

# ESA Broadcast

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**Pouction no.** 00000015

**Title:** Spacelab

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 01/01/1983

**Length:** 26

**Comments:** <plain>An account of the first ESA Spacelab mission, in conjunction with NASA and launched in November, 1983. Highly graphic and suitable for public presentation. Dubbed from film stock.</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGH

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000015

**Title:** Spacelab

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 04/05/1993

**Length:** 26

**Comments:** <plain>An account of the first ESA Spacelab mission, in conjunction with NASA and launched in November, 1983. Highly graphic and suitable for public presentation.</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGH

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000016

**Title:** Touchdown - English

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 18

**Comments** <plain>A review of the scientific achievements of the first Spacelab mission. Technical.</plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGH

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000016

**Title:** Touchdown - Francais

**Type:** Edited Video

**Category:** Documentary, technical

**Language** French

**Production Date** 00/00/00

**Length** 18

**Comments** <plain>A review of the scientific achievements of the first Spacelab mission. Technical.</plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGH

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000018

**Title:** Marecs

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 20

**Comments** <plain>A general summary of ESA's Marecs, maritime satellite communications programme. Suitable for general audiences.</plain>

**Keywords** SATELLITE NAVIGATION,MARECS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000019

**Title:** OTS: Points and Lines

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 00/00/00

**Length:** 10

**Comments:** <plain>A highly graphic presentation of telecommunications specifically OTS. </plain>

**Keywords** TELECOMMUNICATIONS,OTS,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000019

**Title:** OTS: Points and Lines

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 00/00/00

**Length:** 10

**Comments:** <plain>A highly graphic presentation of telecommunications specifically OTS. </plain>

**Keywords** TELECOMMUNICATIONS,OTS,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000020

**Title:** Meteosat - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 17

**Comments:** <plain>A summary of ESA's highly successful METEOSAT programme, a primary meteorological satellite. General treatment of the subject. The end of the film includes a selection of time/lapse images of the Earth taken from Meteosat.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000020

**Title:** Meteosat - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>A summary of ESA's highly successful METEOSAT programme, a primary meteorological satellite. General treatment of the subject. The end of the film includes a selection of time/lapse images of the Earth taken from Meteosat.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000022

**Title:** Giotto - Nederlands

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** Dutch

**Production Date:** 00/00/00

**Length:** 45

**Comments:** <plain>This was produced in collaboration with the BBC's "Horizon" series in the U.K. It details the story of the Halley' Comet, the development of ESA's Giotto programme, the excitement of the final encounter and the scientific results of the mission. Technical but suitable for general audiences.</plain>

**Keywords:** SPACE SCIENCE,GIOTTO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000022

**Title:** Giotto - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1986

**Length:** 45

**Comments:** <plain>This was produced in collaboration with the BBC's "Horizon" series in the U.K. It details the story of the Halley' Comet, the development of ESA's Giotto programme, the excitement of the final encounter and the scientific results of the mission. Technical but suitable for general audiences.</plain>

**Keywords:** SPACE SCIENCE,GIOTTO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000024

**Title:** European Communication Satellites

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1991

**Length:** 14

**Comments:** <plain>In 1978, ESA launched the Orbital Test Satellite, OTS. 10 years later it still functions and its progenitors, the ECS series, now dominate telecommunications in Europe. This film looks at OTS,ECS, Olympus and the trends of the future.</plain>

**Keywords:** TELECOMMUNICATIONS,OTS,OLYMPUS,ECS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000025

**Title:** Ariane 4

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 01/01/1988

**Length** 24

**Comments** <plain>A highly visual presentation of Ariane 401, prepared for and distributed to television. The film looks at CSG as it will be at the end of the century, the principle features of Ariane 4, its mission from launch to satellite deployment, the first roll-out and the first launch (day launch).</plain>

**Keywords** LAUNCHERS,CSG KOUROU,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000025

**Title:** Ariane 4

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 00/00/00

**Length** 24

**Comments** <plain>A highly visual presentation of Ariane 401, prepared for and distributed to television. The film looks at CSG as it will be at the end of the century, the principle features of Ariane 4, its mission from launch to satellite deployment, the first roll-out and the first launch.</plain>

**Keywords** LAUNCHERS,CSG KOUROU,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - Deutsch

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 01/01/1989

**Length** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning the dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - Espanol

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Spanish

**Production Date** 01/01/1989

**Length** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning the dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - Nederlands

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Dutch

**Production Date** 01/01/1989

**Length** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning ther dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1989

**Length** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning ther dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - Danish

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Danish

**Production Date** 01/01/1989

**Length** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning ther dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - Italiano

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 01/01/1989

**Length** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning ther dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1989

**Length:** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning ther dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning ther dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000026

**Title:** Hipparcos: The Star Machine - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>The story of ESA's High Precision Parallax Collection Satellite, an astronomy mission to determine the precise position of over 100,000 stars. This mission is expected to provide crucial information concerning the dynamics of the Milky Way galaxy. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000034

**Title:** Redu: A Two-Way Business - Flemish

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Flemish

**Production Date** 00/00/00

**Length** 10

**Comments** <plain>A brief summary of ESA's primary telecommunications tracking station, at Redu in Belgium.</plain>

**Keywords** TELECOMMUNICATIONS,GROUND STATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000034

**Title:** Redu: A Two-Way Business - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/24/1988

**Length** 10

**Comments** <plain>A brief summary of ESA's primary telecommunications tracking station, at Redu in Belgium.</plain>

**Keywords** TELECOMMUNICATIONS,GROUND STATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000034

**Title:** Redu: A Two-Way Business - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 10

**Comments:** <plain>A brief summary of ESA's primary telecommunications tracking station, at Redu in Belgium.</plain>

**Keywords** TELECOMMUNICATIONS,GROUND STATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000037

**Title:** Exosat And The Violent Universe - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 04/28/1989

**Length:** 29

**Comments:** <plain>A presentation of ESA's Exosat mission to explore the X-ray universe. Summarises the major discoveries and look at the overall contribution that Exosat made to astrophysics and science in general.</plain>

**Keywords** SPACE SCIENCE,EXOSAT

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000037

**Title:** Exosat And The Violent Universe - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 29

**Comments:** <plain>A presentation of ESA's Exosat mission to explore the X-ray universe. Summarises the major discoveries and look at the overall contribution that Exosat made to astrophysics and science in general.</plain>

**Keywords** SPACE SCIENCE,EXOSAT

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000039

**Title:** Hubble Space Telescope - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1990

**Length** 28

**Comments** <plain>The story of the joint ESA/NASA mission Hubble Space Telescope, launched in April 1990 and designed to probe the far reaches of the optical Universe.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000039

**Title:** Hubble Space Telescope - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 09/05/1989

**Length** 28

**Comments** <plain>The story of the joint ESA/NASA mission Hubble Space Telescope, launched in April 1990 and designed to probe the far reaches of the optical Universe.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000039

**Title:** Hubble Space Telescope - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 02/16/1990

**Length** 28

**Comments** <plain>The story of the joint ESA/NASA mission Hubble Space Telescope, launched in April 1990 and designed to probe the far reaches of the optical Universe.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000039

**Title:** Hubble Space Telescope - Deutsch.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 01/01/1990

**Length** 28

**Comments** <plain>The story of the joint ESA/NASA mission Hubble Space Telescope, launched in April 1990 and designed to probe the far reaches of the optical Universe.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000039

**Title:** Hubble Space Telescope - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1990

**Length** 28

**Comments** <plain>The story of the joint ESA/NASA mission Hubble Space Telescope, launched in April 1990 and designed to probe the far reaches of the optical Universe.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000043

**Title:** Ulysses: The Movie - Deutsch

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** German

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>A presentation of the cooperative ESA/NASA mission to send a spacecraft out of the elliptic plane and over an unexplored pole of the Sun. No spacecraft has ever ventured so far from the elliptical plane. To do so requires Ulysses to travel first to Jupiter, using the gravitational pull of the giant planet to propel itself towards the southern solar pole.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000043

**Title:** Ulysses: The Movie - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>A presentation of the cooperative ESA/NASA mission to send a spacecraft out of the elliptic plane and over an unexplored pole of the Sun. No spacecraft has ever ventured so far from the elliptical plane. To do so requires Ulysses to travel first to Jupiter, using the gravitational pull of the giant planet to propel itself towards the southern solar pole.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000043

**Title:** Ulysses: The Movie - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>A presentation of the cooperative ESA/NASA mission to send a spacecraft out of the elliptic plane and over an unexplored pole of the Sun. No spacecraft has ever ventured so far from the elliptical plane. To do so requires Ulysses to travel first to Jupiter, using the gravitational pull of the giant planet to propel itself towards the southern solar pole.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000043

**Title:** Ulysses: The Movie - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>A presentation of the cooperative ESA/NASA mission to send a spacecraft out of the elliptic plane and over an unexplored pole of the Sun. No spacecraft has ever ventured so far from the elliptical plane. To do so requires Ulysses to travel first to Jupiter, using the gravitational pull of the giant planet to propel itself towards the southern solar pole.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 0000046

**Title:** Earthviews

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** English

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>Containing: "Earth, The Movie", a digitally-animated demonstration of cloud dynamics and topography utilising microwave and IR satellite data; "Rotating Earth Section" animation; "Solid Model Earth" animation; "See-Through Model"; and "Meteosat Images", a collection of images utilizing data from ESA's Meteosat programme, a primary meteorological satellite. </plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000046

**Title:** Earthviews

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** English

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>Containing: "Earth, The Movie", a digitally-animated demonstration of cloud dynamics and topography utilising microwave and IR satellite data; "Rotating Earth Section" animation; "Solid Model Earth" animation; "See-Through Model"; and "Meteosat Images", a collection of images utilizing data from ESA's Meteosat programme, a primary meteorological satellite. </plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000047

**Title:** ERS-1: Index '89.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/01/1989

**Length** 41

**Comments** <plain>Base material covering ERS-1 and related environmental material. </plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000047

**Title:** ERS-1: Index '89.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/26/1989

**Length** 41

**Comments** <plain>Base material covering ERS-1 and related environmental material. </plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000049

**Title:** MOP 1: Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/01/1989

**Length** 31

**Comments** <plain>Base material covering Meteosat and related meteorological material. Includes animation sequence of launch, stage separation and satellite deployment.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000049

**Title:** MOP 1: Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/01/1989

**Length** 31

**Comments** <plain>Base material covering Meteosat and related meteorological material. Includes animation sequence of launch, stage separation and satellite deployment.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000050

**Title:** ESA: Silver Jubilee.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 04/01/1989

**Length** 58

**Comments** <plain>Images relevant to the 1989 ESA Jubilee (1964-1989 arranged as: formation of ESRO and ELDO in 1964; jubilee backgrounds and logos; sounding rockets and early experiments from the 1960s; the first satellites; 1967 launch of the first ESRO satellite; development and launch of ELDO's Europa rocket; development and construction of ESTEC; ESA HQ, Paris; ESDAC in Darmstadt, Germany; ESA telecommunications from OTS to ECS to Olympus; ESA tracking station at REDU, Belgium; development of Meteosat; ERS; development and launch of Ariane 4; Spacelab- development and launch, first mission; Exosat; Giotto; Hipparcos; Ulysses; ESA council meeting at Hague, 1987; ESA/NASA Hubble Space Telescope; the future- Ariane 5, Hermes, Columbus, Huygens.</plain>

**Keywords** HISTORICAL MATERIAL,ESRO,ESA GENERAL,ELDO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000051

**Title:** Ulysses index

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length** 20

**Comments** <plain>The joint ESA/NASA mission Ulysses was launched by the American shuttle Discovery on October 6th, 1990 (STS-41). This video index covers base material concerning Ulysses and its mission to explore the poles of the sun. Sequences are organised as follows: "Ulysses is coming", short music clip; graphic portrayal of Ulysses as a spin-stabilized deep space probe; Ulysses circumnavigates the poles of the Sun; Ulysses leaves the elliptic plane, using Jupiter's gravitational field as a slingshot; various clips of Ulysses' manufacture; an American shuttle launch, animatic to illustrate payload deployment; various footage of the Sun from the Earth and from space; the poles of the Sun are different to other regions- Sun diagram, photograph of Sun north pole; heliosphere diagram, with temperature distributic annotations; magnetic map, x-ray map, radio map and astronomical footage to illustrate the influence of coronal holes on the solar wind; diagram of earth's magnetic field to illustrate how it acts like a huge dynamo; solar wind representation, images of the Northern Lights; time lapse film and diagram to illustrate how the rotation of the Sun "winds up" its magnetic field, and how this is less pronounced at the poles; diagrammatic representation of circumnavigating the poles; Ulysses' data received by NASA's deep space tracking network - diagrams and footage to illustrate telecom link, with setting sun to end.</plain>

**Keywords** ULYSSES,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000052

**Title:** Exosat Index

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** M/E only

**Production Date** 00/00/00

**Length** 61

**Comments** <plain>Base material covering Exosat and related material concerning astrophysics. Includes the film "Exosat And The Violent Universe".</plain>

**Keywords** SPACE SCIENCE,EXOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000053

**Title:** MOP-2: Index

**Type:** Video Index

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 02/01/1991

**Length:** 49

**Comments** <plain>Base material covering MOP-2, the second spacecraft of the Eumetsat Meteosat operational programme, launched by Ariane 4 on 21/3/91. </plain>

**Keywords** WEATHER SATELLITES,METEOSAT,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000054

**Title:** ERS-1: Index 1991.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 01/01/1991

**Length:** 59

**Comments** <plain>A series of images which relate to ESA's ERS-1 remote sensing satellite, Ischeduled to be launched on May 3rd 1991. Including: general animation sequences of ERS-1; the satellite's near polar orbit; launch, stage separations and ground station tracking; critical deployment sequences; SAR (Synthetic Aperture Radar) reveals deforestation in the Amazon; cartographic applications; water temperature, including Chernobyl; use of the ATSR (Along Track Scanning Radiometer); ERS-1's Wind Scatterometer; monitoring sea and ice levels with the Radar Altimeter; the global network ground stations; ESRIN data processing centre; environmental knowledge gained through ERS-1; melting ice caps; the exchange of energy between sea and the atmosphere; satellite construction; and a quick guide to the instruments onboard ERS-1.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000056

**Title:** Hubble Newsflash

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 01/01/1991

**Length:** 6

**Comments:** <plain>A series of images and interviews to illustrate the advances in space observation made possible by the Hubble Space Telescope. The contemporary problem of spherical aberration is discussed.</plain>

**Keywords:** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000058

**Title:** ESA Compilation

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 33

**Comments:** <plain>A compilation containing: "Music Of The Spheres" - a music clip showing images related to various ESA projects; "Building For The Future" - an animation sequence with voiceover, to illustrate some of Europe's plans for the future in space; "Passage To The Stars" - a look at why ESA exists, its history and its future.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000061

**Title:** ESA: Television Index.

**Type:** Video Index

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 46

**Comments:** <plain>Containing: ESA generique; ESA H.Q., Paris, council meeting in progress; ESTEC; ESOC; ESRIN; logo for council meeting at ministerial level, various languages; Earth horizon and moon; Ariane 3 launch sequence; Ariane 3 launch profile and satellite deployment; evolution of Ariane launcher designs; Ariane 5/Hermes launch; Exosat spin test and control room; simulation of star death; simulation of black hole; ISO; IUE - Supernova 1987a and spacecraft; Hipparcos; Ulysses; Soho; Giotto; ERS - Earth observation, practical applications; Olympus; Prosat; Marecs; Meteosat; Columbus; Hermes; Spacelab; The Future - what do today's children think?</plain>

**Keywords** HISTORICAL MATERIAL,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000061

**Title:** Television Index

**Type:** Video Index

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 46

**Comments:** <plain>Containing: ESA generique; ESA H.Q., Paris, council meeting in progress; ESTEC; ESOC; ESRIN; logo for council meeting at ministerial level, various languages; Earth horizon and moon; Ariane 3 launch sequence; Ariane 3 launch profile and satellite deployment; evolution of Ariane launcher designs; Ariane 5/Hermes launch; Exosat spin test and control room; simulation of star death; simulation of black hole; ISO; IUE - Supernova 1987a and spacecraft; Hipparcos; Ulysses; Soho; Giotto; ERS - Earth observation, practical applications; Olympus; Prosat; Marecs; Meteosat; Columbus; Hermes; Spacelab; The Future - what do today's children think?</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000061

**Title:** Television Index

**Type:** Video Index

**Category:** Documentary, general public

**Language** English

**Production Date** 11/23/1987

**Length:** 46

**Comments** <plain>Containing: ESA generique; ESA H.Q., Paris, council meeting in progress; ESTEC; ESOC; ESRIN; logo for council meeting at ministerial level, various languages; Earth horizon and moon; Ariane 3 launch sequence; Ariane 3 launch profile and satellite deployment; evolution of Ariane launcher designs; Ariane 5/Hermes launch; Exosat spin test and control room; simulation of star death; simulation of black hole; ISO; IUE - Supernova 1987a and spacecraft; Hipparcos; Ulysses; Soho; Giotto; ERS - Earth observation, practical applications; Olympus; Prosat; Marecs; Meteosat; Columbus; Hermes; Spacelab; The Future - what do today's children think?</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000068

**Title:** Ulysses: Journey To The Sun - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 10

**Comments** <plain>A shortened version of the film "Ulysses: The Movie."</plain>

**Keywords** ULYSSES,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 0000068

**Title:** Ulysses: Journey To The Sun - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 10

**Comments** <plain>A shortened version of the film "Ulysses: The Movie."</plain>

**Keywords** ULYSSES,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000069

**Title:** Exploring The Universe - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1989

**Length** 21

**Comments** <plain>An overview of the future directions of ESA's space science programme, Produced in recognition of the 25th anniversary of the Agency. Topics are explained in detail. The documentary covers stellar science; investigating the Sun, including solar oscillations; the structure of comets; and proposed missions Xmm, First, Rosetta, Cluster and SOHO.</plain>

**Keywords** SPACE SCIENCE,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000069

**Title:** Exploring The Universe - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1989

**Length:** 21

**Comments** <plain>An overview of the future directions of ESA's space science programme, produced in recognition of the 25th anniversary of the Agency. Topics are explained in detail. The documentary covers stellar science; investigating the Sun, including solar oscillations; the structure of comets; and proposed missions Xmm, First, Rosetta, Cluster and SOHO.</plain>

**Keywords** SPACE SCIENCE,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000070

**Title:** Ten Years After

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1988

**Length:** 15

**Comments** <plain>A short history of ESA's Orbital Test Satellite (OTS). Launched in 1978, OTS was Europe's first multinational telecommunications satellite. At the time of this film's production, OTS had been in orbit for 10 years. Subsequent telecommunications systems are outlined.</plain>

**Keywords** TELECOMMUNICATIONS,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000072

**Title:** ERS-1: First Images.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 09/01/1991

**Length** 9

**Comments** <plain>A selection of the first ERS-1 SAR images, acquired on the 27th July 1991. Also includes unique Meteosat image of the total eclipse of the Sun, as seen by satellite.</plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT,

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000072

**Title:** ERS-1: First Images.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 09/01/1991

**Length** 9

**Comments** <plain>A selection of the first ERS-1 SAR images, acquired on the 27th July 1991. Also includes unique Meteosat image of the total eclipse of the Sun, as seen by satellite.</plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT,

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000073

**Title:** Neptune Encounter Highlights

**Type:** Video Index

**Category:** screen output

**Language** M/E only

**Production Date** 00/00/00

**Length:** 33

**Comments:** <plain>A series of images generated by NASA's Jet Production Lab (JPL). Incorporating: viewing Neptune from Triton for 36 hours; diving over Neptune to meet Triton; catching Triton in its retrograde orbit; encountering Neptune magnetopause; close encounters with Neptune and Triton; views from Earth of Voyager's occultation; Neptune and Triton encounters; computer graphics lab and Voyager mission planning; nodding image motion compensation; Neptune rotation movie; Neptune approach movie; Neptune weather movies; Neptune global rotation movie; Voyager- r time images; Voyager at Triton; Neptune's rings; Neptune's atmospheric features; Neptune's atmosphere in motion; Voyager 2- Triton's active plumes.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,JPL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000075

**Title:** Olympus: Back From The Dead.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 08/01/1992

**Length:** 15

**Comments:** <plain>An account of the rescue of Olympus in 1991, following a loss of the Earth acquisition signal.</plain>

**Keywords** SPACE SCIENCE,OLYMPUS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000075

**Title:** Olympus: Back From The Dead - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 08/01/1992

**Length** 15

**Comments** <plain>A fascinating account of the rescue of Olympus in 1991, following a loss of the Earth acquisition signal.</plain>

**Keywords** SPACE SCIENCE,OLYMPUS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000075

**Title:** Olympus: Back From The Dead - Deutsch

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 08/01/1992

**Length** 15

**Comments** <plain>A fascinating account of the rescue of Olympus in 1991, following a loss of the Earth acquisition signal.</plain>

**Keywords** SPACE SCIENCE,OLYMPUS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000076

**Title:** ERS-1: Early Results.

**Type:** Video Index

**Category:** screen output

**Language** M/E only

**Production Date** 10/01/1991

**Length** 29

**Comments** <plain>A selection of early ERS-1 data processed by ESRIN Includes ATSR images of Kuwait, 3D flybys, etc.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000078

**Title:** ESA Index November '91.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 11/04/1991

**Length** 59

**Comments** <plain>A summary of ESA's history. Chapters arranged as follows: -ESRO (European Space Research organisation) and ELDO (European Launcher Development Organisation) 1964 establishment, stills; -early scientific research sounding rockets: manufacture and testing of components, launches, telemetric processing; -the first satellites: manufacture and testing, various images; - the first ESRO satellite, launched by an American Scout launcher in 1967; manufacture and launch of ELDO's Europa from Woomera, Australia; -development and construction of the European Space Research and TechnologyCentre (ESTEC) in Noordwick, the Netherlands; -ESA headquarters, Paris, France; -the European Operations Centre, ESOC, Darmstadt, Germany; -ESRIN, the European Space Research Institute, Frascati, Italy; -ESA telecommunications from the first Orbital Test Satellite, OTS through the European Communications Satellite System, ECS, to Olympus; -ESA's tracking station, REDU, Belgium; -development and operation of Meteosat, Europe's primary meteorological data satellite; -ERS-1, ESA's Remote Sensing Satellite, launched in 1991. This was the first major European environmental satellite. Environmental monitoring, lengthy sequence of related images; -Ariane, first launched in 1979, operating from French Guiana; -Spacelab, the world's first re-usable space laboratory, built by ESA and fi launched in 1983; the basis for the US space station Freedom and for Europe's manned space missions, contained in the Columbus programme; -Giotto, the ESA satellite which encountered Halley's Comet in 1986; - Hipparcos (High Precision Parallax Collecting Satellite), launched in 1989, the first astrometrical satellite ever built; Ulysses, launched in October 1990 - its mission to travel to Jupiter, using its gravitational pull to continue to the Sun; - the Hubble Space Telescope, including some of the images produced; -ESA's long term space programme - Hermes, Ariane 5 and the Columbus free-flying laboratory; -ESA budget and expenditure statistics. <br></plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000079

**Title:** ISO: Uncovering The Hidden Universe - Deutsch.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 09/01/1995

**Length** 13

**Comments** <plain>An explanation of the science and technology behind ESA's Infrared Space Observatory (ISO), due to be launched in 1993. The film includes: an explanation of how the infrared waveband is useful in astronomy; manufacture, design and functioning of the payload and service modules; and the purpose of the four scientific instruments. Interviewees as follows: Chris Jewell, ESA; Martin Kessler, ESA; Albert Seidel, ESA; Pierre Collet, Aerospatiale.</plain>

**Keywords** SPACE SCIENCE,ISO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000079

**Title:** ISO: Uncovering The Hidden Universe - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>An explanation of the science and technology behind ESA's Infrared Space Observatory (ISO), due to be launched in 1993. The film includes: an explanation of how the infrared waveband is useful in astronomy; manufacture, design and functioning of the payload and service modules; and the purpose of the four scientific instruments. Interviewees as follows: Chris Jewell, ESA; Martin Kessler, ESA; Albert Seidel, ESA; Pierre Collet, Aerospatiale.</plain>

**Keywords** SPACE SCIENCE,ISO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000079

**Title:** ISO: Uncovering The Hidden Universe - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1991

**Length** 13

**Comments** <plain>An explanation of the science and technology behind ESA's Infrared Space Observatory (ISO), due to be launched in 1993. The film includes: an explanation of how the infrared waveband is useful in astronomy; manufacture, design and functioning of the payload and service modules; and the purpose of the four scientific instruments. Interviewees as follows: Chris Jewell, ESA; Martin Kessler, ESA; Albert Seidel, ESA; Pierre Collet, Aerospatiale.</plain>

**Keywords** SPACE SCIENCE,ISO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000081

**Title:** Hipparcos: First Results

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 12/20/1991

**Length** 14

**Comments** <plain>A short, clear update of the progress of ESA's astrometrical mission, Hipparcos (High Precision Parallax-Collecting Satellite), launched on the 8th August 1989. Images include the launch sequence, and numerous graphics; interviews throughout with Dr. Michael Perryman, Hipparcos project scientist.</plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 0000085

**Title:** Meteosat: A Brief History Of Weather - French.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 10/01/1992

**Length** 11

**Comments** <plain>The acquisition of meteorological data is fundamental to both ESA and weather forecasting. But where did the Earth's weather come from in the first place, and why does this matter? An odd question- with a fascinating answer.</plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000085

**Title:** Meteosat: A Brief History Of Weather - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/01/1992

**Length** 11

**Comments** <plain>The acquisition of meteorological data is fundamental to both ESA and weather forecasting. But where did the Earth's weather come from in the first place, and why does this matter? An odd question- with a fascinating answer.</plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000085

**Title:** Meteosat: A Brief History Of Weather - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/01/1992

**Length** 11

**Comments** <plain>The acquisition of meteorological data is fundamental to both ESA and weather forecasting. But where did the Earth's weather come from in the first place, and why does this matter? An odd question - with a fascinating answer.</plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000085

**Title:** Meteosat: A Brief History Of Weather - Deutsch.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 10/01/1992

**Length** 11

**Comments** <plain>The acquisition of meteorological data is fundamental to both ESA and weather forecasting. But where did the Earth's weather come from in the first place, and why does this matter? An odd question- with a fascinating answer.</plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000085

**Title:** Meteosat: A Brief History Of Weather - Italiano.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 10/01/1992

**Length** 11

**Comments** <plain>The acquisition of meteorological data is fundamental to both ESA and weather forecasting. But where did the Earth's weather come from in the first place, and why does this matter? An odd question- with a fascinating answer.</plain>

**Keywords** WEATHER SATELLITES,REMOTE SENSING,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000086

**Title:** ISO: Uncovering The Hidden Universe - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 09/01/1995

**Length** 13

**Comments** <plain>An explanation of the science and technology behind ESA's Infrared Space Observatory, due to be launched in 1993. The film includes: an explanation of how the infra-red waveband is useful in astronomy; manufacture, design and functioning of the payload and service modules; and the purpose of the four scientific instruments. Interviewees as follows: Chris Jewell, ESA; Martin Kessler, ESA; Albert Seidel, ESA; Pierre Collet, Aerospatiale.</plain>

**Keywords** SPACE SCIENCE,ISO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000091

**Title:** Argosies Of Magic sails: Ariane V-50 - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 04/01/1992

**Length:** 29

**Comments** <plain>Produced to mark the 50th flight of Ariane, this programme goes behind the scenes to talk to some of the many people who make Europe's highly successful launch work.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000091

**Title:** Argosies Of Magic sails: Ariane V-50 - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 04/01/1992

**Length:** 29

**Comments** <plain>Produced to mark the 50th flight of Ariane, this programme goes behind the scenes to talk to some of the many people who make Europe's highly successful launch work.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000091

**Title:** Argosies Of Magic sails: Ariane V-50 - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 04/01/1992

**Length:** 29

**Comments** <plain>Produced to mark the 50th flight of Ariane, this programme goes behind the scenes to talk to some of the many people who make Europe's highly successful launch work.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 0000091

**Title:** Argosies Of Magic sails: Ariane V-50 - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 04/01/1992

**Length:** 29

**Comments** <plain>Produced to mark the 50th flight of Ariane, this programme goes behind the scenes to talk to some of the many people who make Europe's highly successful launch work.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000092

**Title:** Giotto (GEM)

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length:** 31

**Comments:** <plain>A re-examination of Giotto's 1986 encounter with the comet Halley, leading to an account of thge Giotto Extended Mission (GEM)- the encounter with the comet Grigg-Skjellerup in 1992.</plain>

**Keywords** SPACE SCIENCE,GIOTTO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000095

**Title:** IML-1: International Microgravity Laboratory

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length:** 16

**Comments:** <plain>A short summary of the ESA/NASA IML-1 mission.The science of microgravity and why it matters. Interview with ESA astronaut Ulf Merbold. Biroack included on the mission.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000095

**Title:** IML-1: International Microgravity Laboratory.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length** 16

**Comments** <plain>A short summary of the ESA/NASA IML-1 mission.The science of microgravity and why it matters. Interview with ESA astronaut Ulf Merbold.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000095

**Title:** IML-1: International Microgravity Laboratory

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length** 16

**Comments** <plain>A short summary of the ESA/NASA IML-1 mission.The science of microgravity and why it matters. Interview with ESA astronaut Ulf Merbold.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000095

**Title:** IML-1: International Microgravity Laboratory

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length** 16

**Comments** <plain>A short summary of the ESA/NASA IML-1 mission.The science of microgravity and why it matters. Interview with ESA astronaut Ulf Merbold. Biroack included on the mission.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000096

**Title:** ESA Index: Infinite Spheres.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length:** 55

**Comments** <plain>A complete summary of ESA, from the early days through to the end of 1992. NO COPYRIGHT AGREEMENT OBTAINED ON MUSIC SOUNDTRACK. NO DUBS ALLOWED - WORKING DUB IN ARCHIVE.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000096

**Title:** ESA Index: Infinite Spheres

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 10/01/1992

**Length:** 55

**Comments** <plain>A complete summary of ESA, from the early days through to the end of 1992. NO COPYRIGHT AGREEMENT ON MUSIC SOUNDTRACK. DO NOT REMOVE FROM ARCHIVE.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 0000096

**Title:** ESA Index: Infinite Spheres.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 10/01/1992

**Length:** 55

**Comments** <plain>A complete summary of ESA, from the early days through to the end of 1992. NO COPYRIGHT AGREEMENT OBTAINED FOR MUSIC SOUNDTRACK. DO NOT REMOVE FROM ARCHIVE.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000098

**Title:** Mars And The Pyramids Of Elysium - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1993

**Length:** 16

**Comments** <plain>Mars, the mysterious red planet, has attracted wide public interest for over a century. This wide-ranging documentary includes NASA Mariner 4 images of Mars from 1965, the mystique of the pyramids and fluvial erosion channels, and the potential of a European contribution to a manned Mars mission. There is a lengthy animation section outlining some future possibilities.</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000098

**Title:** Mars And The Pyramids Of Elysium - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1993

**Length:** 16

**Comments** <plain>Mars, the mysterious red planet, has attracted wide public interest for over a century. This wide-ranging documentary includes NASA Mariner 4 images of Mars from 1965, the mystique of the pyramids and fluvial erosion channels, and the potential of a European contribution to a manned Mars mission. There is a lengthy animation section outlining some future possibilities.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000098

**Title:** Mars And The Pyramids Of Elysium - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1993

**Length:** 0

**Comments** <plain>Mars, the mysterious red planet, has attracted wide public interest for over a century. This wide-ranging documentary includes NASA Mariner 4 images of Mars from 1965, the mystique of the pyramids and fluvial erosion channels, and the potential of a European contribution to a manned Mars mission. There is a lengthy animation section outlining some future possibilities.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000098

**Title:** Mars And The Pyramids Of Elysium - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 16

**Comments** <plain>Mars, the mysterious red planet, has attracted wide public interest for over a century. This wide-ranging documentary includes NASA Mariner 4 images of Mars from 1965, the mystique of the pyramids and fluvial erosion channels, and the potential of a European contribution to a manned Mars mission. There is a lengthy animation section outlining some future possibilities.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000098

**Title:** Mars And The Pyramids Of Elysium - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1993

**Length:** 16

**Comments** <plain>Mars, the mysterious red planet, has attracted wide public interest for over a century. This wide-ranging documentary includes NASA Mariner 4 images of Mars from 1965, the mystique of the pyramids and fluvial erosion channels, and the potential of a European contribution to a manned Mars mission. There is a lengthy animation section outlining some future possibilities.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000099

**Title:** Hubble Space Telescope: Update Index

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 33

**Comments:** <plain>A summary of the joint ESA/NASA mission Hubble Space Telescope, starting with the Discovery launch in 1988. The index includes newflashes, interviews, animations and astronomical images. The advantages of astronomy in space are explained, as are technical specifications of the mission.</plain>

**Keywords:** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000102

**Title:** Ulysses: Encounter With Jupiter

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length:** 5

**Comments:** <plain>A summary of the joint ESA/NASA Ulysses expedition to the polar regions of the Sun. Starting with the Discovery shuttle launch on October 6, 1990, the mission will utilize the gravitational field of Jupiter, investigating the Jovian magnetosphere in the process.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE,NASA GENERAL,JPL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000103

**Title:** Crystal Voyager - Deutsch

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 05/05/1993

**Length:** 17

**Comments** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since this time, monitoring ice has been regarded as very important and extremely difficult. This programme demonstrates the ice monitoring capabilities of ERS-1, following the voyage of "L'Astrolabe" through the North-East Passage across the top of Russia. The programme also looks at environmental research in the polar worlds. </plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000103

**Title:** Crystal Voyager - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 05/05/1993

**Length:** 17

**Comments** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since this time, monitoring ice has been regarded as very important and extremely difficult. This programme demonstrates the ice monitoring capabilities of ERS-1, following the voyage of "L'Astrolabe" through the North-East Passage across the top of Russia. The programme also looks at environmental research in the polar worlds. </plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000103

**Title:** Crystal Voyager - Italiano

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 05/05/1993

**Length:** 17

**Comments** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since this time, monitoring ice has been regarded as very important and extremely difficult. This programme demonstrates the ice monitoring capabilities of ERS-1, following the voyage of "L'Astrolabe" through the North-East Passage across the top of Russia. The programme also looks at environmental research in the polar worlds. </plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000103

**Title:** Crystal Voyager - Espanol

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Spanish

**Production Date** 05/05/1993

**Length:** 17

**Comments** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since this time, monitoring ice has been regarded as very important and extremely difficult. This programme demonstrates the ice monitoring capabilities of ERS-1, following the voyage of "L'Astrolabe" through the North-East Passage across the top of Russia. The programme also looks at environmental research in the polar worlds. </plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000103

**Title:** Crystal Voyager - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 05/05/1993

**Length:** 17

**Comments:** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since this time, monitoring ice has been regarded as very important and extremely difficult. This programme demonstrates the ice monitoring capabilities of ERS-1, following the voyage of "L'Astrolabe" through the North-East Passage across the top of Russia. The programme also looks at environmental research in the polar worlds. </plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000104

**Title:** On Our Way To Space

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>ESA astronaut training montage, interspersed with graphic sequences.</plain>

**Keywords:** MANNED SPACEFLIGHT,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000104

**Title:** On Our Way To Space

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain>ESA astronaut training montage, interspersed with graphic sequences.</plain>

**Keywords** MANNED SPACEFLIGHT,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000108

**Title:** Dice Space Link

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1993

**Length:** 34

**Comments:** <plain>A presentation of Dice, the ESA video conferencing system. How it works, what it can be used for, and footage of the 1991 video conference experiment with the Russian space station, MIR.</plain>

**Keywords** TELECOMMUNICATIONS,SPACE STATIONS,RKA,MANN

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000108

**Title:** Dice Space Link

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1993

**Length:** 34

**Comments:** <plain>A presentation of Dice, the ESA video conferencing system. How it works, what it can be used for, and footage of the 1991 video conference experiment with the Russian space station, MIR.</plain>

**Keywords** TELECOMMUNICATIONS,SPACE STATIONS,RKA,MANN

**Shotlist** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00000109

**Title:** CSG (Centre Spatial Guyanais)

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length:** 7

**Comments** <plain>A short film which provides some background on "Europe's spaceport" and outlines the production and export of Ariane launcher systems.</plain>

**Keywords** LAUNCHERS,CSG KOUROU,ARIANE 5,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000110

**Title:** ERS-1: Calibration And Validation.

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 04/26/1993

**Length:** 23

**Comments** <plain>A technical account of the complex calibration and validation of the instruments onboard ESA's ERS-1 environmental satellite.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000110

**Title:** ERS-1: Calibration And Validation.

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 04/26/1993

**Length:** 23

**Comments** <plain>A technical account of the complex calibration and validation of the instruments onboard ESA's ERS-1 environmental satellite.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000116

**Title:** Eureka Compilation - Deutsch.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 01/01/1992

**Length** 56

**Comments** <plain>A compilation of: "Gravity's Rainbow"; "Stargate"; "Engineering Experiments"; "Deployment"; and "Overview". GRAVITY'S RAINBOW: an introduction to the concept of microgravity; the history and future of microgravity research and its usefulness to mankind. STARGATE: an overview of astrometry and solar observation; the Eureka (EUropean REtrievable CArrier) mission and the usefulness of studying the solar environment from outside the Earth's atmosphere. ENGINEERING EXPERIMENTS: The Eureka mission; a detailed look at the technological research it will facilitate. DEPLOYMENT: A technical, highly graphic look at how Eureka will be launched, operated and monitored. OV ERVIEW: a summary of Eureka - its conception, construction, manufacture, and the microgravit and solar environment experiments it will carry. </plain>

**Keywords** MANNED SPACEFLIGHT,EURECA,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000116

**Title:** Eureka Compilation - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1992

**Length** 56

**Comments** <plain>A compilation of: "Gravity's Rainbow"; "Stargate"; "Engineering Experiments"; "Deployment"; and "Overview".  
GRAVITY'S RAINBOW: an introduction to the concept of microgravity; the history and future of microgravity research and its usefulness to mankind. STARGATE: an overview of astrometry and solar observation; the Eureka (EUropean REtrievable CArrier) mission and the usefulness of studying the solar environment from outside the Earth's atmosphere.  
ENGINEERING EXPERIMENTS: The Eureka mission; a detailed look at the technological research it will facilitate.  
DEPLOYMENT: A technical, highly graphic look at how Eureka will be launched, operated and monitored. OV ERVIEW: a summary of Eureka - its conception, construction, manufacture, and the microgravit and solar environment experiments it will carry. </plain>

**Keywords** MANNED SPACEFLIGHT,EURECA,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000116

**Title:** Eureka Compilation - Italiano.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 01/01/1992

**Length** 56

**Comments** <plain>A compilation of: "Gravity's Rainbow"; "Stargate"; "Engineering Experiments"; "Deployment"; and "Overview". GRAVITY'S RAINBOW: an introduction to the concept of microgravity; the history and future of microgravity research and its usefulness to mankind. STARGATE: an overview of astrometry and solar observation; the Eureka (EUropean REtrievable CArrier) mission and the usefulness of studying the solar environment from outside the Earth's atmosphere. ENGINEERING EXPERIMENTS: The Eureka mission; a detailed look at the technological research it will facilitate. DEPLOYMENT: A technical, highly graphic look at how Eureka will be launched, operated and monitored. OV ERVIEW: a summary of Eureka - its conception, construction, manufacture, and the microgravit and solar environment experiments it will carry. </plain>

**Keywords** MANNED SPACEFLIGHT,EURECA,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000116

**Title:** Eureka Compilation - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1992

**Length** 56

**Comments** <plain>A compilation of: "Gravity's Rainbow"; "Stargate"; "Engineering Experiments"; "Deployment"; and "Overview". GRAVITY'S RAINBOW: an introduction to the concept of microgravity; the history and future of microgravity research and its usefulness to mankind. STARGATE: an overview of astrometry and solar observation; the Eureka (EUropean REtrievable CArrier) mission and the usefulness of studying the solar environment from outside the Earth's atmosphere. ENGINEERING EXPERIMENTS: The Eureka mission; a detailed look at the technological research it will facilitate. DEPLOYMENT: A technical, highly graphic look at how Eureka will be launched, operated and monitored. OVERVIEW: a summary of Eureka - its conception, construction, manufacture, and the microgravit and solar environment experiments it will carry. </plain>

**Keywords** MANNED SPACEFLIGHT,EURECA,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000120

**Title:** Eureka Index

**Type:** Video Index

**Category:** Documentary, general public

**Language:** Various

**Production Date:** 01/01/1993

**Length:** 68

**Comments:** <plain>Material related to ESA's EUropean REtrievable CArrier- Eureka. Containing: "The Zero-G Machine"; "Gravity's Rainbow"; "The Overview"; "The Engineering Experiments"; "Stargate"; and "Claude Nicollier, Astronaut". THE ZERO-G MACHINE: a series of graphics which illustrate the function of Eureka. GRAVITY'S RAINBOW: an introduction to the concept of microgravity, th history and future of microgravity research, and its usefulness to mankind. OV ERVIEW: a summary of Eureka - its conception, construction, manufacture and the microgravity and solar environment experiments it will carry. STARGATE an overview of astrometry and solar observation; the Eureka mission and the usefulness of studying the solar environme from outside the Earth's atmosphere. CLAUDE NICOLLIER, ASTRONAUT: a profile, with footage of the ESA astronaut's space career and interviews; Nicollier's part in the Eureka mission.</plain>

**Keywords:** MANNED SPACEFLIGHT,EURECA,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000120

**Title:** Eureka Index

**Type:** Video Index

**Category:** Documentary, general public

**Language:** Various

**Production Date:** 00/00/00

**Length:** 68

**Comments:** <plain>Material related to ESA's EUropean REtrievable CArrier- Eureka. Containing: "The Zero-G Machine"; "Gravity's Rainbow"; "The Overview"; "The Engineering Experiments"; "Stargate"; and "Claude Nicollier, Astronaut". THE ZERO-G MACHINE: a series of graphics which illustrate the function of Eureka. GRAVITY'S RAINBOW: an introduction to the concept of microgravity, th history and future of microgravity research, and its usefulness to mankind. OV ERVIEW: a summary of Eureka - its conception, construction, manufacture and the microgravity and solar environment experiments it will carry. STARGATE: an overview of astrometry and solar observation; the Eureka mission and the usefulness of studying the solar environment from outside the Earth's atmosphere. CLAUDE NICOLLIER, ASTRONAUT: a profile, with footage of the ESA astronaut's space career and interviews; Nicollier's part in the Eureka mission.</plain>

**Keywords:** MANNED SPACEFLIGHT,EURECA,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000123

**Title:** D1 Mission: Post-Flight Mission Presentation

**Type:** Edited Video

**Category:** VNR

**Language:** No Sound

**Production Date:** 00/00/00

**Length:** 24

**Comments:** <plain>Footage concerned with NASA's D1 space shuttle mission. Includes astronauts prior to flight, shuttle launch, interior shots of shuttle in orbit, effects of weightlessness, shuttle landing and astronauts disembarking.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000124

**Title:** Space Debris Animations

**Type:** Video Index

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/03/1997

**Length:** 8

**Comments:** <plain>Graphics for the Second European Conference On Space Debris, ESOC, Darmstadt, Germany, 17-19 March 1997. Animations as follows: distribution of catalogued objects; break-up of an object in LEO; increase of objects in GEO/GTO, 1964-96; motion of objects in GEO; impact damage of material returned from space.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000124

**Title:** Space Debris Animations

**Type:** Video Index

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/03/1997

**Length:** 10

**Comments:** <plain>Graphics for the Second European Conference On Space Debris, ESOC, Darmstadt, Germany, 17-19 March 1997. Animations as follows: distribution of catalogued objects; break-up of an object in LEO; increase of objects in GEO/GTO, 1964-96; motion of objects in GEO; impact damage of material returned from space.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00000127

**Title:** Exemsi '92

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** Various

**Production Date:** 00/00/00

**Length:** 14

**Comments:** <plain>A summary of the Exemsi '92 Space Station Simulation, covering a long duration stay of sixty days in isolation (September 7th to November 6th 1992) to 6/11 92). The video covers the entire period of the campaign and illustrates facilities, living on board, physiological experimen homeosat and telemedicine. </plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000128

**Title:** HST - Solar Array Replacement

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 6

**Comments:** <plain>In 1990 a joint ESA/NASA mission launched the Hubble Space Telescope, the most powerful astronomical tool ever built. This short film covers the scheduled Endeavour space shuttle project (December 1993) to link with the telescope in orbit. Several spacewalks are planned with the purpose of servicing key components, including replacing one of the solar arrays used to power the telescope. Servicing requirements and design solutions are outlined. </plain>

**Keywords:** HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000129

**Title:** Eureka Retrieval

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 21

**Comments:** <plain>EURECA - the EUropean REtrievable CARRIER- was launched by the American space shuttle Atlantis on 31st July 1992. It is scheduled to be retrieved on 21st May, 1993. This tape provides a summary of operations for the mission, launch recordings and an outline of the science involved.</plain>

**Keywords:** SPACE SCIENCE,SHUTTLE MISSIONS,MANNED SPACE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000134

**Title:** Ariane: 1973-93

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Various

**Production Date** 01/07/1993

**Length:** 17

**Comments:** <plain>The Ariane programme began in Brussels in 1973. Since then it has succeeded beyond anyone's expectations despite many difficulties. But what do Europeans, the people who have paid for Ariane, think of it? In this programme, Europeans from four countries give their views on Ariane and space in general.</plain>

**Keywords:** LAUNCHERS,ARIANE 5,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000135

**Title:** STS-55: The D2 Project

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>The Spacelab D2 mission (STS-55), utilising the American space shuttle Columbia, is due to be launched on April 26th, 1993. This documentary gives an overview of the preparation for the D2 project and, although some details are technical, it is suitable for a general audience. 16 of the 90 or so scheduled experiments have originated from DLR (the German Aerospace Research Establishment). The film details some of the in-flight research to be performed. Sequences are arranged as follows -the 1985 D1 mission, photographs of the Earth; -PROJECT MANAGEMENT- preparation of experiments, the space operations centre, construction of hardware; -ASTRONAUTS: profiles of the nine astronauts (including backup) taking part in the mission. ESA astronauts involved were Schlegel and Walter; - TRAINING: DLR microgravity simulation, astronaut training, diving, parabolic flights, experiment instruction and training, cycling respirometer experiment; -EXPERIMENTS: in-flight footage, fluid globules in microgravity, weightless crew conduct experiments, view of Earth from space (ecological studies), astronomical photographs, radiobiological studies, numerous micrographs, materials science- manufacture of homogenous alloys, growth of improved semi-conductors; holographic documentation of experiments; catalogue of Earth experiments which can be augmented by the D2 project- amorphous solidification of molten metal (supercooling), glucose tolerance testing (simulated diabetes in astronauts due to impaired glucose metabolism); preparation of particle trap, to assess genetic damage caused by space particles; radiobiological experiments to assess damaging properties of UV radiation; effects of microgravity on the vestibular organs of tadpoles, as part of 'space sickness' research; cartography, digital stereo pictures of the Earth, ecological measurements, multispectral high-resolution data processing to monitor specific vegetation, agricultural maps; the ROTEX robot, translation into the manufacturing industry; remote area satellite-grappling with Earth in the background; - MISSION CONTROL: DLR space operations centre, interview with D2 commander; ground crew in control centre, data analysis, satellite receiver, space sunset, quote from Ulf Merbold: "We want to push back a little further the frontier between the known and the unknown."</plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000135

**Title:** STS-55: The D2 Project

**Type:** Edited Video

**Category:** documentary: general public

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>The Spacelab D2 mission (STS-55), utilising the American space shuttle Columbia, is due to be launched on April 26th, 1993. This documentary gives an overview of the preparation for the D2 project and, although some details are technical, it is suitable for a general audience. 16 of the 90 or so scheduled experiments have originated from DLR (the German Aerospace Research Establishment), and the film details some of the in-flight research to be performed. Sequences are arranged as follows: -the 1985 D1 mission, photographs of the Earth; -PROJECT MANAGEMENT- preparation of experiments, the space operations centre, construction of hardware; -ASTRONAUTS: profiles of the nine astronauts (including backup) taking part in the mission. ESA astronauts involved were Schlegel and Walter; -TRAINING: DLR microgravity simulation, astronaut training, diving, parabolic flights, experiment instruction and training, cycling respirometer experiment; -EXPERIMENTS: in-flight footage, fluid globules in microgravity, weightless crew conduct experiments, view of Earth from space (ecological studies) astronomical photographs, radiobiological studies, numerous micrographs, materials science- manufacture of homogeneous alloys, growth of improved semi-conductors; holographic documentation of experiments; catalogue of Earth experiments which can be augmented by the D2 project- amorphous solidification of molten metal (supercooling), glucose tolerance testing (simulated diabetes in astronauts due to impaired glucose metabolism); preparation of particle trap, to assess genetic damage caused by space particles; radiobiological experiments to assess damaging properties of UV radiation; effects of microgravity on the vestibular organs of tadpoles, as part of 'space sickness' research; cartography, digital stereo pictures of the Earth, ecological measurements, multispectral high-resolution data processing to monitor specific vegetation, agricultural maps; the ROTEX robot, translation into the manufacturing industry; remote astronaut grappling with Earth in the background; -MISSION CONTROL: DLR space operations centre, interview with D2 commander; ground crew in control centre; data analysis, satellite receiver, space sunset, quote from Ulf Merbold: "We want to push back a little further the frontier between the known and the unknown."</plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000136

**Title:** To Last A Lifetime

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 14

**Comments:** <plain>A fairly detailed look at the layout, components and operations of the ESTEC (ESA Space Technology and Research Centre) Test Facilities Centre. Includes footage o satellite construction.</plain>

**Keywords** ESTEC,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000136

**Title:** To Last A Lifetime

**Type:** Edited Video

**Category:** documentary: technical

**Language** English

**Production Date** 00/00/00

**Length:** 14

**Comments:** <plain>A fairly detailed look at the layout, components and operations of the ESTEC (ESA Space Technology and Research Centre) Test Facilities Centre. Includes footage o satellite construction.</plain>

**Keywords** ESTEC,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000138

**Title:** Hubble Space Telescope: Index 1

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 23

**Comments** <plain>A summary of the scientific results of the Hubble Space Telescope, including an explanation of the spherical aberration of the primary mirror and the solutions under review.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000138

**Title:** Hubble Space Telescope: Index 1

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 23

**Comments** <plain>A summary of the scientific results of the Hubble Space Telescope, including an explanation of the spherical aberration of the primary mirror and the solutions under review.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000138

**Title:** Hubble Space Telescope: Index 1

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length** 23

**Comments** <plain>A summary of the scientific results of the Hubble Space Telescope, including an explanation of the spherical aberration of the primary mirror and the solutions under review.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000139

**Title:** Hubble Space Telescope: Index 1 with time code

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 00/00/00

**Length** 23

**Comments** <plain>A summary of the scientific results of the Hubble Space Telescope including an explanation of the spherical aberration of the primary mirror and the solutions under review. With visible timer.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000139

**Title:** Hubble Space Telescope: Index 1 with time code

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** No Sound

**Production Date** 00/00/00

**Length:** 23

**Comments:** <plain>A summary of the scientific results of the Hubble Space Telescope including an explanation of the spherical aberration of the primary mirror and the solutions under review. With visible timer. </plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000141

**Title:** Meoeosat 6 Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Various

**Production Date** 00/00/00

**Length:** 25

**Comments:** <plain>A film which describes the Meteosat programme, run by ESA, Eumetsat and Aerospatiale. So far, five Meteosat satellites have been launched, with Meteosat 6 scheduled for launch in late 1993. These weather satellites operate in a geostationary orbit, and are controlled from ESA's operations centre (ESOC) in Germany. Weather data is received from nearly 2000 sites worldwide; the importance of the programme is illustrated by the prediction of Hurricane Andrew in 1992, helping to minimize loss of life. Contributions to improvements of weather forecasts are outlined, as are the economic benefits of weather forecasting. </plain>

**Keywords** WEATHER SATELLITES,METEOSAT,GROUND STATION

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000141

**Title:** Meteosat 6 Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 00/00/00

**Length:** 25

**Comments:** <plain>A film which describes the Meteosat programme, run by ESA, Eumetsat and Aerospatiale. So far, five Meteosat satellites have been launched, with Meteosat 6 scheduled for launch in late 1993. These weather satellites operate in a geostationary orbit, and are controlled from ESA's operation centre (ESOC) in Germany. Weather data is received from nearly 2000 sites worldwide; the importance of the programme is illustrated by the prediction of Hurricane Andrew in 1992, helping to minimize loss of life. Contributions to improvements of weather forecasts are outlined, as are economic benefits of weather forecasting. </plain>

**Keywords:** WEATHER SATELLITES,METEOSAT,GROUND STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000141

**Title:** Meteosat 6 Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 00/00/00

**Length:** 25

**Comments:** <plain>A film which describes the Meteosat programme, run by ESA, Eumetsat and Aerospatiale. So far, five Meteosat satellites have been launched, with Meteosat 6 scheduled for launch in late 1993. These weather satellites operate in a geostationary orbit, and are controlled from ESA's operation centre (ESOC) in Germany. Weather data is received from nearly 2000 sites worldwide; the importance of the programme is illustrated by the prediction of Hurricane Andrew in 1992, helping to minimize loss of life. Contributions to improvements of weather forecasts are outlined, as are economic benefits of weather forecasting. </plain>

**Keywords:** WEATHER SATELLITES,METEOSAT,GROUND STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000143

**Title:** ESA Effects

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 00/00/00

**Length** 20

**Comments** <plain>A series of animations, incorporating: ERS-1; Hipparcos; Hubble Space Telescope; Meteosat; and Olympus.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000144

**Title:** Hubble Space Telescope: Index 2

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>Material relating to the joint ESA/NASA mission Hubble Space Telescope, including a general overview, the service mission and an interview with the ESA astronaut Claude Nicollier.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000144

**Title:** Hubble Space Telescope: Index 2

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 21

**Comments** <plain>Material relating to the joint ESA/NASA mission Hubble Space Telescope, including a general overview, the service mission and an interview with the ESA astronaut Claude Nicollier.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000144

**Title:** Hubble Space Telescope: Index 2

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 21

**Comments** <plain>Material relating to the joint ESA/NASA mission Hubble Space Telescope, including a general overview, the service mission and an interview with the ESA astronaut Claude Nicollier.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000145

**Title:** Hubble Space Telescope: Index 2 with time code

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 21

**Comments:** <plain>Material related to the joint ESA/NASA mission Hubble Space Telescope, containing a general overview, th service mission and an interview with astronaut Claude Nicollier. With visible timer.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000145

**Title:** Hubble Space Telescope: Index 2 with time code

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 21

**Comments:** <plain>Material related to the joint ESA/NASA mission Hubble Space Telescope, containing a general overview, th service mission and an interview with astronaut Claude Nicollier. With visible timer.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000148

**Title:** Orbital Connections - Francais

**Type:** Edited Video

**Category:** Documentary, technical

**Language** M/E only

**Production Date** 00/00/00

**Length:** 10

**Comments** <plain>A film which details the relay of information from the NASA space shuttle to Europe, via the Olympus telecommunications satellite, during the recovery of ESA's Eureka.</plain>

**Keywords** TELECOMMUNICATIONS,OLYMPUS,MANNED SPACEFLI

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000148

**Title:** Orbital Connections - English

**Type:** Edited Video

**Category:** Documentary, technical

**Language** M/E only

**Production Date** 00/00/00

**Length:** 10

**Comments** <plain>A film which details the relay of information from the NASA space shuttle to Europe, via the Olympus telecommunications satellite, during the recovery of ESA's Eureka.</plain>

**Keywords** TELECOMMUNICATIONS,OLYMPUS,MANNED SPACEFLI

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000150

**Title:** Hubble Space Telescope: Index 3

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 11/18/1993

**Length** 29

**Comments** <plain>A collection of material concerning the joint ESA/NASA mission Hubble Space Telescope (HST), which includes: a compilation entitled "The Success Story"; a file of HST and computer images (Io, Pluto and Charon, Orion Nebula, formation of solar systems, Nova Cygni, Supernova 1987a, Cygnus loop, NGC 4261, Andromeda Galaxy, NGC 5194, M87, gravitational lensing in AC114, Globe/Matte/Star bgnd, Einstein's Cross, storm on Saturn, gravitational lensing); and a file of HST and related computer animations.  
</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000150

**Title:** Hubble Space Telescope: Index 3

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 11/18/1993

**Length** 29

**Comments** <plain>A collection of material concerning the joint ESA/NASA mission Hubble Space Telescope (HST), which includes: a compilation entitled "The Success Story"; a file of HST and computer images (Io, Pluto and Charon, Orion Nebula, formation of solar systems, Nova Cygni, Supernova 1987a, Cygnus loop, NGC 4261, Andromeda Galaxy, NGC 5194, M87, gravitational lensing in AC114, Globe/Matte/Star bgnd, Einstein's Cross, storm on Saturn, gravitational lensing); and a file of HST and related computer animations.  
</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000151

**Title:** Hubble Space Telescope: Index 3 with time code

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length** 29

**Comments** <plain>A collection of material concerning the joint ESA/NASA mission Hubble Space Telescope (HST), which includes: a compilation entitled "The Success Story"; a file of HST and computer images (Io, Pluto and Charon, Orion Nebula, formation of solar systems, Nova Cygni, Supernova 1987a, Cygnus loop, NGC 4261, Andromeda Galaxy, NGC 5194, M87, Gravitational lensing in AC114, Globe/Matte/Star bgnd, Einstein's Cross, storm on Saturn, gravitational lensing); and a file of HST and related computer animations. With visible timer.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000151

**Title:** Hubble Space Telescope: Index 3 with time code

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length** 29

**Comments** <plain>A collection of material concerning the joint ESA/NASA mission Hubble Space Telescope (HST), which includes: a compilation entitled "The Success Story"; a file of HST and computer images (Io, Pluto and Charon, Orion Nebula, formation of solar systems, Nova Cygni, Supernova 1987a, Cygnus loop, NGC 4261, Andromeda Galaxy, NGC 5194, M87, Gravitational lensing in AC114, Globe/Matte/Star bgnd, Einstein's Cross, storm on Saturn, gravitational lensing); and a file of HST and related computer animations. With visible timer.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000157

**Title:** Hubble Space Telescope: Euro Space Master

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** Various

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>Material concerned with the functioning of the Hubble Space Telescope after the 1993 mission to adjust its functioning. With a series of astronomical images and interviews, the improvement in visual clarity is discussed. Footage of the Endeavour mission, including maintenance spacewalks, is also included.</plain>

**Keywords:** SPACE SCIENCE,MANNED SPACEFLIGHT,HUBBLE SPA

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000158

**Title:** ESA: Laserdisc 1994

**Type:** Video Index

**Category:** Music clip

**Language:** M/E only

**Production Date:** 01/01/1994

**Length:** 44

**Comments:** <plain>The Laserdisc was formulated as an educational tool made available at the Noordwijk Space Exhibition in 1994. It contains 12 short films, all set to music, which utilise short clips and graphics to summarise a particular topic. Titles are as follows: ERS-1; Giotto; Hubble Space Telescope (Endeavour mission); Ulysses; Points And Lines (telecommunications); Olympus; Marecs; Meteosat 6; Ariane ESTEC; Eureka, The Zero-G Machine.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000158

**Title:** ESA: Laserdisc 1994

**Type:** Video Index

**Category:** Music clip

**Language** M/E only

**Production Date** 01/01/1994

**Length:** 44

**Comments** <plain>The Laserdisc was formulated as an educational tool made available at the Noordwijk Space Exhibition in 1994. It contains 12 short films, all set to music, which utilise short clips and graphics to summarise a particular topic. Titles are as follows: ERS-1; Giotto; Hubble Space Telescope (Endeavour mission); Ulysses; Points And Lines (telecommunications); Olympus; Marecs; Meteosat 6; Ariane ESTEC; Eureka, The Zero-G Machine.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000162

**Title:** Euromir Sample

**Type:** Edited Video

**Category:** Music clip

**Language** Various

**Production Date** 01/08/1994

**Length:** 7

**Comments** <plain>A short film which covers the joint ESA/Russian space mission, Euromir '94. Dr. Ulf Merbold is to travel to the space station Mir on October 3rd, 1994 and spend 30 days there conducting a series of experiments. Consisting a series of clips regarding the Russian space station as an example of images produced by ESA's in-flight camera system.</plain>

**Keywords** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000162

**Title:** Euromir Sample

**Type:** Edited Video

**Category:** Music clip

**Language:** Various

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>A short film which covers the joint ESA/Russian space mission, Euromir '94. Dr. Ulf Merbold is to travel to the space station Mir on October 3rd, 1994 and spend 30 days there conducting a series of experiments. Consisting a series of clips regarding the Russian space station as an example of images produced by ESA's in-flight camera system.</plain>

**Keywords:** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000163

**Title:** Euromir '94 Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 08/26/1994

**Length:** 62

**Comments:** <plain>The joint ESA/Russian Euromir mission is scheduled for 3/10/94. Dr. Ulf Merbold will travel to the Mir space static and spend a total of 30 days conducting experiments in microgravity. This index starts with a series of images relat to the project, both historical and contemporary; the structu of Mir is described, followed by a music clip.The next chapters are organised under the following topics: launch o original MIR core mudule, February 86; astronauts are transported to Mir by Soyuz TM vehicles, launched from Baikonur; maintenance and repair of the space station; the complicated, self-sufficient structure of Mir, onboard experimentation; operation from TsUP mission control centre near Moscow; central Asian launch site of Baikonur, in star contrast to Western launch sites; ESA astronauts are recruited to conduct scientific experiments, and udergo Russian training; interview with Dr Ulf Merbold, the first European astronaut to go into space; interview with ESA astronaut Pedro Duque; interview with ESA astronaut Chris Fuglesang; interview with ESA astronaut Thomas Reiter; sample virtual reality models of Mir. Captions throughout in English, German, French, Italian and Russian. </plain>

**Keywords:** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000163

**Title:** Euromir '94 Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 08/26/1994

**Length:** 62

**Comments:** <plain>The joint ESA/Russian Euromir mission is scheduled for 3/10/94. Dr. Ulf Merbold will travel to the Mir space station and spend a total of 30 days conducting experiments in microgravity. This index starts with a series of images related to the project, both historical and contemporary; the structure of Mir is described, followed by a music clip. The next chapters are organised under the following topics: launch of original MIR core module, February 86; astronauts are transported to Mir by Soyuz TM vehicles, launched from Baikonur; maintenance and repair of the space station; the complicated, self-sufficient structure of Mir, onboard experimentation; operation from TsUP mission control centre near Moscow; central Asian launch site of Baikonur, in stark contrast to Western launch sites; ESA astronauts are recruited to conduct scientific experiments, and undergo Russian training; interview with Dr Ulf Merbold, the first European astronaut to go into space; interview with ESA astronaut Pedro Duque; interview with ESA astronaut Chris Fuglesang; interview with ESA astronaut Thomas Reiter; sample virtual reality models of Mir. Captions throughout in English, German, French, Italian and Russian. </plain>

**Keywords:** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000164

**Title:** Collision: Comet Shoemaker Levy 9.

**Type:** Edited Video

**Category:** VNR

**Language:** ME only

**Production Date:** 06/01/1994

**Length:** 7

**Comments:** <plain>A short VNR concerning the collision Between Comet Shoemaker-Levy 9 and the planet Jupiter.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000164

**Title:** Collision: Comet Shoemaker Levy 9

**Type:** Edited Video

**Category:** VNR

**Language**

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain>A short VNR concerning the collision Between Come Shoemaker-Levy 9 and the planet Jupiter.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000166

**Title:** Ulysses: New Adventures

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 29

**Comments:** <plain>A general presentation of the NASA/ESA mission Ulysses. Using mainly computer animations, this programme explains how and why the space probe takes measurement over the poles of the Sun. Together with a summary of the involvement of the different partners, the programme, since was written as Ulysses passed by the southern pole of the Sun, also shows the first results. Technical, but the first chapters are suitable for a general audience. The film is organised into the following format: OVERVIEW: general presentation of the mission. Why, how. Video released as Ulysses passed by the southern pole of the Sun. 1: WHY ULYSSES EXPLORES THE EMPIRE OF THE SUN. Flying over the poles. Mystery of the influence of the Sun on Earth Images of the Sun and scientists working. Compared to Soho or Cluster, Ulysses is the furthest mission. 2: A MULTINATIONAL MISSION. Partners for construction, collection of information, presentation of the instruments with the role of each partner. 3: THE LONG JOURNEY INTO THE UNKNOWN. 4: ULYSSES ESCAPES FROM THE STORMS OF THE SUN. Some results...the ballerina skirt. 5: THE SUN'S BATTLE WITH THE COSMIC RAYS. The breeze from the stars. To the poles and beyond. Summary of magnetism of the Sun, cosmic rays. The aim and after. Conclusions on the mission: deeper understanding on how the Sun rules the surrounding space.</plain>

**Keywords:** ULYSSES,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000167

**Title:** Moon Programme

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** English and French

**Production Date** 01/01/1994

**Length:** 18

**Comments** <plain>Roll A: Interviews with different officials on why and how Europe should invest in a mission to the moon. The programme also provides an explanation of the different steps taken before the lunar human outpost. Roll B: Images of the Americans walking on the moon, unedited versions of the above interviews and images of the moon. N.B. In the French version, interviews are in English and are not translated. </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000167

**Title:** Moon Programme

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** English and French

**Production Date** 01/01/1994

**Length:** 18

**Comments** <plain>Roll A: Interviews with different officials on why and how Europe should invest in a mission to the moon. The programme also provides an explanation of the different steps taken before the lunar human outpost. Roll B: Images of the Americans walking on the moon, unedited versions of the above interviews and images of the moon. N.B. In the French version, interviews are in English and are not translated. </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000168

**Title:** Shock Of Space - Italiano.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Deutsch.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Espanol.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Spanish

**Production Date** 01/01/1994

**Length** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Suedois.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Swedish

**Production Date** 01/01/1994

**Length** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1994

**Length** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Eureka, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Norvegien.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Norweigan

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Nederland.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Dutch

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000168

**Title:** Shock Of Space - Nederland.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Dutch

**Production Date** 01/01/1994

**Length** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Italiano.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 01/01/1994

**Length** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Deutsch.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 01/01/1994

**Length** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Espanol.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Spanish

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000168

**Title:** Shock Of Space - Espanol.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Spanish

**Production Date** 01/01/1994

**Length:** 24

**Comments** <plain>A general presentation of ESA, its organisation, history, programmes (Ariane, satellites, probes, Euromir, Hubble, technology transfer) and establishments.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000171

**Title:** Ulysses: South Polar Passage Of The Sun: press highlights

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 09/16/1994

**Length** 23

**Comments** <plain>Highlights of Ulysses' planned 1994 voyage to the south pole of the Sun, followed by a press conference with principal scientists involved. Speakers: Richard Marsden, project scientist; Edgar Page, science coordinator JPL; Pro Simpson, Univ.Chicago; Ed Smith, project scientist. </plain>

**Keywords** ULYSSES,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000171

**Title:** Ulysses: South Polar Passage Of The Sun: press highlights

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 23

**Comments** <plain>Highlights of Ulysses' planned 1994 voyage to the south pole of the Sun, followed by a press conference with principal scientists involved. Speakers: Richard Marsden, project scientist; Edgar Page, science coordinator JPL; Pro Simpson, Univ.Chicago; Ed Smith, project scientist. </plain>

**Keywords** ULYSSES,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000175

**Title:** Atmospheric Re-entry Demonstrator

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length:** 6

**Comments:** <plain>A short presentation of the Automatic Re-entry Demonstrator (ARD), to be launched by Ariane 5.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000175

**Title:** Atmospheric Re-entry Demonstrator

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length:** 6

**Comments:** <plain>A short presentation of the Automatic Re-entry Demonstrator (ARD), to be launched by Ariane 5.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000178

**Title:** ESA: The Way We Are.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 3

**Comments:** <plain>A very short, stylish presentation of ESA.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000178

**Title:** ESA: The Way We Are.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1995

**Length:** 3

**Comments:** <plain>A very short, stylish presentation of ESA.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000179

**Title:** Ulysses: Video News Release

**Type:** Video Index

**Category:** VNR

**Language** Various

**Production Date** 09/19/1994

**Length:** 16

**Comments:** <plain>Material covering Ulysses' mission to the south pole the Sun. Scientific discoveries concerning the Sun's magne field are outlined.</plain>

**Keywords** ULYSSES,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000180

**Title:** ERS-1: Index '94.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 01/12/1994

**Length:** 45

**Comments:** <plain>A general presentation of ERS-1, the most sophisticated Earth observation satellite ever developed for Europe; its instruments, capabilities and applications. Suitable for a general audience.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000180

**Title:** ERS-1: Index '94.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 12/01/1994

**Length:** 45

**Comments** <plain>A general presentation of ERS-1, the most sophisticated Earth observation satellite ever developed for Europe; its instruments, capabilities and applications. Suitable for a general audience.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000181

**Title:** EVA Space Suit 2000

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1994

**Length:** 11

**Comments** <plain>A short film focussing on the EVA (extravehicular activity) Space Suit 2000. Using the visual examples of EVA during the Hubble servicing and Mir repair missions, the importance of space suit function is highlighted. Development of the joint RKA (Russian Space Agency) and ESA suit is put into a context of increased EVA-hours with the setting-up of the International Space Station. The suit is compared to existing EMU and Orlan designs.</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000181

**Title:** EVA Space Suit 2000: version one

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 11

**Comments** <plain>A short film focussing on the EVA (extravehicular activity) Space Suit 2000. Using the visual examples of EVA during the Hubble servicing and Mir repair missions, the importance of space suit function is highlighted. Development of the joint RKA (Russian Space Agency) and ESA suit is put into a context of increased EVA-hours with the setting-up of the International Space Station. The suit is compared to existing EMU and Orlan designs.</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000183

**Title:** Euromir: Highlights '94

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Natural Sound Only

**Production Date** 01/01/1994

**Length:** 17

**Comments** <plain>A visual summary of the 1994 Euromir mission, undertaken by ESA astronaut Ulf Merbold. </plain>

**Keywords** SPACE STATIONS,RKA,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000183

**Title:** Euromir: Highlights '94

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length:** 17

**Comments:** <plain>A visual summary of the 1994 Euromir mission, undertaken by ESA astronaut Ulf Merbold. </plain>

**Keywords** SPACE STATIONS,RKA,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000184

**Title:** ESA: Pourquoi Nous Sommes La

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1994

**Length:** 3

**Comments:** <plain>A very short, stylish presentation of ESA.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000184

**Title:** ESA: Pourquoi Nous Sommes La

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1994

**Length:** 3

**Comments:** <plain>A very short, stylish presentation of ESA.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000186

**Title:** ERS-2: Index 1995.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** English

**Production Date:** 03/01/1995

**Length:** 29

**Comments:** <plain>A general presentation of ESA's Earth observation satellite ERS-2, with its specific new instrument GOME (Global Ozone Monitoring Experiment) purposely designed to scan the ozone layer. ESA will launch ERS-2 with an Ariane in 1995, building upon the experience and facilities gained with the 1991 satellite ERS-1.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000186

**Title:** ERS-2: Index 1995.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** English

**Production Date:** 03/01/1995

**Length:** 29

**Comments:** <plain>A general presentation of ESA's Earth observation satellite ERS-2, with its specific new instrument GOME (Global Ozone Monitoring Experiment) purposely designed to scan the ozone layer. ESA will launch ERS-2 with an Ariane in 1995, building upon the experience and facilities gained with the 1991 satellite ERS-1.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000187

**Title:** Hubble Space Telescope: Update Index '94

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 02/20/1994

**Length:** 20

**Comments** <plain>An indexed summary of the results obtained from the Hubble Space Telescope. Images include: Gliese 623b, faint red dwarf companion; cartwheel galaxy; planetary nebula NGC 6543; gas disc in nucleus of active galaxy M87; globular cluster NGC 6397, region near core. Interviewees include C Duccio Macchetto, associate director, ESA science programmes; Francesco Paresce, senior astronomer, ESA; Dr. Peter Jakobsen, faint object camera project scientist, ESA. </plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000190

**Title:** Olympus Index.

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 07/01/1989

**Length:** 36

**Comments** <plain>Base material covering Olympus and related communications images.</plain>

**Keywords** TELECOMMUNICATIONS,OLYMPUS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000195

**Title:** Euromir '95 Index

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 08/01/1995

**Length:** 53

**Comments:** <plain>A series of sequences presenting both missions Euromir '94 and Euromir '95, starting with a stylish music clip. This programme introduces the four ESA astronauts Ulf Merbold, Thomas Reiter, Pedro Duque and Christer Fuglesang who took part in the missions on the Russian Mir space station. After Thomas Reiter training with Christer Fuglesang, the programme shows Ulf Merbold's 30-day mission.</plain>

**Keywords:** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000195

**Title:** Euromir '95 Index

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 08/01/1995

**Length:** 53

**Comments:** <plain>A series of sequences presenting both missions Euromir '94 and Euromir '95, starting with a stylish music clip. This programme introduces the four ESA astronauts Ulf Merbold, Thomas Reiter, Pedro Duque and Christer Fuglesang who took part in the missions on the Russian Mir space station. After Thomas Reiter training with Christer Fuglesang, the programme shows Ulf Merbold's 30-day mission.</plain>

**Keywords:** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000196

**Title:** Ariane V72: Video Transmission - ERS-2.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French and English

**Production Date** 04/21/1995

**Length:** 64

**Comments:** <plain>Coverage of the ERS-2 launch (V72) on April 21st, 1995. Containing animation sequences, reasons for producing the satellite, pre-launch footage via a live satellite link-up, the launch itself, and flight monitoring. </plain>

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000197

**Title:** Apollo 11: For All Mankind.

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 01/01/1969

**Length:** 33

**Comments:** <plain>An early documentary which catalogues the NASA Apollo 11 mission to place the first men on the Moon in July 1969.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000197

**Title:** Apollo 11: For All Mankind.

**Type:** Edited Video

**Category:** Interviews

**Language** English

**Production Date** 01/01/1969

**Length:** 33

**Comments:** <plain>An early documentary which catalogues the NASA Apollo 11 mission to place the first men on the Moon in July 1969.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000199

**Title:** EAC Press Conference

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 34

**Comments:** <plain>An edited version of footage from the European Astronaut Centre conference. The speakers focus on the Euromir '95 mission.</plain>

**Keywords:** EUROMIR,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000200

**Title:** International Space Station Alpha

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** ME only

**Production Date:** 06/09/1995

**Length:** 5

**Comments:** <plain>A film which presents the involvement of Europe in the International Space Station Project. It consists basically of a pressurised laboratory, called the Columbus Orbital Facility (COF) and the Automated Transfer Vehicle (ATV) which will be launched by Ariane 5. Sequences show, for example, the station being constructed flight by flight and the arm docking the COF to the station. The International Space Station is called Alpha at the time this film was made. Shots may be summarised as follows: elements of the station being built in a clean room; images of ISSA floating over the Earth; shuttle coming alongside; countdown to the launch of Ariane 5; opening of the shroud, release of ESA's ATV; ATV docking the station; construction of the International Space Station flight by flight; different forms of ATV; ESA's COF; the return of the ATV.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** commercial

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**Pouction no.** 00000200

**Title:** International Space Station Alpha

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 06/09/1995

**Length:** 5

**Comments** <plain>A film which presents the involvement of Europe in the International Space Station Project. It consists basically of a pressurised laboratory, called the Columbus Orbital Facility (COF) and the Automated Transfer Vehicle (ATV) which will be launched by Ariane 5. Sequences show, for example, the station being constructed flight by flight and the arm docking the COF to the station. The International Space Station is called Alpha at the time this film was made. Shots may be summarised as follows: elements of the station being built in a clean room; images of ISSA floating over the Earth; shuttle coming alongside; countdown to the launch of Ariane 5; opening of the shroud, release of ESA's ATV; ATV docking the station; construction of the International Space Station flight by flight; different forms of ATV; ESA's COF; the return of the ATV.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000200

**Title:** International Space Station Alpha

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 06/09/1995

**Length** 5

**Comments** <plain>A film which presents the involvement of Europe in the International Space Station Project. It consists basically of a pressurised laboratory, called the Columbus Orbital Facility (COF) and the Automated Transfer Vehicle (ATV) which will be launched by Ariane 5. Sequences show, for example, the station being constructed flight by flight and the arm docking the COF to the station. The International Space Station is called Alpha at the time this film was made. Shots may be summarised as follows: elements of the station being built in a clean room; images of ISSA floating over the Earth; shuttle coming alongside; countdown to the launch of Ariane 5; opening of the shroud, release of ESA's ATV; ATV docking the station; construction of the International Space Station flight by flight; different forms of ATV; ESA's COF; the return of the ATV.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000201

**Title:** ESA: Three Science Missions 1995 - English/ Francais

**Type:** Edited Video

**Category:** Documentary, technical

**Language** Various

**Production Date** 06/01/1995

**Length** 24

**Comments** <plain>Presentation of the three scientific missions that were to be undertaken in 1995: ISO, Soho and Cluster. With virtual images, this programme also presents an animation of the Ariane 5 launch and release of 4 Cluster satellites, followed by the next missions ( Huygens, XMM, Rosetta). Suitable for a technical audience, but only in a contemporary context.</plain>

**Keywords** SPACE SCIENCE,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000202

**Title:** Ariane 5: Simulation

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>A highly graphic presentation of the preparation for the first Ariane 5 launch.</plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000205

**Title:** Climate Simulations

**Type:** Edited Video

**Category:** Documentary, technical

**Language:** English

**Production Date:** 01/01/1994

**Length:** 19

**Comments:** <plain>Damage to the biosphere can only be monitored, and thus limited, if we can formulate an accurate model of the Earth's climate system. This in-depth documentary provides demonstration of computer modelling to investigate global climate phenomena, along with some predictions arising from such analyses.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000205

**Title:** Climate Simulations

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 19

**Comments** <plain>Damage to the biosphere can only be monitored, and thus limited, if we can formulate an accurate model of the Earth's climate system. This in-depth documentary provides demonstration of computer modelling to investigate global climate phenomena, along with some predictions arising from such analyses. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000211

**Title:** ISO Video Index

**Type:** Video Index

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1995

**Length** 26

**Comments** <plain>A general presentation of ESA's ISO (Infrared Space Observatory). Infrared penetrates dust far more effectively than visible light. Using existing images, especially those taken by IRAS, and animations of the inside of the spacecraft, this programme presents the different aspects of the ISO mission. Technical, but the first chapters are suitable for a general audience. CHAPTER 1: OVERVIEW, EUROPE'S INFRARED SPACE OBSERVATORY. A general presentation of ESA's ISO, explaining how the satellite is made up of various instruments built by each ESA member state. CHAPTER 2: BACKGROUND: UNVEILING THE HIDDEN UNIVERSE. The cool universe; a history of the research and discoveries facilitated by previous astronomical instruments, especially IRAS-1. CHAPTER 3: ENGINEERING ISO, A FLYING FREEZER. An explanation of how the inside of ISO has been built, how it works and why. (-270 degrees C maintained thanks to Sup Fluid Helium). The collection of data with NASA and Japan t have 16 hours of astronomy; animation of ISO circling around the Earth. CHAPTER 4: INSTRUMENTS. EYEING THE COOL SKY. Thanks to virtual pictures, the programme shows the inner process of ISO, i.e. the way rays travel between mirrors before being analyzed. CHAPTER 5: SOLAR SYSTEM. FINGERPRINTING THE PLANETS. Zodiacal and interplanetary dust. Studying Titan, ISO prepares the mission for the ESA probe Huygens. CHAPTER 6: INTERSTELLAR MEDIUM, THE LIFEBLOOD OF THE GALAXY. Star representations, using images collected from terrestrial telescopes and from Hubble. CHAPTER 7: STELLAR PROGRAMME. THE BIRTH OF THE STARS AND PLANETS. Presentation of all ISO's programmes and the expectations of astronomers. CHAPTER 8: BEYOND THE MILKY WAY. ISO and the future of the Universe.</plain>

**Keywords** SPACE SCIENCE,ISO

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000213

**Title:** Soho - English.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1995

**Length** 27

**Comments** <plain>A general presentation of ESA's SOHO (SOlar and Heliospheric Observatory), due to be launched on December 2nd, 1995. Using computer images, this programme explains how and why SOHO will study the Sun's internal structure, how most of the instruments onboard SOHO work, and the mission objectives. There are some colourful animations of the Sun. Technical, but suitable for a general audience. Chapters can be used independently. CHAPTER 1: OVERVIEW - THE SONG OF THE SUN. General presentation of ESA's SOHO, which can analyse the visible interior of the Sun; images of the Sun. Understanding the Earth's climate. Transatlantic programme to study the Sun: 70% ESA and 30% NASA. CHAPTER 2: BACKGROUND - WHY SOHO WILL STARE AT THE SUN. History of human knowledge of the Sun. Instruments that already exist. Questions we still have about the Sun. Recording the sound waves. CHAPTER 3: ENGINEERING THE MISSION - TO THE SUNWARD STATION. Images of the preparation of the European Observatory in the factory. On Lagrangian point where the gravitational tug of Earth and Sun balance. Gazing at the Sun. CHAPTER 4: HELIOSEISMOLOGY - PROBING INSIDE THE SUN. Virtual images of the Sun. The Sun's internal working. Presentation of Golf, one of the instruments, with images of how it works. Virgo, MDI and its camera; images produced. CHAPTER 5: REMOTE SENSING - THE ULTRAVIOLET SUN. EIT, SUMMER, CDS (spectrometers) scanning all squares of the Sun. CHAPTER 6: CORONOGRAPHS - STREAKS AROUND THE SUN. UVCS. What drives the solar wind into the solar system. Lasco coronagraph for visible light. CHAPTER 7: SOLAR PARTICLES - THE WIND FROM THE SUN. Presentation of two instruments, MTOF and Lion, that analyse the electrical and chemical particles in the solar wind. The way they look, and the way they work. CHAPTER 8: HELIOSPHERE. THE SHAPE OF THE BAG. Presentation of the instrument Swan. </plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000213

**Title:** Soho - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1995

**Length** 27

**Comments** <plain>A general presentation of ESA's SOHO (SOlar and Heliospheric Observatory), due to be launched on December 2nd, 1995. Using computer images, this programme explains how and why SOHO will study the Sun's internal structure, how most of the instruments onboard SOHO work, and the mission objectives. There are some colourful animations of the Sun. Technical, but suitable for a general audience. Chapters can be used independently. CHAPTER 1: OVERVIEW - THE SONG OF THE SUN. General presentation of ESA's SOHO, which can analyse the visible interior of the Sun; images of the Sun. Understanding the Earth's climate. Transatlantic programme to study the Sun: 70% ESA and 30% NASA. CHAPTER 2: BACKGROUND - WHY SOHO WILL STARE AT THE SUN. History of human knowledge of the Sun. Instruments that already exist. Questions we still have about the Sun. Recording the sound waves. CHAPTER 3: ENGINEERING THE MISSION - TO THE SUNWARD STATION. Images of the preparation of the European Observatory in the factory. On Lagrangian point where the gravitational tug of Earth and Sun balance. Gazing at the Sun. CHAPTER 4: HELIOSEISMOLOGY - PROBING INSIDE THE SUN. Virtual images of the Sun. The Sun's internal working. Presentation of Golf, one of the instruments, with images of how it works. Virgo, MDI and its camera; images produced. CHAPTER 5: REMOTE SENSING - THE ULTRAVIOLET SUN. EIT, SUMMER, CDS (spectrometers) scanning all squares of the Sun. CHAPTER 6: CORONOGRAPHS - STREAKS AROUND THE SUN. UVCS. What drives the solar wind into the solar system. Lasco coronagraph for visible light. CHAPTER 7: SOLAR PARTICLES - THE WIND FROM THE SUN. Presentation of two instruments, MTOF and Lion, that analyse the electrical and chemical particles in the solar wind. The way they look, and the way they work. CHAPTER 8: HELIOSPHERE. THE SHAPE OF THE BAG. Presentation of the instrument Swan. </plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000213

**Title:** Soho - Francais.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/01/1995

**Length** 27

**Comments** <plain>A general presentation of ESA's SOHO (SOlar and Heliospheric Observatory), due to be launched on December 2nd, 1995. Using computer images, this programme explains how and why SOHO will study the Sun's internal structure, how most of the instruments onboard SOHO work, and the mission objectives. There are some colourful animations of the Sun. Technical, but suitable for a general audience. Chapters can be used independently. CHAPTER 1: OVERVIEW - THE SONG OF THE SUN. General presentation of ESA's SOHO, which can analyse the visible interior of the Sun; images of the Sun. Understanding the Earth's climate. Transatlantic programme to study the Sun: 70% ESA and 30% NASA. CHAPTER 2: BACKGROUND - WHY SOHO WILL STARE AT THE SUN. History of human knowledge of the Sun. Instruments that already exist. Questions we still have about the Sun. Recording the sound waves. CHAPTER 3: ENGINEERING THE MISSION - TO THE SUNWARD STATION. Images of the preparation of the European Observatory in the factory. On Lagrangian point where the gravitational tug of Earth and Sun balance. Gazing at the Sun. CHAPTER 4: HELIOSEISMOLOGY - PROBING INSIDE THE SUN. Virtual images of the Sun. The Sun's internal working. Presentation of Golf, one of the instruments, with images of how it works. Virgo, MDI and its camera; images produced. CHAPTER 5: REMOTE SENSING - THE ULTRAVIOLET SUN. EIT, SUMMER, CDS (spectrometers) scanning all squares of the Sun. CHAPTER 6: CORONOGRAPHS - STREAKS AROUND THE SUN. UVCS. What drives the solar wind into the solar system. Lasco coronagraph for visible light. CHAPTER 7: SOLAR PARTICLES - THE WIND FROM THE SUN. Presentation of two instruments, MTOF and Lion, that analyse the electrical and chemical particles in the solar wind. The way they look, and the way they work. CHAPTER 8: HELIOSPHERE. THE SHAPE OF THE BAG. Presentation of the instrument Swan. </plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000214

**Title:** Le Rapport Isocam

**Type:** Edited Video

**Category:** Documentary, technical

**Language:** French

**Production Date:** 01/01/1992

**Length:** 16

**Comments:** <plain>ESA's Infrared Space Observatory, ISO, is due to be launched on November 17th 1995. This documentary explains the purpose, construction and functioning of ISO using animations and live-action footage.</plain>

**Keywords:** SPACE SCIENCE,ISO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000218

**Title:** ESA Index Image Bank 1995.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** M/E only

**Production Date:** 10/01/1995

**Length:** 52

**Comments:** <plain>Collection of all the main images used in ESA's films, with a quick initial look at key frames from the whole tape. Organised by chapters on the different ESA programmes: Manned Spaceflight, Ariane, Earth Observatio  
Space Science, Telecommunications, The Various ESA Establishments.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000220

**Title:** ESA: Hard Decisions.

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** Natural Sound Only

**Production Date:** 09/15/1995

**Length:** 15

**Comments:** <plain>This video relates to the ministerial conference of October 1995 to decide the future of the European Space Programme. It commences with an index of relevant images Apollo11, Ariane, microgravity research, the International Space Station. The B-roll contains several interviews with German-speaking members of the European public, airing their views about the Space Station.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000220

**Title:** ESA: Hard Decisions.

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** Natural Sound Only

**Production Date:** 09/15/1995

**Length:** 15

**Comments:** <plain>This video relates to the ministerial conference of October 1995 to decide the future of the European Space Programme. It commences with an index of relevant images Apollo11, Ariane, microgravity research, the International Space Station. The B-roll contains several interviews with German-speaking members of the European public, airing their views about the Space Station.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000221

**Title:** Nouvel Elan.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English and German

**Production Date** 01/12/1995

**Length:** 5

**Comments** <plain>An ESA/CNES document with original scenario. The 14 ministers of space take the decision to participate in the International Space Station at the Ministerial Council meeting held in Toulouse in October 1995. </plain>

**Keywords** INTERNATIONAL SPACE STATION,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000221

**Title:** Nouvel Elan

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 12/01/1995

**Length:** 5

**Comments** <plain>An ESA/CNES document with original scenario. The 14 ministers of space take the decision to participate in the International Space Station at the Ministerial Council meeting held in Toulouse in October 1995. </plain>

**Keywords** INTERNATIONAL SPACE STATION,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000222

**Title:** Ariane 5.

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Various

**Production Date** 10/01/1995

**Length:** 10

**Comments** <plain>An ESA/CNES document presenting Ariane 5 and its capacities. This programme also shows the history of the Ariane family, the test campaign, the industrial involvement and all the new possibilities offered by Ariane 5.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000222

**Title:** Ariane 5 - Italiano

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 10/01/1995

**Length:** 10

**Comments** <plain>An ESA/CNES document presenting Ariane 5 and its capacities. This programme also shows the history of the Ariane family, the test campaign, the industrial involvement and all the new possibilities offered by Ariane 5.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000223

**Title:** Arianespace V80 (ISO) - Live Francais/English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French and English

**Production Date** 11/17/1995

**Length:** 68

**Comments** <plain>ESA's Infrared Space Observatory (ISO) was launched by Ariane V80 on Nov 17th, 1995. This video give a summary of the construction, launch and operation of this astronomical satellite. Arranged as follow s: speech by Mr. Xavier Picard, director External Relations, Arianespace; live broadcast from Kourou, French Guiana of launch window, operations room; graphic sequence to show flight path required for satellite deployment, graphics of CSG Kourou, pre-launch assembly, telecommunications link to receive data from ISO, flight information (launcher specifications), ISO specifications, description of satellite's orbit; Arianespace corporate clip; summary of the ISO launch campaign, a description of launch operations, description of ISO's workings by David Dale, Mission Director; operations centre animation clip to show the objective of ISO (with images from previous astronomical missions), animation of the way in which ISO will work; various shots of launcher assembly; cleanroom footage including an interview with Santiago Ximinez de Ferran, ESA Satellite Mission Director; statement from Roger Bonnet, ESA Director Scientific Programmes; annotated frames to show components of launch assembly (cryotechnic arms pump hydrogen and oxygen into main stage of launcher); general control room footage, countdown ignition and night launch; infra-red tracking shot of flight path (with superimposed trace), control room coverage up to deployment, launch replay, announcement by Claude Quievre, Deputy Director General, Arianespace Industrial Affairs; Roger Bonnet, Director Scientific Programmes ESA; live link with Jean-Marie Luton, ESA Directeur General. </plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000224

**Title:** Arianespace V80 (ISO) - Live

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 00/00/00

**Length:** 68

**Comments:** <plain>ESA's Infrared Space Observatory (ISO) was launched by Ariane V80 on Nov 17th, 1995. This video give a summary of the construction, launch and operation of this astronomical satellite. Arranged as follow s: speech by Mr. Xavier Picard, director External Relations, Arianespace; live broadcast from Kourou, French Guiana of launch window, operations room; graphic sequence to show flight path required for satellite deployment, graphics of CSG Kourou, pre-launch assembly, telecommunications link to receive data from ISO, flight information (launcher specifications), ISO specifications, description of satellite's orbit; Arianespace corporate clip; summary of the ISO launch campaign, a description of launch operations, description of ISO's workings by David Dale, Mission Director; operations centre animation clip to show the objective of ISO (with images from previous astronomical missions), animation of the way in which ISO will work; various shots of launcher assembly; cleanroom footage including an interview with Santiago Ximenez de Ferran, ESA Satellite Mission Director; statement from Roger Bonnet, ESA Director Scientific Programmes; annotated frames to show components of launch assembly (cryotechnic arms pump hydrogen and oxygen into main stage of launcher); general control room footage, countdown ignition and night launch; infra-red tracking shot of flight path (with superimposed trace), control room coverage up to deployment, launch replay, announcement by Claude Quievre, Deputy Director General, Arianespace Industrial Affairs; Roger Bonnet, Director Scientific Programmes ESA; live link with Jean-Marie Luton, ESA Directeur General. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000225

**Title:** Arianespace V80: Montage

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 4

**Comments** <plain>Coverage of the ISO launch in November 1995, utilising the Ariane V80 launcher. This short film includes a speech by Roger Bonnet, ESA director of scientific programmes.</plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000225

**Title:** Arianespace V80: Montage

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 4

**Comments** <plain>Coverage of the ISO launch in November 1995, utilising the Ariane V80 launcher. This short film includes a speech by Roger Bonnet, ESA director of scientific programmes.</plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000226

**Title:** Euromir '95: Live from Videopolis

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 11

**Comments** <plain>A montage of the 1995 live link-up, from Eurodisney theme park, with astronauts on the Euromir '95 mission. Includes a section of "comedy" in-flight footage.</plain>

**Keywords** SPACE STATIONS,EUROMIR

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000226

**Title:** Euromir '95: Live from Videopolis

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 11

**Comments** <plain>A montage of the 1995 Eurodisney live link-up with astronauts on the Euromir '95 mission. Includes a section of "comedy" in-flight footage.</plain>

**Keywords** SPACE STATIONS,EUROMIR

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000227

**Title:** Year Of Weather That Was

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 12/01/1995

**Length** 12

**Comments** <plain>This index presents the meteorological satellite Meteosat, launched by ESA in 1981. The programme show weather effects on Earth, for example storms and hurrican and therefore the importance of weather forecasting. Animation sequences are followed with weather spot features.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000227

**Title:** Year Of Weather That Was

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length** 0

**Comments** <plain>This index presents the meteorological satellite Meteosat, launched by ESA in 1981. The programme show weather effects on Earth, for example storms and hurrican and therefore the importance of weather forecasting. Animation sequences are followed with weather spot features.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 0000227

**Title:** Year Of Weather That Was

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 12/01/1995

**Length** 12

**Comments** <plain>This index presents the meteorological satellite Meteosat, launched by ESA in 1981. The programme show weather effects on Earth, for example storms and hurrican and therefore the importance of weather forecasting. Animation sequences are followed with weather spot features.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000230

**Title:** ISO: First Results, Reuters VNR

**Type:** Video Index

**Category**

**Language** Various

**Production Date** 02/13/1996

**Length** 17

**Comments** <plain>An index covering results from ESA's Infrared Space Observatory, launched on November 17th 1995. A brief summary of the first results (February 1996) is given, utilisii relevant clips, graphics and interviews. Dying Star and Colliding Galaxy images are shown. More extensive footage including the launch, is given in the B-roll. </plain>

**Keywords** ISO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000233

**Title:** Ariane 10 Years: rushes

**Type:** Video Index

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1989

**Length:** 35

**Comments:** <plain>A series of powerful images which document the history of the highly successful Ariane series of launchers. Utilising footage recorded primarily at "Europe's Spaceport" French Guiana, the film consists of: ELDO's Europa 2 F2, 1971; construction of spaceport, French Guiana, 1974-77; launcher production in Europe, 1974-78; launcher personne LO1 launch 1979; L6 launch, 1983; L7 launch, 1983; V9 launch, 1984; V10 launch, 1984; V14 launch, 1985; V16 launch, 1986; V17 launch, 1986; V22 launch, 1988; V34 launch, 1989. Launch footage is generally accompanied by relevant stills. 03:46:41:00 ESA logo 03:46:48:00 CNES logo 03:46:56:00 title: ELDO Europa 11 F11, 1971 03:47:03:00 gvs' control room, launcher rolled from assembly tower 03:48:31:00 gvs' launch 03:49:52:00 title: French Guiana, 1974-1977 03:49:57:00 gvs' construction of Centre Spatial Guyanis 03:54:59:00 Europe 1974-1978 03:55:02:00 gvs' construction and testing of Ariane 1 rocket engine 03:56:27:00 gvs' Ariane 1 rocket assembly and test firing 03:59:06:00 title: French Guiana 1979 03:59:10:00 gvs' Ariane 1 on launchpad, payload bay integration 04:03:16:00 title: LO1 Launch Aborted 04:03:21:00 ls Ariane 1 on launchpad, smoke from exhaust 04:03:44:00 gvs' control room, Ariane 1 on launchpad 04:05:11:00 var stills of Ariane 1 team 04:07:35:00 heli tra s' Ariane 1 on launchpad 04:08:09:00 var s' Ariane 1 launch 04:10:49:00 title: French Guiana 1983, L6 04:10:53:00 ESA/CNES L6 poster 04:11:12:00 mls rocket, launch 04:11:50:00 title: French Guiana, 1983, L7 04:11:48:00 cs w ith pan up L7 poster 04:12:07:00 cs w ith pan up Intelsat cleanroom still 04:12:18:00 mls L7 rocket, night launch 04:13:02:00 title: French Guiana, 1984, V9 04:13:06:00 still of ms Spacenet satellite to r, payload fairing to l 04:13:17:00 cs w ith pan u Ariane L7 poster 04:13:28:00 cs Ariane L7 night launch 04:14:01:00 vls Ariane L7 night launch 04:14:28:00 title: French Guiana, 1984, V10 04:14:32:00 stills Ariane V10 04:14:54:00 ls Ariane V10 launch; <br>s launch with pan up 04:15:53:00 title: French Guiana, 1985 V14 04:15:57:00 stills, Giotto 04:16:19:00 ls V14 launch, trees in f/g 04:16:48:00 French Guiana, 1986, V16 04:16:52:00 stills, V16 04:17:16:00 mls Ariane V14 night launch 04:17:40:00 title: French Guiana, 1986, V17 04:17:44:00 heli mls V17 on launchpad 04:17:55:00 Ariane V17 poster 04:18:07:00 var s' V17 night launch 04:18:47:00 French Guiana, 1988, V22 04:18:50:00 Ariane 401 poster 04:19:01:00 var s' Ariane 401 launch [incl view through construction tower, h with pan up, booster POV of jetisson] 04:20:06:00 title:



French Guiana, 1989, V34 04:20:11:00 V34 cleanroom  
still, poster 04:20:34:00 mls V34 night  
launch 04:21:07:00 ls V34 night  
launch 04:21:59:00 end</plain>

**Keywords** LAUNCHERS,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000236

**Title:** Cluster - Francais

**Type:** Edited Video

**Category** Documentary, technical

**Language** French

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>OVERVIEW: THE INTRUDERS FROM THE SUN An introduction to the interaction of electric solar particles (solar wind) with our atmosphere, and an explanation of Cluster's mission to explore the Earth's magnetic defences. BACKGROUND: WHY CLUSTER PROBES THE EARTH'S SURROUNDINGS A quick look at mankind's historical fascination with the Sun, and some of the discoveries and questions that have arisen. Previous missions to explore the Sun; the role of Cluster. ENGINEERING THE MISSION: THE SATELLITE QUADS An outline of satellite production, testing of the Ariane 5 launcher, and the functioning of Cluster. INSTRUMENTS: HOW TO SENSE FIELDS, WAVES AND PARTICLES The monitoring of information received from the Cluster satellites; a description of the various experiments carried by the mission. Why 4 satellites are needed. SOLAR-TERRESTRIAL PHYSICS (1): PUNCHING HOLES IN THE EARTH'S SHIELD An explanation of the function of the Earth's magnetic shield; how Cluster will investigate the penetration of this shield by solar particles. Different penetration theories are given: electromagnetic invasion of the barrier; electric field facilitation; magnetic short-circuits; contradictory magnetism on the dark side of the Earth; polar entry points. SOLAR-TERRESTRIAL PHYSICS (2): NATURE'S DISCO LIGHTS. A discussion of auroral activity, with possible effects on the Earth's atmosphere; the relevance of Cluster investigating these phenomena. SOLAR-TERRESTRIAL PHYSICS (3): THE UNIVERSE OF PLASMA Solar-terrestrial electrical activity as a strange phenomenon; conceptualisation. A description of plasma as an electric gas of charged atoms and free electrons. Action of plasma in the Universe, and the importance of Cluster investigating plasma physics. </plain>

**Keywords** SPACE SCIENCE,CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 0000236

**Title:** Cluster - English

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>OVERVIEW: THE INTRUDERS FROM THE SUN An introduction to the interaction of electric solar particles (solar wind) with our atmosphere, and an explanation of Cluster's mission to explore the Earth's magnetic defences. BACKGROUND: WHY CLUSTER PROBES THE EARTH'S SURROUNDINGS A quick look at mankind's historical fascination with the Sun, and some of the discoveries and questions that have arisen. Previous missions to explore the Sun; the role of Cluster. ENGINEERING THE MISSION: THE SATELLITE QUADS An outline of satellite production, testing of the Ariane 5 launcher, and the functioning of Cluster. INSTRUMENTS: HOW TO SENSE FIELDS, WAVES AND PARTICLES The monitoring of information received from the Cluster satellites; a description of the various experiments carried by the mission. Why 4 satellites are needed. SOLAR-TERRESTRIAL PHYSICS (1): PUNCHING HOLES IN THE EARTH'S SHIELD An explanation of the function of the Earth's magnetic shield; how Cluster will investigate the penetration of this shield by solar particles. Different penetration theories are given: electromagnetic invasion of the barrier; electric field facilitation; magnetic short-circuits; contradictory magnetism on the dark side of the Earth; polar entry points. SOLAR-TERRESTRIAL PHYSICS (2): NATURE'S DISCO LIGHTS. A discussion of auroral activity, with possible effects on the Earth's atmosphere; the relevance of Cluster investigating these phenomena. SOLAR-TERRESTRIAL PHYSICS (3): THE UNIVERSE OF PLASMA Solar-terrestrial electrical activity as a strange phenomenon; conceptualisation. A description of plasma as an electric gas of charged atoms and free electrons. Action of plasma in the Universe, and the importance of Cluster investigating plasma physics. </plain>

**Keywords** SPACE SCIENCE,CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000237

**Title:** Tracking Down the Ozone Killers - update 1

**Type:** Video Index

**Category:** VNR

**Language** M/E only

**Production Date** 03/19/1996

**Length:** 15

**Comments** <plain>A video index highlighting the usefulness of the ESA ERS-2 mission, launched on 21st April 1992. Sequence 1: rotating Earth graphic, ozone distribution, antarctic hole; various images related to construction and launch of ERS-2. Sequence 2: GOME graphs; images of global emissions: industrial and transport fumes,CFCs, "environmentally friendly" products, volcanic eruptions, volcano graphic. Sequence 3: ERS-2 animation, testing of ERS-2. Sequence 4: tracking ERS-2, ground station.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000237

**Title:** Tracking Down the Ozone Killers - update 1

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**Category:** VNR

**Language** M/E only

**Production Date** 03/19/1996

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**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000237

**Title:** Tracking Down the Ozone Killers - update 1

**Type:** Video Index

**Category:** VNR

**Language** M/E only

**Production Date** 03/19/1996

**Length:** 15

**Comments** <plain>A video index highlighting the usefulness of the ESA ERS-2 mission, launched on 21st April 1992. Sequence 1: rotating Earth graphic, ozone distribution, antarctic hole; various images related to construction and launch of ERS-2. Sequence 2: GOME graphs; images of global emissions: industrial and transport fumes,CFCs, "environmentally friendly" products, volcanic eruptions, volcano graphic. Sequence 3: ERS-2 animation, testing of ERS-2. Sequence 4: tracking ERS-2, ground station.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000245

**Title:** Soho: First results, VNR.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Various

**Production Date** 00/00/00

**Length:** 8

**Comments** <plain>ESA's astronomical satellite Soho was launched on December 2nd, 1995. This video incorporates a compilation of images received from SOHO in May 1996, along with oth related material - graphics, footage of a NASA ground station, and interviews with some of the scientists involved the project. Interviews are given in French, Italian, German, Spanish and English.</plain>

**Keywords** SOHO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000246

**Title:** Ariane 5: First Launch Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>A compilation of material illustrating production of the Ariane 5 launcher. Clips include: Ariane 5 launch graphics; Cluster graphics; manufacture, transportation (MN Toucan vessel), and installation, including payload; design and testing of various components; launch site graphics and helicopter footage.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000246

**Title:** Ariane 5: First Launch Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>A compilation of material illustrating production of the Ariane 5 launcher. Clips include: Ariane 5 launch graphics; Cluster graphics; manufacture, transportation (MN Toucan vessel), and installation, including payload; design and testing of various components; launch site graphics and helicopter footage.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000246

**Title:** Ariane 5: First Launch Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>A compilation of material illustrating production of the Ariane 5 launcher. Clips include: Ariane 5 launch graphics; Cluster graphics; manufacture, transportation (MN Toucan vessel), and installation, including payload; design and testing of various components; launch site graphics and helicopter footage.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000247

**Title:** Ariane 5: Start Of Campaign short

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 16

**Comments:** <plain>An overview of the production of the Ariane 501 launcher. This video contains substantial footage of the European manufacture, transportation and assembly of the launcher at Centre Spatiale Guyanis.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000248

**Title:** Ariane 5: Start Of Campaign Long

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 05/01/1996

**Length:** 21

**Comments:** <plain>An extensive compilation of footage detailing the production of the Ariane 501 launcher. The film portrays the European manufacture of the launcher's components; subsequent transportation by road and sea to French Guiana Europe's spaceport; detailed assembly of the launcher, culminating in main stage and solid fuel booster integration; brief footage of the Cluster payload satellites.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000248

**Title:** Ariane 5: Start Of Campaign

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>An extensive compilation of footage detailing the production of the Ariane 501 launcher. The film portrays the European manufacture of the launcher's components; subsequent transportation by road and sea to French Guiana Europe's spaceport; detailed assembly of the launcher, culminating in main stage and solid fuel booster integration; brief footage of the Cluster payload satellites.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000248

**Title:** Ariane 5: Start Of Campaign

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>An extensive compilation of footage detailing the production of the Ariane 501 launcher. The film portrays the European manufacture of the launcher's components; subsequent transportation by road and sea to French Guiana Europe's spaceport; detailed assembly of the launcher, culminating in main stage and solid fuel booster integration; brief footage of the Cluster payload satellites.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000249

**Title:** Ariane 5: First Launch Update 1.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 25

**Comments:** <plain>A slightly longer version of "Ariane 5 Index", covering the overall production of the Ariane 501 launcher. The video includes Cluster launch graphics; the manufacture, transportation and assembly of the launcher; design and testing of various components; rollout graphics, virtual launch site, a "helicopter's eye" graphic sequence; and helicopter footage of Center Spatiale Guyanis. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000251

**Title:** Archimedes Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/01/1996

**Length:** 10

**Comments** <plain>An introduction to the proposed ESA Archimedes project, which will involve payloads for high-quality digital broadcasting (DBA), advanced mobile communications and navigation. Three to six satellites will utilise elliptical orbits, ensuring "high in the sky" coverage for northern latitudes and minimizing high-object "shadowing". The project, which could provide uninterrupted coverage of the world's most important business areas, is due to commence with a pilot launch in 1999. The video contains chapters arranged as follows: graphic sequence, vehicle receiving conventional and elliptical satellite signals; HEO (Highly Eccentric Orbit) animation, 1000 to 4000 km from Earth's surface; Molniya orbit animation; initial constellation (3 satellites) to final constellation (5 satellites); 5 satellite multiregional HEO constellation; high elevation angle transmission, avoiding obstacles; car radio tuning, driver using laptop computer with satellite modem; satellite manufacture; Ariane launch; European telecommunications sequence; Estec.</plain>

**Keywords** TELECOMMUNICATIONS,ARCHIMEDES

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000251

**Title:** Archimedes Index.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/01/1996

**Length:** 10

**Comments** <plain>An introduction to the proposed ESA Archimedes project, which will involve payloads for high-quality digital broadcasting (DBA), advanced mobile communications and navigation. Three to six satellites will utilise elliptical orbits, ensuring "high in the sky" coverage for northern latitudes and minimizing high-object "shadowing". The project, which could provide uninterrupted coverage of the world's most important business areas, is due to commence with a pilot launch in 1999. The video contains chapters arranged as follows: graphic sequence, vehicle receiving conventional and elliptical satellite signals; HEO (Highly Eccentric Orbit) animation, 1000 to 4000 km from Earth's surface; Molniya orbit animation; initial constellation (3 satellites) to final constellation (5 satellites); 5 satellite multiregional HEO constellation; high elevation angle transmission, avoiding obstacles; car radio tuning, driver using laptop computer with satellite modem; satellite manufacture; Ariane launch; European telecommunications sequence; Estec.</plain>

**Keywords** TELECOMMUNICATIONS,ARCHIMEDES

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000254

**Title:** Ariane 5: Qualification

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 00/00/00

**Length:** 4

**Comments** <plain>A short film which shows the manufacture of components for the Ariane 5 launcher, followed by transportation to the NASA testing site. </plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000255

**Title:** Ariane 501: Reuters TV VNR's

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** Various

**Production Date:** 06/01/1996

**Length:** 43

**Comments:** <plain>A montage of images relating to the Ariane 5 launch from manufacture to the V88 failure. Contents as follows: testing control centre; experimental firing of booster, ground and air views; assembly of different engines; vibration tests of engines, data analysis; French, English, German, Italian interviews with ESA personnel regarding the scheduled V88 launch; Cluster graphics; assembled launcher footage; Cluster graphics sequence; interview; footage of assembled launcher, rollout, assembled crowds; launcher on launchpad night footage with floodlights; control room, countdown; V88 launch, culminating in failure and shots of falling debris; interview with Michel Mignot, director CSG-CNES; footage of failure taken from beach; faces of onlookers, pre-launch news releases (English, Italian, French, German, Italian); Italian launch news release. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000255

**Title:** Ariane 501: Reuters TV VNR's

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** Various

**Production Date:** 06/01/1996

**Length:** 43

**Comments:** <plain>A montage of images relating to the Ariane 5 launch from manufacture to the V88 failure. Contents as follows: testing control centre; experimental firing of booster, ground and air views; assembly of different engines; vibration tests of engines, data analysis; French, English, German, Italian interviews with ESA personnel regarding the scheduled V8 launch; Cluster graphics; assembled launcher footage; Cluster graphics sequence; interview; footage of assembled launcher, rollout, assembled crowds; launcher on launchpad night footage with floodlights; control room, countdown; V8 launch, culminating in failure and shots of falling debris; interview with Michel Mignot, director CSG-CNES; footage of failure taken from beach; faces of onlookers, pre-launch news releases (English, Italian, French, German, Italian); Italian launch news release. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000258

**Title:** Ariane 501: Post-Launch Update

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 07/22/1996

**Length:** 6

**Comments:** <plain>This index covers the press conference (July 23rd 1996) relating to the failed launch of Ariane 501 (V88). Images include: Ariane 501 lift-off, ground and aerial footage same images with slow-down and zoom; visualisation of Ariane 501 launch with virtual reality techniques; debris of Cluster satellites being recovered; cleaning and packaging elements of Cluster satellite; large piece of Ariane 501 solid propellant stage; ring laser gyro on Ariane 5 inertial platform final integration of Ariane 501 vehicle equipment bay; close up of inertial platform; roll out of Ariane 4; launch of Ariane integration of Ariane 502.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000258

**Title:** Ariane 501: Post-Launch Update

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 07/22/1996

**Length:** 6

**Comments:** <plain>This index covers the press conference (July 23rd 1996) relating to the failed launch of Ariane 501 (V88). Images include: Ariane 501 lift-off, ground and aerial footage same images with slow-down and zoom; visualisation of Ariane 501 launch with virtual reality techniques; debris of Cluster satellites being recovered; cleaning and packaging elements of Cluster satellite; large piece of Ariane 501 solid propellant stage; ring laser gyro on Ariane 5 inertial platform; final integration of Ariane 501 vehicle equipment bay; close up of inertial platform; roll out of Ariane 4; launch of Ariane integration of Ariane 502.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000261

**Title:** Euromir '95: Short Presentation

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>The Euromir '95 mission, involving the ESA astronaut Thomas Reiter, was launched on September 3rd 1995. This index provides an outline of the mission. Images include: launch; vehicle docking with MIR, embracing Russian cosmonaut; in-orbit footage of Earth, various in-flight crew footage (especially physiological monitoring), topographical footage of the Earth, spacewalk, return to Earth.</plain>

**Keywords:** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000261

**Title:** Euromir '95: Short Presentation

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>The Euromir '95 mission, involving the ESA astronaut Thomas Reiter, was launched on September 3rd 1995. This index provides an outline of the mission. Images include: launch; vehicle docking with MIR, embracing Russian cosmonaut; in-orbit footage of Earth, various in-flight crew footage (especially physiological monitoring), topographical footage of the Earth, spacewalk, return to Earth.</plain>

**Keywords:** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,EURO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000262

**Title:** Whose Sky Is It?

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 12/10/1996

**Length:** 14

**Comments:** <plain>The United States GPS and Russian GLONASS navigation systems offer a wide range of applications for maritime, land mobile and aeronautical users. However, in most cases a "civil overlay system" is needed to optimize service performance and integrity. This documentary outlines ESA's efforts to develop and demonstrate such a system for aeronautical navigation.</plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000263

**Title:** Rosetta.

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/01/1996

**Length:** 7

**Comments:** <plain>ESA's Rosetta mission, due to be launched by Ariane 5 in January 2003, will spend eight years positioning ultra-sensitive equipment to observe Comet Wirtanen. Rosetta will rendezvous with the comet in 2011; in April 2012, it will go into a near orbit around Comet Wirtanen and escort it for 17 months as it flies towards its closest approach with the Sun on September 21 2013. Ultimately, Rosetta will map and examine the entire surface of Wirtanen using remote-sensing. In addition, a lander will be dropped onto the comet's surface, investigating physical condition and chemical composition. This film shows the various stages of the mission in the form of graphic sequences. The index is chaptered as follows: description of spacecraft; launch footage; deployment procedure; mission scenario; Earth flyby; asteroid flyby; long cold sleep; waltzing with the comet.</plain>

**Keywords:** SPACE SCIENCE,ROSETTA

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000264

**Title:** Huygens Web Page.

**Type:** Edited Video

**Category:** screen output

**Language** Mute

**Production Date** 01/01/1997

**Length:** 4

**Comments:** <plain>An example screen output of the web page "Huygens Messages To Titan".</plain>

**Keywords:** HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000265

**Title:** Space Station - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 11/01/1996

**Length** 14

**Comments** <plain>A detailed, animated description of the International Space Station; its various components, step-by-step construction, and function. The contribution made by each agency is outlined. SOUND PRODUCTION FAULTY. MUSIC SOUND LEVEL LOUDER THAN COMMENTARY.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000265

**Title:** Space Station - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 11/01/1996

**Length** 14

**Comments** <plain>A detailed, animated description of the International Space Station; its various components, step-by-step construction, and function. The contribution made by each agency is outlined. SOUND PRODUCTION FAULTY.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00000265

**Title:** Space Station - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 11/01/1996

**Length:** 14

**Comments** <plain>A detailed, animated description of the International Space Station; its various components, step-by-step construction, and function. The contribution made by each agency is outlined.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000265

**Title:** Space Station - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 11/01/1996

**Length:** 14

**Comments** <plain>A detailed, animated description of the International Space Station; its various components, step-by-step construction, and function. The contribution made by each agency is outlined.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000265

**Title:** Space Station - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 11/01/1996

**Length** 14

**Comments** <plain>A detailed, animated description of the International Space Station; its various components, step-by-step construction, and function. The contribution made by each agency is outlined. SOUND PRODUCTION FAULTY.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000267

**Title:** Ariane 4: Vol 44 Campaign Video

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>An ESA campaign video containing footage related to the Ariane V44 launch on July 17th 1991. The compilation includes various footage of: construction of launcher; construction of ERS-1; pre-launch assembly; launch personnel, testing components; payload rollout; and the night launch.</plain>

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000268

**Title:** Pre-Launch Soho

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 10/31/1995

**Length:** 76

**Comments:** <plain>Coverage of the Soho (Solar and Heliospheric Observatory Mission) pre-launch science briefing (October 31, 1995, Goddard Science Centre). The end of the tape contains associated animations and video images.</plain>

**Keywords:** SOHO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000269

**Title:** Ariane 501: Campaign Video CSG.

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 01/01/1997

**Length:** 46

**Comments:** <plain>The first Ariane 5 launch was on June 4th 1996, scheduled to take the Cluster payload into space; the flight failed. These music clips (one long version, one condensed version) take the viewer through the various stages of production, following through to the eventual failure. Sections include: Cluster - delivery, assembly, and testing (incorporating balloon operation of moving parts, computer personnel); transportation of the launcher components (shipping aboard MN Toucan and by road) to Center Spatial Guyanes (CSG), unloading and assembling components, solid fuel booster, assembled launcher structure; delivery to Cluster to CSG, final assembly; control room, testing of engine; payload integration, rollout of launcher with payload control room, countdown, ignition, lift-off, and failure with "r down".</plain>

**Keywords:** LAUNCHERS,CSG KOUROU,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000271

**Title:** Destination Mars

**Type:** Edited Video

**Category:** Graphics

**Language** M/E only

**Production Date** 00/00/00

**Length:** 5

**Comments** <plain>An animation sequence to illustrate a theoretical manned mission to Mars. Sequences show spacecraft launched towards Mars, entering the planet's atmosphere a landing; astronaut sets foot on the planet's surface; buggy and sample-collecting vehicle; spacecraft launched from surface of Mars, docks with in-orbit booster component, capsule re-enters Earth's atmosphere and lands via parachute.</plain>

**Keywords** NASA GENERAL,MARS EXPRESS,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000274

**Title:** Space For Europe - English

**Type:** Edited Video

**Category:**

**Language** English

**Production Date** 06/24/1988

**Length:** 21

**Comments** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000274

**Title:** Space For Europe - French

**Type:** Edited Video

**Category:**

**Language** French

**Production Date** 06/24/1988

**Length:** 21

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000274

**Title:** Space For Europe - Nederland

**Type:** Edited Video

**Category:**

**Language** Dutch

**Production Date** 10/06/1988

**Length:** 21

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000278

**Title:** Mysterious Planet

**Type:** Edited Video

**Category:**

**Language** English

**Production Date** 07/05/1989

**Length:** 25

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000281

**Title:** Aeronautical oddities.

**Type:** Edited Video

**Category:** Library material

**Language** English

**Production Date** 00/00/00

**Length** 16

**Comments** <plain>A humorous Paramount Pictures' documentary, containing clips of different contemporary designs for planes and flying machines - some more successful than others. Footage circa 1910 (?)-</plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000287

**Title:** International Space Station: Animation

**Type:** Video Index

**Category:** Graphics

**Language** Mute

**Production Date** 00/00/00

**Length** 8

**Comments** <plain>A series of animations concerning the International Space Station, organised as follows: scene 1A 1 - ISS fly-around, Sun in background; scene 2A 1 - USA - the American component of the Space Station; scene 3A 1 - NASDA - the Japanese component; scene 4A 1 - Russia - the Russian component; scene 5A 1 - ESA - the European component; various shots - FGB (Functional Cargo Block); American shuttle with Node 1; Node 1 docked with FGB; addition of service module; piecing together the space station component by component; joining components at the space shuttle using the remote operations arm; gradual build-up of the space station; interior of the station; various stages of completion of the station; station in orbit, Earth in background; cupola viewing - location port side of aft node - view through windows, rotation through 360 degrees; space station with sunrise in background; station over the Earth. </plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** commercial

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**Pouction no.** 00000288

**Title:** International Space Station: First Step

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 9

**Comments** <plain>In 1993, Russia joined the USA and its partners in the largest cooperative space exploration effort in history - the International Space Station. This documentary covers the following stages of the process: -Gore and Chernomyrdin signing the 1993 treaty; -the STS-60 mission, launched in February 1994, a NASA mission which included a Russian cosmonaut, Sergei Krikalev; footage of in-flight biomedical investigations; -the February 1995 STS-63 mission, involving a rendezvous between the Russian space station Mir and the American shuttle Orbiter; various footage of both craft, astronauts waving, Russian and American mission control centres; -the Mir 18 mission, launched on March 14th 1995, during which an American astronaut (Norm Thagard) stayed onboard the Mir for three and a half months; the launch, Thagard aboard Soyuz rocket, being welcomed aboard the shuttle, in-flight biomedical experiments and EVA; -the STS-71 mission - docking of the Orbiter American space shuttle with Mir: the vehicles, docking capture, shaking hands, the crews holding a ceremony consisting of 'docking' models of the vehicles, Mir above Earth and Atlantis landing; -the November 1995 mission to install a permanent docking module onto Mir; the docking procedure, the crews (of ESA Canada, America and Russia), closing the hatch and shaking hands; -the STS-76 mission, involving another docking between Atlantis and Mir; American astronauts spacewalk outside the Russian space station, installation of Mir Environmental Effects payload onto the docking module, and various in-flight shots of crew and vehicles, including an animation of the proposed International Space Station.  
</plain>

**Keywords** SPACE STATIONS,RKA,MANNED SPACEFLIGHT,INTER

**Shotlist** <plain></plain>

**Use:** commercial

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**Pouction no.** 00000290

**Title:** International Space Station: Clip

**Type:** Video Index

**Category:** miscellaneous

**Language:** Natural Sound Only

**Production Date:** 10/10/1995

**Length:** 33

**Comments:** <plain>General material concerning the construction of the International Space Station. The video is divided into the following components: ANIMATION SECTION - the Russian FGB (Functional Cargo Block) component of the Space Station; American space shuttle adds Node 1 component; addition of Service Module (SM); addition of components from various space agencies, resulting in the formation of the International Space Station (ISS); American space shuttle docked with ISS; various images of ISS above the Earth. RUSSIAN COMPONENT MANUFACTURE - various stages in the constuction (by the Russian compan Kruchnitchev) of the Russian components of the ISS- drilling, welding, welding using manipulator arm, positioning of pane freight containers of different components, tightening bolts, lorries pull out of factory, loading ISS component onto plane Proton booster rockets, the Service Module (SM) component. POST-FLIGHT PRESENTATION - An incomplete crew presentation of the NASA mission STS-69 Crew members were as follows: Newman, Gernhardt, Vos Walker, Cockrel. The following photograph images are incorporated: launch of the shuttle; the payload bay contain Wakeshield, Spartan and IUEH (International Extreme Ultraviolet Hitchhiker); various crew members; Earth observation photographs - Amazon river, cloud vortices, hurricane, desert forest, the Nile river valley, centre pivot irrigation fields in Saudi Arabia, colour infrared photograph over Indonesia to show vegetation distribution, EVA astron: silhouetted against hurricane, Sun through shuttle window, Florida. </plain>

**Keywords:** SPACE STATIONS,NASA GENERAL,INTERNATIONAL SP

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000297

**Title:** All Along The Watchtower

**Type:** Edited Video

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000300

**Title:** What A Wonderful World? - Francais

**Type:** Edited Video

**Category:** documentary: general public

**Language** French

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000300

**Title:** What A Wonderful World? - Espanol

**Type:** Edited Video

**Category:** documentary: general public

**Language** Spanish

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000300

**Title:** What A Wonderful World? - English

**Type:** Edited Video

**Category:** documentary: general public

**Language** English

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000300

**Title:** What A Wonderful World? - Francais

**Type:** Edited Video

**Category:** Documentary - general public

**Language** French

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000300

**Title:** What A Wonderful World? - Espanol

**Type:** Edited Video

**Category:** Documentary - general public

**Language** Spanish

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000300

**Title:** What A Wonderful World? - Italiano

**Type:** Edited Video

**Category:** Documentary - general public

**Language** Italian

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000300

**Title:** What A Wonderful World? - English

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000304

**Title:** STS-76 Mission Highlights

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** English

**Production Date:** 01/01/1996

**Length:** 61

**Comments:** <plain>Material relevant to the NASA STS-76 Atlantis mission, on which American astronauts spacewalked in proximity to the Russian space station Mir. The mission also included the transfer of a NASA astronaut to the space station. Footage is organised as follows: PRE-LAUNCH AND LAUNCH ACTIVITIES: the launch set-up before lift-off; crew sitting around table; main engines; crew suiting up an entering van; verification of flight control surfaces, main engines positioned for launch; retraction of hood from external tank, booster ignition and lift-off; solid fuel boosters jettisoned, views from both Orbiter and control centre. MOCR LAUNCH OPERATIONS: control room personnel, MIR APPROACH AND DOCKING: crew film through flight deck windows, shots of Mir; footage of Atlantis from Mir, docking ring, crew on flight deck controlling docking procedure; Mir comes into view in shuttle windows; contact footage of docking mechanisms coming together, capture; MCC (Mission Control Centre) Mir operations: footage of centre, operators, video screen shows docking footage; opening hatch, hugging and shaking hands with Russian cosmonauts; camera moving through docking adaptor and into Mir space station, transfer item bags; cameraman rolling as he moves into Mir to record a tour of the space station, through various modules, into base block, past crew members discussing transfer operations, and into Soyuz with views of Russian space suits, back into the space shuttle, through docking port containing 'target'; crew conference, Russian and American crews. EVA OPERATIONS: astronaut emerging, NASA astronauts spacewalking on Mir Atlantis complex, various views; carrying apparatus, which attached and opened; view from Mir of American EVA astronauts, spectacularly set against large solar arrays and shuttle; astronauts re-entering Atlantis, closing thermal protection cover. SPACEHAB OPERATIONS: crew members inside Spacehab, demonstrating transfer bag and Russian food container; explanation of Biorack (built by ESA, this is its fourth mission); working in Biorack glovebox. UNDOCKING AND FLY AROUND: split screen, docking ring with target/ separation of docking systems; view through orbiter's docking ring camera of Mir moving away; Mir with Earth (South Pacific) in background. LANDING: views of Atlantis entering Earth's atmosphere, approaching runway picturesque landing sequence with Sun over horizon in background, rolling out. </plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000305

**Title:** GNSS: Europe And Satellite Navigation

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English and French

**Production Date** 01/01/1997

**Length** 51

**Comments** <plain>Chapter 1: SATELLITE NAVIGATION TECHNOLOGY AND APPLICATIONS: Europe has taken the decision to participate in the development of a next-generation global satellite navigation network. This system will use data transmitted by Earth-orbiting spacecraft to pinpoint the location of aircraft, ships and trucks to an accuracy of metres, along with many other applications. Two satellite-based military navigational systems are operational today: the American Global Positioning System (GPS) and Russia's Global Navigation Satellite System (GLONASS). Civilian use of these systems has grown far beyond what was originally envisaged. This chapter contains the following footage: interview comments with Neil Kinnock, Commissioner for Transport, European Commission; 3D animation of the "constellation" of GPS satellites; road signs and maps; various methods of transportation - planes, trains, buses, trams etc; emergency vehicles; ships and ferries; the Eurotunnel; GPS technology in agriculture and freight distribution; interview comments with Prof. Gunther Schanzer, Professor of Flight Technology, Technical University of Braunschweig; 3D animation of how navigation systems measure the position of a plane. Chapter 2: A MATTER FOR EUROPE: Europe will take an active role in the development of the next generation of satellite systems. The European Tripartite Group (the European Community, EUROCONTROL and ESA) are currently coordinating GNSS activities in Europe. The GPS and GLONASS satellites remain military-run networks; GPS signals made available to the public are deliberately degraded. The Council of the European Union and the European parliament have recently adopted guidelines for the development of the Trans-European Transport Network. This aims at improving efficiency of the transport system. Satellite navigation is considered an integral part of the network. A significant portion of the cost of operating aeronautical radio navigation systems in Europe could be saved if satellite navigation is used as a primary means of navigation. This chapter contains the following footage: 3D animation of how the degradation of GPS signals for civilian users affects the safety of maritime transport; interview comment with Jean-Yves Delhay, Deputy Director, Air Navigation, France; various air traffic and control centres. Chapter 3: EUROPEAN GEOSTATIONARY SATELLITE NAVIGATION OVERLAY SYSTEM DESCRIPTION. Europe looks to gradually establish a navigation system to provide three essential services: ranging, integrity monitoring and differential corrections. The European programme will be a contribution to a future Global Navigation Satellite System (GNSS). Europe's primary contribution to the first stage of the GNSS will involve signal relay transponders carried on geostationary satellites and a network of ground stations. These will augment, or 'overlay' GPS and GLONASS signals. This programme is known as the European Geostationary Navigation Overlay Service, EGNOS. This chapter contains

the following footage: interview comments by Neil Kinnock; build and launch of Inmarsat III; animation of the ground coverage of navigation transponders onboard the four Inmarsat III satellites; ground infrastructure; monitoring and control antennae (DLR/ Fucino, Italy/ Tromso, Norway); data processing system (DLR, Germany); 3D animation of EGNOS ground segment and EGNOS space segment. Chapter 4: TRIPARTITE GROUP. The European Tripartite Group (ETG) has a mandate supported by government decisions at national and European level. The responsibilities within EGNOS reflect the strengths of each member of the ETG. The EC is responsible for institutional and policy matters, and for the coordination of the implementation of a Trans-European navigation and positioning network. Eurocontrol is responsible for defining the mission requirements for civil aviation, and will play a major role in the test and validation phase of system deployment. ESA is responsible for the management of all EGNOS development, deployment and technical validation activities, and will make its contribution through the ARTES (Advanced Research in Telecommunications Systems) programme. In December 1995, a joint EU-USA Action Plan was signed by the President of the EC, Jacques Santer and the President of the USA, Bill Clinton. It was decided to establish a working group for consultations on design and implementation of the GNSS. It was also agreed to cooperate closely on setting standards. In November 1995, Commissioner Kinnock and Mr Tsakh, Minister for Transport of the Russian Federation, agreed to set up a joint EU/Russian Working Group to cooperate in the implementation of a global system. Discussions with Japan, to ensure interoperability with Japan's own overlay system have begun. This chapter contains the following footage: interview comment with Neil Kinnock; ESA meeting, Paris (France); ESOC, ESA's Space Operations Centre, Darmstadt (Germany); ESRIN, ESA's Space Data and Informatics Establishment, Frascati (Italy); Eurocontrol, the CFMU building; Eurocontrol Council meeting and General Operations; EC building, Brussels (Belgium).

**Keywords** SATELLITE NAVIGATION,GNSS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000305

**Title:** GNSS: Europe And Satellite Navigation

**Type:** Video Index

**Category:** index: chapter structured

**Language** English and French

**Production Date** 00/00/00

**Length** 51

**Comments** <plain>Chapter 1: SATELLITE NAVIGATION TECHNOLOGY AND APPLICATIONS: Europe has taken the decision to participate in the development of a next-generation global satellite navigation network. This system will use data transmitted by Earth-orbiting spacecraft to pinpoint the location of aircraft, ships and trucks to an accuracy of metres, along with many other applications. Two satellite-based military navigational systems are operational today: the American Global Positioning System (GPS) and Russia's Global Navigation Satellite System (GLONASS). Civilian use of these systems has grown far beyond what was originally envisaged. This chapter contains the following footage: interview comments with Neil Kinnock, Commissioner for Transport, European Commission; 3D animation of the "constellation" of GPS satellites; road signs and maps; various methods of transportation - planes, trains, buses, trams etc; emergency vehicles; ships and ferries; the Eurotunnel; GPS technology in agriculture and freight distribution; interview comments with Prof. Gunther Schanzer, Professor of Flight Technology, Technical University of Braunschweig; 3D animation of how navigation systems measure the position of a plane. Chapter 2: A MATTER FOR EUROPE: Europe will take an active role in the development of the next generation of satellite systems. The European Tripartite Group (the European Community, EUROCONTROL and ESA) are currently coordinating GNSS activities in Europe. The GPS and GLONASS satellites remain military-run networks; GPS signals made available to the public are deliberately degraded. The Council of the European Union and the European parliament have recently adopted guidelines for the development of the Trans-European Transport Network. This aims at improving efficiency of the transport system. Satellite navigation is considered an integral part of the network. A significant portion of the cost of operating aeronautical radio navigation systems in Europe could be saved if satellite navigation is used as a primary means of navigation. This chapter contains the following footage: 3D animation of how the degradation of GPS signals for civilian users affects the safety of maritime transport; interview comment with Jean-Yves Delhay, Deputy Director, Air Navigation, France; various air traffic and control centres. Chapter 3: EUROPEAN GEOSTATIONARY SATELLITE NAVIGATION OVERLAY SYSTEM DESCRIPTION. Europe looks to gradually establish a navigation system to provide three essential services: ranging, integrity monitoring and differential corrections. The European programme will be a contribution to a future Global Navigation Satellite System (GNSS). Europe's primary contribution to the first stage of the GNSS will involve signal relay transponders carried on geostationary satellites and a network of ground stations. These will augment, or 'overlay' GPS and GLONASS signals. This programme is known as the European Geostationary Navigation Overlay Service, EGNOS. This chapter contains

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**Keywords** SATELLITE NAVIGATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00000305

**Title:** GNSS: Europe And Satellite Navigation

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English and French

**Production Date** 01/01/1997

**Length** 51

**Comments** <plain>Chapter 1: SATELLITE NAVIGATION TECHNOLOGY AND APPLICATIONS: Europe has taken the decision to participate in the development of a next-generation global satellite navigation network. This system will use data transmitted by Earth-orbiting spacecraft to pinpoint the location of aircraft, ships and trucks to an accuracy of metres, along with many other applications. Two satellite-based military navigational systems are operational today: the American Global Positioning System (GPS) and Russia's Global Navigation Satellite System (GLONASS). Civilian use of these systems has grown far beyond what was originally envisaged. This chapter contains the following footage: interview comments with Neil Kinnock, Commissioner for Transport, European Commission; 3D animation of the "constellation" of GPS satellites; road signs and maps; various methods of transportation - planes, trains, buses, trams etc; emergency vehicles; ships and ferries; the Eurotunnel; GPS technology in agriculture and freight distribution; interview comments with Prof. Gunther Schanzer, Professor of Flight Technology, Technical University of Braunschweig; 3D animation of how navigation systems measure the position of a plane. Chapter 2: A MATTER FOR EUROPE: Europe will take an active role in the development of the next generation of satellite systems. The European Tripartite Group (the European Community, EUROCONTROL and ESA) are currently coordinating GNSS activities in Europe. The GPS and GLONASS satellites remain military-run networks; GPS signals made available to the public are deliberately degraded. The Council of the European Union and the European parliament have recently adopted guidelines for the development of the Trans-European Transport Network. This aims at improving efficiency of the transport system. Satellite navigation is considered an integral part of the network. A significant portion of the cost of operating aeronautical radio navigation systems in Europe could be saved if satellite navigation is used as a primary means of navigation. This chapter contains the following footage: 3D animation of how the degradation of GPS signals for civilian users affects the safety of maritime transport; interview comment with Jean-Yves Delhay, Deputy Director, Air Navigation, France; various air traffic and control centres. Chapter 3: EUROPEAN GEOSTATIONARY SATELLITE NAVIGATION OVERLAY SYSTEM DESCRIPTION. Europe looks to gradually establish a navigation system to provide three essential services: ranging, integrity monitoring and differential corrections. The European programme will be a contribution to a future Global Navigation Satellite System (GNSS). Europe's primary contribution to the first stage of the GNSS will involve signal relay transponders carried on geostationary satellites and a network of ground stations. These will augment, or 'overlay' GPS and GLONASS signals. This programme is known as the European Geostationary Navigation Overlay Service, EGNOS. This chapter contains

the following footage: interview comments by Neil Kinnock; build and launch of Inmarsat III; animation of the ground coverage of navigation transponders onboard the four Inmarsat III satellites; ground infrastructure; monitoring and control antennae (DLR/ Fucino, Italy/ Tromso, Norway); data processing system (DLR, Germany); 3D animation of EGNOS ground segment and EGNOS space segment. Chapter 4: TRIPARTITE GROUP. The European Tripartite Group (ETG) has a mandate supported by government decisions at a national and European level. The responsibilities within EGNOS reflect the strengths of each member of the ETG. The EC is responsible for institutional and policy matters, and for the coordination of the implementation of a Trans-European navigation and positioning network. Eurocontrol is responsible for defining the mission requirements for civil aviation, and will play a major role in the test and validation phase of system deployment. ESA is responsible for the management of all EGNOS development, deployment and technical validation activities, and will make its contribution through the ARTES (Advanced Research in Telecommunications Systems) programme. In December 1995, a joint EU-USA Action Plan was signed by the President of the EC, Jacques Santer and the President of the USA, Bill Clinton. It was decided to establish a working group for consultations on design and implementation of the GNSS. It was also agreed to cooperate closely on setting standards. In November 1995, Commissioner Kinnock and Mr Tsakh, Minister for Transport of the Russian Federation, agreed to set up a joint EU/Russian Working Group to cooperate in the implementation of a global system. Discussions with Japan, to ensure interoperability with Japan's own overlay system have begun. This chapter contains the following footage: interview comment with Neil Kinnock; ESA meeting, Paris (France); ESOC, ESA's Space Operations Centre, Darmstadt (Germany); ESRIN, ESA's Space Data and Informatics Establishment, Frascati (Italy); Eurocontrol, the CFMU building; Eurocontrol Council meeting and General Operations; EC building, Brussels (Belgium).

**Keywords** SATELLITE NAVIGATION,GNSS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000308

**Title:** ZDF: Oil

**Type:** Video Index

**Category:** index: chapter structured

**Language:** natural sound

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>A compilation of images contrasting the use of ERS-SAR (Synthetic Aperture Radar) images and helicopter observation in monitoring marine oil spillages. Footage includes: ERS-1 SAR images of oil spillage; the Aegean Sea vessel leaking oil, explosion, sea catches fire; views of coast town with flames in background; emergency vessel hoses down tanker, black smoke-plume; ESA Earthnet ERS-1 SAR screen output (13/08/91), showing an oil slick over the Frer Cote d' Azur; holidaymakers on beach, helicopter footage (with French voiceover) of tracing oil slicks over the ocean</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000308

**Title:** ZDF: Oil

**Type:** Video Index

**Category:** index: chapter structured

**Language:** natural sound

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>A compilation of images contrasting the use of ERS-SAR (Synthetic Aperture Radar) images and helicopter observation in monitoring marine oil spillages. Footage includes: ERS-1 SAR images of oil spillage; the Aegean Sea vessel leaking oil, explosion, sea catches fire; views of coast town with flames in background; emergency vessel hoses down tanker, black smoke-plume; ESA Earthnet ERS-1 SAR screen output (13/08/91), showing an oil slick over the Frer Cote d' Azur; holidaymakers on beach, helicopter footage (with French voiceover) of tracing oil slicks over the ocean</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000308

**Title:** ZDF: Oil

**Type:** Video Index

**Category:** index: chapter structured

**Language:** natural sound

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>A compilation of images contrasting the use of ERS-SAR (Synthetic Aperture Radar) images and helicopter observation in monitoring marine oil spillages. Footage includes: ERS-1 SAR images of oil spillage; the Aegean Sea vessel leaking oil, explosion, sea catches fire; views of coast town with flames in background; emergency vessel hoses down tanker, black smoke-plume; ESA Earthnet ERS-1 SAR screen output (13/08/91), showing an oil slick over the Frer Cote d' Azur; holidaymakers on beach, helicopter footage (with French voiceover) of tracing oil slicks over the ocean  
</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000309

**Title:** ISS Resource Reel

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 24

**Comments:** <plain>Coverage of the construction of US and Russian components for the International Space Station (ISS), containing the following footage: RUSSIAN SERVICE MODULE (SM) - the module at the Khrunichev Industries plant, Moscow awaiting outfitting of its space systems (Jul 1995); the SM as it looks in October 1996, work having been delayed due to RKA budget cuts. This contribution to ISS is scheduled for launch in April 1998. RUSSIAN FUNCTIONAL CARGO BLOCK (FCB) - July 1995 and Feb 1996, working on the hull of the FCB cargo vehicle at Khrunichev Industries in Moscow; work progressing on installation of sub-systems, including thermal, navigation and guidance, propulsion and life-support. The project is managed by Boeing, ISS's prime contractor. The FCB vehicle is scheduled for a November 1997 Proton launch, from the Baikonur Cosmodrome in Kazakhstan. Khrunichev Industries announced completion of the vehicle in 1996. ISS/US HARDWARE - manufacturing processes at the Boeing plant, Huntsville, Alabama in March 1996. Views of Nodes 1 and 2, the American Habitation Module (Hab) and the American Laboratory Module (US Lab). ISS SOLAR ARRAY - qualification and unit deployment. Footage from the Lockheed Martin Missiles and Space Plant, Sunnyvale, California in March 1996. American Laboratory Module - the first proof pressure test of the ISS lab module. </plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000310

**Title:** Ariane 4: Music Clip

**Type:** Video Index

**Category:** Music clip

**Language** M/E only

**Production Date** 01/01/1988

**Length:** 5

**Comments** <plain>A compilation of material to demonstrate the use of the Ariane 4 launcher. Images as follows: animation of Ariane 4 flight, with Earth in the background; the satellite is exposed, 1st and 2nd stages fall away. The rotating satellite is deployed, followed by deployment of a second satellite from the remaining part. Monitor print of weather map of Europe; footage of ESA satellite dishes, one bearing the "Meteosat-SDUS" logo. Operators with computers, monitor print of global weather display.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT,LAUNCHERS,ARIA

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000311

**Title:** Ariane 4: Vol 94 Campaign Video

**Type:** Video Index

**Category:** Music clip

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>Intelsat 801 was launched by the V94 Ariane 4 flight on February 28th, 1997. This video contains images related to the launch, including: the MN Toucan vessel; Ariane 44P launcher; various clean-room shots of satellite; specialised lorries; loading freight container onto plane; Arianespace and CNES logos; Ariane 44P launcher; fitting together launcher stages; working on satellite, using gas balloon; workers on platforms around launcher stages; installing payload bay electronics; doors of payload bay closed together; launcher towed on platform, arms of launch tower close around top launcher, close shots of arms attaching; payload bay bearing ESA logo is towed by convoy of lorries; solid-fuel booster hoisted into upright position, and lifted by crane; attachment of boosters to launcher; workers in 'Arianespace' protective suits operating switches with Intelsat in background; lowering satellite onto rocket base, installing payload shields; affixing Intelsat logo; Intelsat rolled out on platform, lifted on cables, suspended at top of assembly tower; attaching Intelsat to Ariane 4; workers on platforms around launcher; assembly tower rolled away, launcher on platform; operators in control room; close-up of arms released from launcher, ignition, final launch, </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000312

**Title:** On The Edge Of Forever

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 19

**Comments** <plain>A presentation of the history and motives of the European Space Agency. A background is given to Europe's non-military involvement in the exploration of space, starting with the aspirations of Amaldi and Auger and the subsequent establishment of ELDO and ESRO. Material includes the Europa rocket, the 1975 merging to form ESA, and the Ariane series of launchers. Moving through the categories of space science, satellite communications, Earth observation, manned spaceflight and microgravity research - including involvement in the proposed Freedom space station - this documentary uses specific examples to explain why space exploration is a valid investment for Europe. </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000313

**Title:** ERS-1: The State Of The Earth

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 01/01/1992

**Length:** 13

**Comments:** <plain>ESA's ERS-1, the first environmental satellite, was launched on July 17th 1991. This compilation demonstrates its capabilities with the following data visualisation images: Greenland radar altimetry data, 3D flythrough; El-Nino multi-temporal altimetry data over 3 years; West Antarctica radar altimetry data; SAR (Synthetic Aperture Radar) oil spill data screen output, followed by footage of Aegean Sea tanker le with explosion, town with smoke-plumes in the background hosing down by rescue vessel; ESA Earthnet ERS-1 SAR output - oil slick off Cote d'Azur, France, August 13th 1991; helicopter footage of oil slick. ERS-1 SAR VMP ESA Earthnet images - Skagerak, Norway, October 2nd 1992; Bomlo Island, Norway, July 25th 1992; Jaeren, North Sea, August 17th 1992; Stavanger, Norway, October 5th 1992; Romsdal, Norway, November 4th 1992; Karmoy, Norway, J 11th 1992; English Channel, November 28th 1992; Riviera di Ponente, Italy, July 30th 1992; Oleron Island, France, August 4th 1991; Gulf of Thailand, June 5th 1992; the English Channel, 31st August 1992; Bergen, Norway, July 25th 1992. Imaging of the mid-Atlantic ridge, radar altimetry data with seafloor interpolation, 3D fly-through; Germany, SAR data with natural rendering.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000314

**Title:** Hubble Space Telescope: Science Update 1997 - English

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 02/01/1997

**Length:** 11

**Comments** <plain>The joint ESA/NASA project Hubble Space Telescope was carried into orbit by the American space shuttle Discovery, launched on April 24th 1990. This update is organised as follows: A- ROLL: various footage of the 199: Endeavour mission (launched December 2nd), mainly EVA (Extra-Vehicular Activity) on the telescope; interviews with scientists involved in the project; superb Hubble images on computer monitor. B-ROLL: images of HUBBLE through shuttle windows, EVA astronauts working, astronaut open hatch into Hubble, astronauts on remote operations arm with Earth in background, scientist with images on computer screen, walking through doors of ESTEC; researchers in library, in front of computer terminal, Hubble images, various interviews throughout.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000314

**Title:** Hubble Space Telescope: Science Update 1997 - Francais

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** French

**Production Date** 02/01/1997

**Length:** 11

**Comments** <plain>The joint ESA/NASA project Hubble Space Telescope was carried into orbit by the American space shuttle Discovery, launched on April 24th 1990. This update is organised as follows: A- ROLL: various footage of the 199: Endeavour mission (launched December 2nd), mainly EVA (Extra-Vehicular Activity) on the telescope; interviews with scientists involved in the project; superb Hubble images on computer monitor. B-ROLL: images of HUBBLE through shuttle windows, EVA astronauts working, astronaut open hatch into Hubble, astronauts on remote operations arm with Earth in background, scientist with images on computer screen, walking through doors of ESTEC; researchers in library, in front of computer terminal, Hubble images, various interviews throughout.</plain>

**Keywords** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000316

**Title:** Archimedes

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 00/00/00

**Length** 9

**Comments** <plain>The proposed ESA Archimedes project, will involve payloads for high-quality digital broadcasting (DBA), advanced mobile communications and navigation. Three to six satellites will utilise elliptical orbits, ensuring "high in the sky" coverage for northern latitudes and minimizing high-object "shadowing". The project, which could provide uninterrupted coverage of the world's most important business areas, is due to commence with a pilot launch in 1999. This video index contains the following images: animation of Molniya constellation, reduced service; animations of vehicles on road, receiving high elevation signals which avoid high obstacles (mountains, trees, buildings); animation of highly eccentric orbit (HEO); credits; animation to show satellite in three orbital periods every day; animation of three satellites in Molniya orbits; animation to show initial constellation to final operational constellation (5 satellites); various Archimedes logos; 5 satellites displaying multiregional H.E.O. constellation, to illustrate coverage of three different areas of the globe by five satellites, 24 hour per day. </plain>

**Keywords** ARCHIMEDES

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000318

**Title:** Italsat F2

**Type:** Video Index

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length** 5

**Comments** <plain>The Italian Italsat F2 satellite is scheduled for launch on August 8th, 1996, and will carry the European Mobile System (EMS) into space. This tape contains general cleanroom footage - operators in front of computer terminal foil application, satellite on hoist, lowering of telecommunications dish, applause and hand-shaking amongst personnel.</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000318

**Title:** Italsat F2

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 5

**Comments:** <plain>The Italian Italsat F2 satellite is scheduled for launch on August 8th, 1996, and will carry the European Mobile System (EMS) into space. This tape contains general cleanroom footage - operators in front of computer terminal foil application, satellite on hoist, lowering of telecommunications dish, applause and hand-shaking amongst personnel.</plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000320

**Title:** Euromir 94/95 Index

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English and German

**Production Date** 04/15/1997

**Length** 82

**Comments** <plain>The Euromir missions involved the transfer of two European astronauts to the Russian space station Mir. Euromir '94, launched on 3rd October 1994, was a 31-day mission undertaken by the German astronaut Ulf Merbold. The follow-up mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by German astronaut Thomas Reiter. This video consists of a music clip followed by footage related to the missions. Commentaries are given by the two German astronauts. MUSIC CLIP includes the following images: astronauts performing EVA (Extra-Vehicular Activity), Earth background; Russian congress; silhouetted astronauts, wa towards rising sun; 1960s and contemporary Russian (Proton, Soyuz) launches; various shots of Soyuz TM carrier and Mir; in-orbit shots of Mir crews; astronauts undergoing pre-flight training; submersible training vessel in pool; toy caps floats off table in microgravity; Mir from remote operations arm; Soyuz re-entry. COMMENTARY FOOTAGE CONTAINS: mission patches; Star City, the Russian Training Site- ESA astronauts (Pedro Duque, Christer Fuglesang, Thomas Reiter, Ulf Merbold) training in gym, eating at table, leaving building on bicycles, suiting up for EVA training, submerged parts of Mir, greeting Russian cosmonauts wearing special underwear, climbing into Russian Orlan space suits, astronaut's face through visor, being helped on with bulky gloves, Merbold saying goodbye to family and friends (including Bill Ready, Helena Kandakova and Valentina Terechkova); boarding aeroplane, talking with Sigmund Jahn, disembarking to welcome committee; boarding coach, cosmodrome Baikonur, manned space flight museum; Yuri Gagarin's house; Merbold and Sascha Viktorenko train on rotating chair, tip-table, Soyuz simulator; investigating Soyuz capsule in integration hall; traditional planting of tree by cosmonaut; Soyuz rocket and capsule being rolled to launchpad; cosmic forces personnel; launch raised to vertical position; traditional Russian quarters door-signing by Merbold; bus journey with police escort from Leninsk to cosmodrome; Merbold, Viktorenko and Elena Kondakova don Sokor space suits and report to General Ivanov, wave before ascending stairs to launcher elevator; Soyuz rocket launch (night); Soyuz capsule, Earth in background; first view of Mir; capsule docks with Mir, footage through windows and through docking camera; Kondakova and Polyakov repair electronics control unit; looking through Mir's windows using binoculars, views of Nile River, Red Sea, Mediterranean Sea in background, Arabian peninsula, Persian Gulf; drawing blood for biomedical experiments; objects float in microgravity; Merbold is rotated, closing his eyes as part of an experiment concerned with the vestibular organ; view of French Guyana; Merbold cleans his teeth, demonstrates Mir toilet, shaving, crew eats, donning anti-G pants; helicopter views of capsule landing with parachute; Merbold is helped from the capsule; Russian cosmonauts walk unsteadily; Merbold is served bread and salt at Arkalyk airport,

Kasachstan, and dressed in traditional robes, brass band; Merbold has the thickness of skin (i.e blood volume) measured on his forehead; returning crew greet relatives. Reiter training at Baikonur, being massaged; donning pressure suits; Russian launcher; elevator moves to capsule platform; launch of rocket, Soyuz docking with Mir crews open hatch and greet each other; views of interior of core module of Mir station, through module and into Soyuz capsule; trip through the space station - node, central control post, interface module; Reiter shows us around his sleeping module, looking through photographs on computer; zipping himself into sleeping bag; views of Earth - west coast of South America, coast of Chile, the Andes, Columbia, the southern part of South America, the river Rio de la Plata, Buenos Aires, Monte Video, the Brazilian rainforest; the Progress re-supply vessel; Reiter prepares food; more view Earth Spain; cutting hair using vacuum cleaner; views of Earth - southern Pacific, Cyprus<br> thunderclouds, atmosphere over the horizon; exercising - treadmills, ergometer; Atlantis (STS-74 mission) as seen through windows of Mir, connecting module, moving through tunnel which connects shuttle to Mir, back into core module of Mir; Reiter sits in flight deck of Atlantis; shuttle and Mir crews sit together; view of shuttle from Mir, more views of Earth - southern Italy, Sicily, Greece; Reiter does press-ups, first with one hand and then with no hands; view of Earth framed by Mir's windows - Kapstadt, Cape of good Hope, Africa, Namibian and Sahara deserts; suiting-up for EVA (Extra-Vehicular Activity), getting into Scafanda suits, exiting through hatch, astronaut with reflection of Mir in sun-visor; astronaut on end of crane, views of Earth from crane; volcano on New Zealand; microgravity experiments with globules of liquid; views of Europe, clear view of Berlin; Merbold, zoom in to ESA badge; Reiter uses treadmill, catches drops of liquid in his mouth; Soyuz capsule re-enters Earth's atmosphere; recovery personnel in the Desert of Kasachstan; Reiter is carried from the capsule towards tent. </plain>

**Keywords** SPACE STATIONS,MANNED SPACEFLIGHT,EUROMIR

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000320

**Title:** Euromir 94/95 Index - Deutsch

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** German

**Production Date:** 04/15/1997

**Length:** 82

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '94, launched on 3rd October 1994, was a 31-day mission undertaken by the German astronaut Ulf Merbold. The follow-up mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by German astronaut Thomas Reiter. This video consists of a music clip followed by footage related to the missions. Commentaries are given by the two German astronauts. MUSIC CLIP includes the following images: astronauts performing EVA (Extra-Vehicular Activity), Earth background; Russian congress; silhouetted astronauts, walking towards rising sun; 1960s and contemporary Russian (Proton, Soyuz) launches; various shots of Soyuz TM carrier and Mir; in-orbit shots of Mir crews; astronauts undergoing pre-flight training; submersible training vessel in pool; toy caps floats off table in microgravity; Mir from remote operations arm; Soyuz re-entry. COMMENTARY FOOTAGE CONTAINS: mission patches; Star City, the Russian Training Site- ESA astronauts (Pedro Duque, Christer Fuglesang, Thomas Reiter, Ulf Merbold) training in gym, eating at table, leaving building on bicycles, suiting up for EVA training, submerged parts of Mir, greeting Russian cosmonauts wearing special underwear, climbing into Russian Orlan space suits, astronaut's face through visor, being helped on with bulky gloves, Merbold saying goodbye to family and friends (including Bill Ready, Helena Kandakova and Valentina Terechkova); boarding aeroplane, talking with Sigmund Jahn, disembarking to welcome committee; boarding coach, cosmodrome Baikonur, manned space flight museum; Yuri Gagarin's house; Merbold and Sascha Viktorenko train on rotating chair, tip-table, Soyuz simulator; investigating Soyuz capsule in integration hall; traditional planting of tree by cosmonaut; Soyuz rocket and capsule being rolled to launchpad; cosmic forces personnel; launch raised to vertical position; traditional Russian quarters door-signing by Merbold; bus journey with police escort from Leninsk to cosmodrome; Merbold, Viktorenko and Elena Kondakova don Sokor space suits and report to General Ivanov, wave before ascending stairs to launcher elevator; Soyuz rocket launch (night); Soyuz capsule, Earth in background; first view of Mir; capsule docks with Mir, footage through windows and through docking camera; Kondakova and Polyakov repair electronics control unit; looking through Mir's windows using binoculars, views of Nile River, Red Sea, Mediterranean Sea in background, Arabian peninsula, Persian Gulf; drawing blood for biomedical experiments; objects float in microgravity; Merbold is rotated, closing his eyes as part of an experiment concerned with the vestibular organ; view of French Guyana; Merbold cleans his teeth, demonstrates Mir toilet, shaving, crew eats, donning anti-G pants; helicopter views of capsule landing with parachute; Merbold is helped from the capsule; Russian cosmonauts walk unsteadily; Merbold is served bread and salt at Arkalyk airport,

Kasachstan, and dressed in traditional robes, brass band; Merbold has the thickness of skin (i.e blood volume) measured on his forehead; returning crew greet relatives. Reiter training at Baikonur, being massaged; donning pressure suits; Russian launcher; elevator moves to capsule platform; launch of rocket, Soyuz docking with Mir crews open hatch and greet each other; views of interior of core module of Mir station, through module and into Soyuz capsule; trip through the space station - node, central control post, interface module; Reiter shows us around his sleeping module, looking through photographs on computer; zipping himself into sleeping bag; views of Earth - west coast of South America, coast of Chile, the Andes, Columbia, the southern part of South America, the river Rio de la Plata, Buenos Aires, Monte Video, the Brazilian rainforest; the Progress re-supply vessel; Reiter prepares food; more view Earth -Spain; cutting hair using vacuum cleaner; views of Earth - southern Pacific, Cyprus, thunderclouds, atmosphere over the horizon; exercising - treadmills, ergometer; Atlantis (STS-74 mission) as seen through windows of Mir, connecting module, moving through tunnel which connects shuttle to Mir, back into core module of Mir; Reiter sits in flight deck of Atlantis; shuttle and Mir crews sit together; view of shuttle from Mir, more views of Earth - southern Italy, Sicily, Greece; Reiter does press-ups, first with one hand and then with no hands; view of Earth framed by Mir's windows - Kapstadt, Cape of good Hope, Africa, Namibian and Sahara deserts; suiting-up for EVA (Extra-Vehicular Activity), getting into Scafanda suits, exiting through hatch, astronaut with reflection of Mir in sun-visor; astronaut on end of crane, views of Earth from crane; volcano on New Zealand; microgravity experiments with globules of liquid; views of Europe, clear view of Berlin; Merbold, zoom in to ESA badge; Reiter uses treadmill, catches drops of liquid in his mouth; Soyuz capsule re-enters Earth's atmosphere; recovery personnel in the Desert of Kasachstan; Reiter is carried from the capsule towards tent. </plain>

**Keywords** SPACE STATIONS,MANNED SPACEFLIGHT,EUROMIR

**Shotlist** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00000320

**Title:** Euromir 94/95 Index - English

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** English

**Production Date:** 04/15/1997

**Length:** 82

**Comments:** <plain>The Euromir missions involved the transfer of two European astronauts to the Russian space station Mir. Euromir '94, launched on 3rd October 1994, was a 31-day mission undertaken by the German astronaut Ulf Merbold. The follow-up mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by German astronaut Thomas Reiter. This video consists of a music clip followed by footage related to the missions. Commentaries are given by the two German astronauts. MUSIC CLIP includes the following images: astronauts performing EVA (Extra-Vehicular Activity), Earth background; Russian congress; silhouetted astronauts, wa towards rising sun; 1960s and contemporary Russian (Proton, Soyuz) launches; various shots of Soyuz TM carrier and Mir; in-orbit shots of Mir crews; astronauts undergoing pre-flight training; submersible training vessel in pool; toy floats off table in microgravity; Mir from remote operations arm; Soyuz re-entry. COMMENTARY FOOTAGE CONTAINS: mission patches; Star City, the Russian Training Site- ESA astronauts (Pedro Duque, Christer Fuglesang, Thomas Reiter, Ulf Merbold) training in gym, eating at table, leaving building on bicycles, suiting up for EVA training, submerged parts of Mir, greeting Russian cosmonauts wearing special underwear, climbing into Russian Orlan space suits, astronaut's face through visor, being helped on with bulky gloves, Merbold saying goodbye to family and friends (including Bill Ready, Helena Kandakova and Valentina Terechkova); boarding aeroplane, talking with Sigmund Jahn, disembarking to welcome committee; boarding coach, cosmodrome Baikonur, manned space flight museum; Juri Gagarin's house; Merbold and Sascha Viktorenko train on rotating chair, tip-table, Soyuz simulator; investigating Soyuz capsule in integration hall; traditional planting of tree by cosmonaut; Soyuz rocket and capsule being rolled to launchpad; cosmic forces personnel; launch raised to vertical position; traditional Russian quarters door-signing by Merbold; bus journey with police escort from Leninsk to cosmodrome; Merbold, Viktorenko and Elena Kondakova don Sokor space suits and report to General Ivanov, wave before ascending stairs to launcher elevator; Soyuz rocket launch (night); Soyuz capsule, Earth in background; first view of Mir; capsule docks with Mir, footage through windows and through docking camera; Kondakova and Polyakov repair electronics control unit; looking through Mir's windows using binoculars, views of Nile River, Red Sea, Mediterranean Sea in background, Arabian peninsula, Persian Gulf; drawing blood for biomedical experiments; objects float in microgravity; Merbold is rotated, closing his eyes as part of an experiment concerned with the vestibular organ; view of French Guyana; Merbold cleans his teeth, demonstrates Mir toilet, shaving, crew eats, donning anti-G pants; helicopter views of capsule landing with parachute; Merbold is helped from the capsule; Russian cosmonauts walk unsteadily; Merbold is served bread and salt at Arkalyk airport,

Kasachstan, and dressed in traditional robes, brass band; Merbold has the thickness of skin (i.e blood volume) measured on his forehead; returning crew greet relatives. Reiter training at Baikonur, being massaged; donning pressure suits; Russian launcher; elevator moves to capsule platform; launch of rocket, Soyuz docking with Mir crews open hatch and greet each other; views of interior of core module of Mir station, through module and into Soyuz capsule; trip through the space station - node, central control post, interface module; Reiter shows us around his sleeping module, looking through photographs on computer; zipping himself into sleeping bag; views of Earth - west coast of South America, coast of Chile, the Andes, Columbia, the southern part of South America, the river Rio de la Plata, Buenos Aires, Monte Video, the Brazilian rainforest; the Progress re-supply vessel; Reiter prepares food; more view Earth Spain; cutting hair using vacuum cleaner; views of Earth - southern Pacific, Cyprus<br> thunderclouds, atmosphere over the horizon; exercising - treadmills, ergometer; Atlantis (STS-74 mission) as seen through windows of Mir, connecting module, moving through tunnel which connects shuttle to Mir, back into core module of Mir; Reiter sits in flight deck of Atlantis; shuttle and Mir crews sit together; view of shuttle from Mir, more views of Earth - southern Italy, Sicily, Greece; Reiter does press-ups, first with one hand and then with no hands; view of Earth framed by Mir's windows - Kapstadt, Cape of good Hope, Africa, Namibian and Sahara deserts; suiting-up for EVA (Extra-Vehicular Activity), getting into Scafanda suits, exiting through hatch, astronaut with reflection of Mir in sun-visor; astronaut on end of crane, views of Earth from crane; volcano on New Zealand; microgravity experiments with globules of liquid; views of Europe, clear view of Berlin; Merbold, zoom in to ESA badge; Reiter uses treadmill, catches drops of liquid in his mouth; Soyuz capsule re-enters Earth's atmosphere; recovery personnel in the Desert of Kasachstan; Reiter is carried from the capsule towards tent. </plain>

**Keywords** SPACE STATIONS,MANNED SPACEFLIGHT,EUROMIR

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000320

**Title:** Euromir 94/95 Index - M/E only

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 04/15/1997

**Length** 82

**Comments** <plain>The Euromir missions involved the transfer of two European astronauts to the Russian space station Mir. Euromir '94, launched on 3rd October 1994, was a 31-day mission undertaken by the German astronaut Ulf Merbold. The follow-up mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by German astronaut Thomas Reiter. This video consists of a music clip followed by footage related to the missions. Commentaries are given by the two German astronauts. MUSIC CLIP includes the following images: astronauts performing EVA (Extra-Vehicular Activity), Earth background; Russian congress; silhouetted astronauts, wa towards rising sun; 1960s and contemporary Russian (Proton, Soyuz) launches; various shots of Soyuz TM carrier and Mir; in-orbit shots of Mir crews; astronauts undergoing pre-flight training; submersible training vessel in pool; toy caps floats off table in microgravity; Mir from remote operations arm; Soyuz re-entry. COMMENTARY FOOTAGE CONTAINS: mission patches; Star City, the Russian Training Site- ESA astronauts (Pedro Duque, Christer Fuglesang, Thomas Reiter, Ulf Merbold) training in gym, eating at table, leaving building on bicycles, suiting up for EVA training, submerged parts of Mir, greeting Russian cosmonauts wearing special underwear, climbing into Russian Orlan space suits, astronaut's face through visor, being helped on with bulky gloves, Merbold saying goodbye to family and friends (including Bill Ready, Helena Kandakova and Valentina Terechkova); boarding aeroplane, talking with Sigmund Jahn, disembarking to welcome committee; boarding coach, cosmodrome Baikonur, manned space flight museum; Juri Gagarin's house; Merbold and Sascha Viktorenko train on rotating chair, tip-table, Soyuz simulator; investigating Soyuz capsule in integration hall; traditional planting of tree by cosmonaut; Soyuz rocket and capsule being rolled to launchpad; cosmic forces personnel; launch raised to vertical position; traditional Russian quarters door-signing by Merbold; bus journey with police escort from Leninsk to cosmodrome; Merbold, Viktorenko and Elena Kondakova don Sokor space suits and report to General Ivanov, wave before ascending stairs to launcher elevator; Soyuz rocket launch (night); Soyuz capsule, Earth in background; first view of Mir; capsule docks with Mir, footage through windows and through docking camera; Kondakova and Polyakov repair electronics control unit; looking through Mir's windows using binoculars, views of Nile River, Red Sea, Mediterranean Sea in background, Arabian peninsula, Persian Gulf; drawing blood for biomedical experiments; objects float in microgravity; Merbold is rotated, closing his eyes as part of an experiment concerned with the vestibular organ; view of French Guyana; Merbold cleans his teeth, demonstrates Mir toilet, shaving, crew eats, donning anti-G pants; helicopter views of capsule landing with parachute; Merbold is helped from the capsule; Russian cosmonauts walk unsteadily; Merbold is served bread and salt at Arkalyk airport,

Kasachstan, and dressed in traditional robes, brass band; Merbold has the thickness of skin (i.e blood volume) measured on his forehead; returning crew greet relatives. Reiter training at Baikonur, being massaged; donning pressure suits; Russian launcher; elevator moves to capsule platform; launch of rocket, Soyuz docking with Mir crews open hatch and greet each other; views of interior of core module of Mir station, through module and into Soyuz capsule; trip through the space station - node, central control post, interface module; Reiter shows us around his sleeping module, looking through photographs on computer; zipping himself into sleeping bag; views of Earth - west coast of South America, coast of Chile, the Andes, Columbia, the southern part of South America, the river Rio de la Plata, Buenos Aires, Monte Video, the Brazilian rainforest; the Progress re-supply vessel; Reiter prepares food; more view Earth Spain; cutting hair using vacuum cleaner; views of Earth - southern Pacific, Cyprus<br> thunderclouds, atmosphere over the horizon; exercising - treadmills, ergometer; Atlantis (STS-74 mission) as seen through windows of Mir, connecting module, moving through tunnel which connects shuttle to Mir, back into core module of Mir; Reiter sits in flight deck of Atlantis; shuttle and Mir crews sit together; view of shuttle from Mir, more views of Earth - southern Italy, Sicily, Greece; Reiter does press-ups, first with one hand and then with no hands; view of Earth framed by Mir's windows - Kapstadt, Cape of good Hope, Africa, Namibian and Sahara deserts; suiting-up for EVA (Extra-Vehicular Activity), getting into Scafanda suits, exiting through hatch, astronaut with reflection of Mir in sun-visor; astronaut on end of crane, views of Earth from crane; volcano on New Zealand; microgravity experiments with globules of liquid; views of Europe, clear view of Berlin; Merbold, zoom in to ESA badge; Reiter uses treadmill, catches drops of liquid in his mouth; Soyuz capsule re-enters Earth's atmosphere; recovery personnel in the Desert of Kasachstan; Reiter is carried from the capsule towards tent. </plain>

**Keywords** SPACE STATIONS,MANNED SPACEFLIGHT,EUROMIR

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000322

**Title:** Artemis VNR

**Type:** Video Index

**Category:** VNR

**Language:** English

**Production Date:** 04/14/1997

**Length:** 15

**Comments:** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video is organised as follows: ARTEMIS STORY, including: animation sequences of the craft in Earth orbit; construction and testing (shaking) of satellite at ESTEC; NASDA (National Space Development Agency of Japan) pictures of Japanese rocket launch; graphics of launch sequence; Fucino ground station; general transport pictures (lorries, train, ferry etc.), laptop computer in lorry; graphics to illustrate satellite communications 'footprints' over globe; Envisat graphics to illustrate signal loss with "direct line of site" transmission to ground station; graphics to show how laser link between Envisat and Artemis will allow radio signals to be re-directed to ground stations. ARTEMIS INDEX, including: Artemis in orbit, graphic; Artemis construction at ESTEC; vibration testing; H2 launch, NASDA stills and graphics; Fucino Ground Station, satellite complex including dishes; transport - Eurostar, general traffic, passenger ferry, computers in car and lorry; mobile communication graphics and data-relay graphics; ENVISAT graphics: construction of SILEX laser; satellites in orbit, animation.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000323

**Title:** ESOC - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>A brief film describing the operations of ESOC, the European Space Operations Centre.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000323

**Title:** ESOC - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A brief film describing the operations of ESOC, the European Space Operations Centre.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000323

**Title:** ESOC - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A brief film describing the operations of ESOC, the European Space Operations Centre.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000323

**Title:** ESOC - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A brief film describing the operations of ESOC, the European Space Operations Centre.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000324

**Title:** Perspective Spacelink

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/01/1994

**Length** 27

**Comments** <plain>The question of how spending on space research c  
be justified is one which often arises. This documentary  
explains how the development of technologies for use in th  
space industry often results in spin-offs which can be utilis  
on Earth. After an introductory section covering the history  
spaceflight, the work of ESTEC ( Infrared Space Observatc  
and European Remote Sensing Satellite 2) and the Spacelink  
Europe Project, the film gives the following examples of  
technology transfer: -the development of sealant subseque  
to the Challenger disaster, and its use in industrial plants; -  
the manufacture of silica quilts for use in helicopter casing,  
originally designed to withstand heat on spacecraft re-entry  
-tetrahedral wedges use for robotic joining (on the  
forthcoming International Space Station), possible  
applications in the tools market; -spin-offs of satellite  
communications, antennae used in mobile communications;  
biomedical applications - algal photosynthesis, tiny pumps  
used in administration of hormones; nickel-titanium shape-  
memory alloys used in bone and cardiovascular surgery;  
rabfed sebsors in radiotherapy treatment; semiconducting  
polymer sensors (gas detection) for use in perfume and fo  
industries, also in pollution monitoring; image intensification  
technology on the Hubble Space Telescope and developme  
of the high observation photon counting camera, utilised for  
specialist biomedical observations. </plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000324

**Title:** Perspective Spacelink

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/01/1994

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space industry often results in spin-offs which can be utilis  
on Earth. After an introductory section covering the history  
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originally designed to withstand heat on spacecraft re-entry  
-tetrahedral wedges use for robotic joining (on the  
forthcoming International Space Station), possible  
applications in the tools market; -spin-offs of satellite  
communications, antennae used in mobile communications;  
biomedical applications - algal photosynthesis, tiny pumps  
used in administration of hormones; nickel-titanium shape-  
memory alloys used in bone and cardiovascular surgery;  
rabfed sebsors in radiotherapy treatment; semiconducting  
polymer sensors (gas detection) for use in perfume and fo  
industries, also in pollution monitoring; image intensification  
technology on the Hubble Space Telescope and developme  
of the high observation photon counting camera, utilised for  
specialist biomedical observations. </plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000325

**Title:** Ariane 4: Vol 33 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French and English

**Production Date:** 01/01/1989

**Length:** 103

**Comments:** <plain>ESA's Hipparcos astronomical satellite was launched on August 8th, 1989 by an Ariane 4 rocket (V33); the launch also carried a telecommunications satellite, TV-Sat. This video contains a live broadcast from Kourou, organised into the following footage: pre-launch operations room; graphic of Ariane flight; Arianespace company profile; general views CSG Kourou; launch preparation, deployment of one of TV-Sat's solar arrays and antenna dish, design and operation of TV-Sat 2, development and operation of Hipparcos (including graphics); synchronised launch sequence commences, split screen to show cryogenic arms and launcher on pad; launch delay, operations room footage; more split-screen footage - cryogenic arms, launcher on platform, head of operations; cryogenic arms move away, ignition and lift-off (night launch tracking graph of flight; general operations room footage; various ESA, Arianespace and government personnel give speeches. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000325

**Title:** Ariane 4: Vol 33 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French and English

**Production Date:** 01/01/1989

**Length:** 103

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**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000326

**Title:** Apollo 15

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000328

**Title:** STS-46: Eureka onboard photography

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 04/16/1993

**Length:** 17

**Comments** <plain>The joint ESA/NASA Atlantis mission STS-46, involving the deployment of the European Retrievable Carrier (Eureka), was launched in August 1992. This video contains 16mm footage shot on board the mission, and includes the following images: opening of payload bay doors; ESA's Claude Nicollier fits a camera in a window shroud; various views of the Eureka satellite on arm; various shots of crew flight deck; Eureka over Iraq, solar panels slightly extended; Eureka over Red Sea, panels extended; post-deploy Eureka tethered satellite system (TSS) boom structure extended, deploy of TSS; commander Loren Shriver manoeuvres the Orbiter; oscillation in tether at boom attachment; Jeff Hoffman with model of TSS, crew members at TSS science centre (monitor); views of Amazon Basin to show agriculture, smc and deforestation; tropical storm Javier in the Pacific Ocean; Baja, California, Pacific Coast of Mexico (Acapulco), Persian Gulf; various shots of crew - Nicollier subjected to ballistocardiography experiment, bicycle ergometer, Nicollier and Malerba play volleyball with inflatable birthday cake, vestibular experiment, changing camera batteries; moon over the horizon. </plain>

**Keywords** EURECA

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000331

**Title:** Euromir '95 Final

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 03/11/1996

**Length:** 22

**Comments:** <plain>The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, involved the transfer of the German astronaut Thomas Reiter to the Russian space station Mir. This film provides a summary of the mission, containing key images as follows: sign for Baikonur, camel grazing; Thomas Reiter signs door of quarters, as is the tradition; Russian rocket rolled along track, brought upright; Reiter gets into launch suit, waves, enters lift; launch; view of astronauts inside Soyuz capsule, view of Mir from capsule; view of Progress re-supply vessel; various views of Soyuz approaching Mir; opening hatch, astronauts embrace; space sunrise; Russian cosmonaut on ergometer; Reiter displays his living quarters, inserting disc into music player, looking at family photographs on computer; Videopolis (Eurodisney) link-up, children ask Reiter questions; view over Mir, showing the Earth's curvature; Reiter puts on virtual reality headgear (?); space sunrise; getting into Scafanda suits; various views of astronaut on remote arm, EVA activity; Reiter receives haircut, using Hoover to collect hair; Russian astronaut drinks treadmill experiment; view of American space shuttle (Atlantis, STS-74) from Mir; various views of docked modules; American and Russian crews, playing guitar; view of Florida; tour of inside of Mir, into space shuttle; Reiter carried from landing capsule. </plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000331

**Title:** Euromir '95 Final

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 03/11/1996

**Length:** 22

**Comments:** <plain>The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, involved the transfer of the German astronaut Thomas Reiter to the Russian space station Mir. This film provides a summary of the mission, containing key images as follows: sign for Baikonur, camel grazing; Thomas Reiter signs door of quarters, as is the tradition; Russian rocket rolled along track, brought upright; Reiter gets into launch suit, waves, enters lift; launch; view of astronauts inside Soyuz capsule, view of Mir from capsule; view of Progress re-supply vessel; various views of Soyuz approaching Mir; opening hatch, astronauts embrace; space sunrise; Russian cosmonaut on ergometer; Reiter displays his living quarters, inserting disc into music player, looking at family photographs on computer; Videopolis (Eurodisney) link-up, children ask Reiter questions; view over Mir, showing the Earth's curvature; Reiter puts on virtual reality headgear (?); space sunrise; getting into Scafanda suits; various views of astronaut on remote arm, EVA activity; Reiter receives haircut, using Hoover to collect hair; Russian astronaut drinks treadmill experiment; view of American space shuttle (Atlantis, STS-74) from Mir; various views of docked modules; American and Russian crews, playing guitar; view of Florida; tour of inside of Mir, into space shuttle; Reiter carried from landing capsule. </plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000332

**Title:** STS-84 Highlights - English

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 05/01/1997

**Length** 27

**Comments** <plain>The Atlantis mission STS-84 is scheduled for launch in May 1997. This mission will include the transfer of ESA's Jean-Francois Clervoy to the Russian space station Mir, another key step towards Europe's role as a partner in the International Space Station. This video index is organised as follows: The space shuttle Atlantis will dock with Mir in order to exchange crew members, deliver supplies and test new technologies. Clervoy, an ESA astronaut since 1992, will be making his second trip into space. European companies have developed two new navigational systems to guide the proposed ATV (Automated Transfer Vehicle), an unmanned supply vessel for use with the International Space Station (ISS) - these systems will be tested as NASA's systems guide the Atlantis/ Mir docking. Many onboard experiments are also European - whilst ESA's biorack facility will be used to observe the effects of reduced gravity and radiation on plants and cells, the Morphological Transition and Model Substances experiment (MOMO) will examine how material solidifies in the absence of gravity. THE STS-84 MISSION - footage of previous missions STS-71 and STS-66 (launch, Mir, Clervoy and other astronauts in-orbit); interview with Clervoy, Saturn rocket in background; ISS graphics, including Atlantis/ Mir docking; various shots of Mir and Shuttle; GPS (Global Positioning Satellites) animation; the European GPS test receiver, due to be tested during the docking procedure between Atlantis and Mir; animation to show how information collected on each craft's position will be sent back to Earth (and compared with their actual positions); various footage from previous missions (docking, Mir, crew members in microgravity); ESA's Biorack facility; crystal growth; general mission shots of shuttle, Mir, crews. JEAN-FRANCOIS CLERVOY: ESA ASTRONAUT - shuttle lift-off footage; interview with Clervoy, Saturn rocket in background; various shots of Clervoy on flight deck of Atlantis - pointing at map of France, exercising, emerging from sleeping compartment wearing graduation hat, on shuttle flight deck; interview with Clervoy; Clervoy and family - playing football, in front of American rocket; shuttle/ Mir docking footage; ISS graphic. PREPARING FOR THE INTERNATIONAL SPACE STATION - long range shots of Mir in orbit; graphics of the ISS; manual docking sequences from previous shuttle missions, split screen docking target shots; graphic sequence to show start of ATV docking; animation to show the function of GPS satellites; receiver test model; animation to show how information collected on each craft's position will be sent back to Earth (and compared with their actual positions); various docking footage; test model of apparatus which sends and receives laser light in visual docking sequence; graphic of laser docking; ISS docking graphic. SCIENCE PAYLOAD - shuttle in orbit with Earth in background; various shuttle pictures including biorack; time-lapse photography of seed growth in microgravity; MOMO-related material - crystal formation, convection currents; solar wind graphics, sun shots; radiation monitoring on board shuttle.</plain>

**Keywords** SPACE STATIONS,SHUTTLE MISSIONS,MANNED SPAC

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000332

**Title:** STS-84 Highlights - Francais

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** French

**Production Date** 05/01/1997

**Length** 27

**Comments** <plain>The Atlantis mission STS-84 is scheduled for launch in May 1997. This mission will include the transfer of ESA's Jean-Francois Clervoy to the Russian space station Mir, another key step towards Europe's role as a partner in the International Space Station. This video index is organised as follows: The space shuttle Atlantis will dock with Mir in order to exchange crew members, deliver supplies and test new technologies. Clervoy, an ESA astronaut since 1992, will be making his second trip into space. European companies have developed two new navigational systems to guide the proposed ATV (Automated Transfer Vehicle), an unmanned supply vessel for use with the International Space Station (ISS) - these systems will be tested as NASA's systems guide the Atlantis/ Mir docking. Many onboard experiments are also European - whilst ESA's biorack facility will be used to observe the effects of reduced gravity and radiation on plants and cells, the Morphological Transition and Model Substances experiment (MOMO) will examine how material solidifies in the absence of gravity. THE STS-84 MISSION - footage of previous missions STS-71 and STS-66 (launch, Mir, Clervoy and other astronauts in-orbit); interview with Clervoy, Saturn rocket in background; ISS graphics, including Atlantis/ Mir docking; various shots of Mir and Shuttle; GPS (Global Positioning Satellites) animation; the European GPS test receiver, due to be tested during the docking procedure between Atlantis and Mir; animation to show how information collected on each craft's position will be sent back to Earth (and compared with their actual positions); various footage from previous missions (docking, Mir, crew members in microgravity); ESA's Biorack facility; crystal growth; general mission shots of shuttle, Mir, crews. JEAN-FRANCOIS CLERVOY: ESA ASTRONAUT - shuttle lift-off footage; interview with Clervoy, Saturn rocket in background; various shots of Clervoy on flight deck of Atlantis - pointing at map of France, exercising, emerging from sleeping compartment wearing graduation hat, on shuttle flight deck; interview with Clervoy; Clervoy and family - playing football, in front of American rocket; shuttle/ Mir docking footage; ISS graphic. PREPARING FOR THE INTERNATIONAL SPACE STATION - long range shots of Mir in orbit; graphics of the ISS; manual docking sequences from previous shuttle missions, split screen docking target shots; graphic sequence to show start of ATV docking; animation to show the function of GPS satellites; receiver test model; animation to show how information collected on each craft's position will be sent back to Earth (and compared with their actual positions); various docking footage; test model of apparatus which sends and receives laser light in visual docking sequence; graphic of laser docking; ISS docking graphic. SCIENCE PAYLOAD - shuttle in orbit with Earth in background; various shuttle pictures including biorack; time-lapse photography of seed growth in microgravity; MOMO-related material - crystal formation, convection currents; solar wind graphics, sun shots; radiation monitoring on board shuttle.</plain>



**Keywords** SPACE STATIONS,SHUTTLE MISSIONS,MANNED SPAC

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000337

**Title:** ISO: Science Update '97

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** English, French,

**Production Date** 04/30/1997

**Length:** 10

**Comments** <plain>ESA's ISO (Infrared Space Observatory) was launched on November 17th, 1995 (Ariane V80). This index summarises the new scientific findings of the instrument, and explains how we can now detect the presence of water in Milky Way and elsewhere in the universe - on Saturn, Uran and Neptune, for example. The video contains both English and French versions, and is composed of animations, ISO images and interviews. The French version contains coverage of the V80 rocket launch, and extended footage of this may be found in the B-roll. </plain>

**Keywords** SPACE SCIENCE,ISO

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000338

**Title:** Rosetta: Science Update '97

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French and English

**Production Date:** 04/02/1997

**Length:** 12

**Comments:** <plain>ESA's Rosetta mission, due to be launched by Ariane 5 in January 2003, will spend eight years positioning ultra-sensitive equipment to observe Comet Wirtanen. Rosetta will rendezvous with the comet in 2011; in April 2012, it will go into a near orbit around Comet Wirtanen and escort it for 17 months as it flies towards its closest approach with the Sun on September 2113. Ultimately, Rosetta will map and examine the entire surface of Wirtanen using remote-sensing. In addition, a lander will be dropped onto the comet's surface, investigating physical condition and chemical composition. This video index covers the following topics: ESA's ISO and its role in studying Hale-Bopp; how comets may have played a key role in the formation of Earth and the other planets in our solar system; the Rosetta mission. The index contains interviews, animations, ISO images and footage of instruments to be carried onboard Rosetta; the B-roll contains a more complete set of graphics.</plain>

**Keywords:** SPACE SCIENCE,ROSETTA

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000339

**Title:** EVA Space Suit 2000: version two

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 01/01/1994

**Length:** 9

**Comments:** <plain> A short film focussing on the EVA (extravehicular activity) Space Suit 2000. Using the visual examples of EVA during the Hubble servicing and Mir repair missions, the importance of space suit function is highlighted. Development of the joint RKA (Russian Space Agency) and ESA suit is put into a context of increased EVA-hours with the setting-up of the International Space Station. The suit is compared to existing EMU and Orlan designs.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000341

**Title:** SOHO: Science Update '97 - English

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 02/01/1997

**Length** 9

**Comments** <plain>ESA's SOHO (Solar and Heliospherical Observatory astronomical satellite was launched on December 2nd, 1997. This video gives a short account of the purpose of the SOHO mission, along with a summary of the findings so far. Images recorded by the satellite are utilised, along with computer graphics and interviews.</plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000341

**Title:** SOHO: Science Update '97 - Francais

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** French

**Production Date** 02/01/1997

**Length** 9

**Comments** <plain>ESA's SOHO (Solar and Heliospherical Observatory astronomical satellite was launched on December 2nd, 1997. This video gives a short account of the purpose of the SOHO mission, along with a summary of the findings so far. Images recorded by the satellite are utilised, along with computer graphics and interviews.</plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000343

**Title:** Introduction to Huygens Index '97

**Type:** Edited Video

**Category:** VNR

**Language** English and French

**Production Date** 04/01/1997

**Length:** 9

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. This index outlines how the probe is being developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finally encounters. The video contains many animated sequences, and holds version in both French and English.</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000345

**Title:** Envisat 1: Selected Shots

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 02/01/1997

**Length** 26

**Comments** <plain>Construction of the various components of ESA's environmental monitoring satellite, Envisat, at various locations throughout Europe. The video contains selected shots as follows: structure model rotating shots, speeded up (Estec, Netherlands); service module rotating shot, speeded up (Estec, Netherlands); transfer of service module to platform integration stand (Estec, Netherlands); tilting service module on platform integration stand, speeded up (Estec, Netherlands); tilting service module on platform integration stand (Estec, Netherlands); service module passing in front of structure model (Estec, Netherlands); structure model moving to platform integration stand (Estec, Netherlands); tilting structure model, speeded up (Estec, Netherlands); tilting structure model (Estec, Netherlands); service module build (Matra Marconi, UK); advanced synthetic aperture radar (ASAR) design, testing and construction (Matra Marconi, UK); advanced synthetic aperture radar, model array (Matra Marconi, UK); central electronics sub-assembly (CESA) testing (Alenia Spazio, Italy); platform equipment bay assembly and testing (Dornier GmbH, Germany); sciamachy assembly and testing (Dornier GmbH, Germany); ASAR graphic sequences - ASAR and CESA location, ASAR deployment, beam shaping and control, global monitoring, image mode plus close up cutaway, alternating polarisation mode, wave mode, </plain>

**Keywords** REMOTE SENSING,ENVISAT

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000347

**Title:** Hipparcos: Science Update May '97

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** English and French

**Production Date:** 05/01/1997

**Length:** 17

**Comments:** <plain>ESA's astronomical instrument Hipparcos (High Precision Parallax Collection Satellite) was launched in August of 1989, collecting information about the stars for a period of four years. Today, the Hipparcos catalogue contains information on approximately 120,000 stars; locations are given 120 times more accurately than was possible before mission. This video update gives an outline of the Hipparcos mission - its strategy, results and importance to a wide range of space science applications. Graphics and interviews are used throughout; English and French versions are given. Interviewees: Dr. Michael Perryman, ESA Project Scientist, Hipparcos; Catherine Turon, Responsable Catalogue Hipparcos, Observatoire de Paris-Meudon; Roger Bonnet, Directeur Programme Scientifique, ESA.</plain>

**Keywords:** SPACE SCIENCE,HIPPARCOS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000349

**Title:** Hipparcos: Route Maps to the Stars May '97

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 05/05/1997

**Length:** 15

**Comments:** <plain>A review of ESA's astrometrical mission, Hipparcos (High Precision Parallax-Collecting Satellite), launched on the 8th August 1989. This highly graphic presentation explains how Hipparcos was able to locate stars approximately 100 times more accurately than is possible from the ground. The principle of parallax is outlined, along with the methods used by the instrument to gather information. Data analysis is covered, using examples such as the collision between the comet Shoemaker-Levy and the planet Jupiter to illustrate the revolutionary accuracy provided by Hipparcos. The documentary also provides some specific information on the dynamics, composition and geography of our galaxy in light of the satellite's findings.</plain>

**Keywords:** SPACE SCIENCE,HIPPARCOS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000350

**Title:** Ariane 5 Index: le bourget '95

**Type:** Video Index

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000351

**Title:** Ariane 5: Preparing For The First Launch

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>The first Ariane 5 launch (V88) is due to be launched in June 1996. This index contains the following images: model of Ariane 5 launcher; Vulcan engine; countdown; night launch simulation of Ariane 5 launch; animation of sequence leading to ATV (Automated Transfer Vehicle) docking with ISS (International Space Station); animation of launch sequence (fairing separation, cryogenic main stage separation, satellite deployment); test firing of engines; helicopter footage of test firing; solid fuel stage being rolled along track, general helicopter views of CSG Kourou, launcher in construction tower; entrance to Centre Spatiale Guyanis; drawing board plans of the launcher; testing fairing separation in vacuum chamber; various cleanroom footage, construction of various components; testing of solid rocket ignitors; various precision work on rocket components.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000353

**Title:** Cassini-Huygens - English

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 03/01/1997

**Length:** 9

**Comments:** <plain>In October 1997, NASA will launch Cassini Huygens a joint project developed with ESA which will provide a detailed study of the Saturnian system. The Cassini spacecraft comprises the NASA-designed Saturn Orbiter and ESA's Huygens probe. Huygens is a fully-automatic laboratory fitted with six scientific instruments. Its mission is to explore Saturn's largest moon, Titan, which has a hydrocarbon-rich atmosphere with a complex system of methane-nitrogen photochemistry. Titan's atmosphere is thought to be similar to that of the Earth just after the formation of the solar system. This short, highly animated film details the mission, along with a brief description of the Saturnian system using photographs taken by Voyager 1. An outline is given of how Huygens is scheduled to reach Saturn in June 2004, coasting towards Titan before making its final descent by parachute. During this descent, the physical characteristics and chemical composition of Titan will be analysed; ultimately, the probe will reach the moon's surface giving some information as to its structure. In the final section of the film, commentaries are given by John Zarnecki, principal investigator for the mission, and Roger Bonnet, ESA's science director. </plain>

**Keywords:** SPACE SCIENCE,HUYGENS

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00000353

**Title:** Cassini-Huygens - Francais

**Type:** Edited Video

**Category:** VNR

**Language:** French

**Production Date:** 03/01/1997

**Length:** 9

**Comments:** <plain>In October 1997, NASA will launch Cassini Huygens a joint project developed with ESA which will provide a detailed study of the Saturnian system. The Cassini spacecraft comprises the NASA-designed Saturn Orbiter and ESA's Huygens probe. Huygens is a fully-automatic laboratory fitted with six scientific instruments. Its mission is to explore Saturn's largest moon, Titan, which has a hydrocarbon-rich atmosphere with a complex system of methane-nitrogen photochemistry. Titan's atmosphere is thought to be similar to that of the Earth just after the formation of the solar system. This short, highly animated film details the mission, along with a brief description of the Saturnian system using photographs taken by Voyager 1. An outline is given of how Huygens is scheduled to reach Saturn in June 2004, coasting towards Titan before making its final descent by parachute. During this descent, the physical characteristics and chemical composition of Titan will be analysed; ultimately, the probe will reach the moon's surface giving some information as to its structure. In the final section of the film, commentaries are given by John Zarnecki, principal investigator for the mission, and Roger Bonnet, ESA's science director. </plain>

**Keywords:** SPACE SCIENCE,HUYGENS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000355

**Title:** Ariane 4: Vol 56 Campaign Video

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 01/01/1993

**Length:** 22

**Comments:** <plain>The Ariane V56 rocket, carrying the Astra 1C and Arsene payloads, was launched on May 12th 1993. Using graphics and live-action footage, this video provides image of the whole campaign. Organised as follows: animations of the Astra telecommunications satellite project; animations of the Arsene project; delivery (by Aeroplane) of Arsene components, workers wear Aerospatiale caps; cleanroom footage of Arsene assembly; various shots of Ariane 4 launcher in assembly building; working on solid fuel booster; delivery of Astra 1-C satellite components; cleanroom footage of Astra 1-C construction; payload fairing being fitted around satellite; installation of electronics 'ring'; integration of solid fuel boosters onto launcher; more footage of Arsene assembly; various shots of launcher being wheeled to launchpad, cryogenic arms close; cleanroom footage of satellite construction, workers wear protective suits; closing fairing, Astra and Arsene logos; payload bay on back of launcher; payload bay on hoist; payload bay integration; launcher on launchpad; control room footage - countdown, night launch with various camera angles (cryogenic arms open, etc.); various technical angles - rockets firing, arms opening and on in slow motion. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000358

**Title:** Ariane 4: Vol 59 Campaign Video

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 01/01/1993

**Length** 17

**Comments** <plain>The Ariane V59 rocket, carrying the Spot 3, Stella ar ASAP payloads, was launched on September 26th 1993. Using graphics and live-action footage, this video provides images of the whole campaign. Organised as follow s: Spot satellite components arrive; cleanroom footage, assembly c satellite, workers with Matra Marconi Space logo on overall launcher in construction building, raised to vertical position; various shots of launcher assembly, assembly of various electrical components; satellite integrated into payload bay; launcher rolled out to launchpad, arms close; payload bay carried on lorry; Arianespace workers (logos) in protective suits; more cleanroom assembly footage; joining payload fairing; payload bay lifted length of launcher on hoist; integration of payload bay onto launcher; fairing, various logos; launcher on launchpad; countdown, various footage night launch (arms open, etc.); control room footage, applause as various payloads separate; slow-motion launch. </plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000360

**Title:** Hipparcos Launch

**Type:** Edited Video

**Category:** VNR

**Language** English

**Production Date** 05/13/1997

**Length** 7

**Comments** <plain>The Ariane V33 rocket, bearing ESA's atronomical satellite Hipparcos along with TV-sat 2, was launched on August 8th 1989. This video contains coverage of the launc organised as: a triple image of Ariane 4 on the launchpad, directeur operations (Mr. Jacques Bouchet), status panel; tl start of the launch window; the final countdown, cryogenic arms fail to open; Charles Bigot, directeur general of Arianespace, gives an explanation (English V/O translation) final countdown, ignition and takeoff; IR tracking graph superimposed over control room footage, applause; launch replay footage. </plain>

**Keywords** SPACE SCIENCE,HIPPARCOS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000363

**Title:** STS-84: Launch

**Type:** Video Index

**Category:** VNR

**Language:** English

**Production Date:** 05/15/1997

**Length:** 20

**Comments:** <plain>The STS-84 Atlantis mission was launched on May 15th 1997. Atlantis is scheduled to carry out the sixth docki with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy, from France, makes his second trip into space. The footage on this video is arranged as follows: view of pre-launch assembly; astron sit round dinner-table, camera focusses on each crew member in turn; crew are suited-up; leaving operations and checkout building; crew travel in bus to launchpad, ignitor and lift-off; mid-flight tracker footage of boosters firing; soli rocket booster separation; launch replays - various footage night launch. </plain>

**Keywords:** SHUTTLE MISSIONS,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000364

**Title:** Medes: Long-Duration Bedrest Studies.

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 00/00/00

**Length:** 6

**Comments:** <plain>A documentary illustrating the way in which "bedres experiments on Earth compliment biomedical research carried out in space to explore the way in which the body adapts itself to a long-duration microgravity situation. The video contains footage of in-flight experimentation and stud on voluntary subjects on Earth. Interviews are conducted v Rene Bost Medes, who describes the rationale behind the bedrest research, and with the volunteers, who describe th experiences. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000366

**Title:** Euromir '95: Post-Flight Update

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 27

**Comments:** <plain>The Euromir missions involve the transfer of European astronauts to the Russian space station Mir. The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thomas Reiter. This compilation covers pre-flight training, launch, and post-flight conference. Key images as follows: Reiter jogging, general views of Baikonur training centre; using the Mir training module; Reiter using video oculo-graph headset, eyeball displayed on screen; being massaged; general views of Proton rocket being prepared for launch; crew are presented with sketches of themselves; with relatives prior to launch; traditional door-signing; crew are suited-up; ascending rocket in lift; Proton launch; post-launch interviews.</plain>

**Keywords:** RKA,MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000367

**Title:** Euromir '95: Update

**Type:** Video Index

**Category:** VNR

**Language:** English

**Production Date:** 11/01/1995

**Length:** 16

**Comments:** <plain>The Euromir missions involve the transfer of European astronauts to the Russian space station Mir. The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thomas Reiter. This compilation contains images of: Baikonur, the location for the Russian cosmonaut training centre; Reiter performs traditional door-signing; Proton rocket wheeled to launch site, launch sequence; various views of and Soyuz carrier; docking, opening hatch, astronauts greet each other; in-flight conference with crew of Mir; Reiter hovering; Eurodisney parade, Videopolis live link-up footage; Reiter plays guitar; EVA activity. This update was produced for TV networks whilst Reiter was aboard Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000370

**Title:** Ariane 4: Vol 92 Campaign Long

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The Ariane V92 rocket, carrying the Arabsat 2B and Measat 2 payloads, was launched on November 13th 1996. Using graphics and live-action footage, this video provides images of the whole campaign. Arranged as follows: the M Toucan vessel, delivery of Ariane 4; launcher integrated into assembly building; integration of various components; arrival (by plane) of Arabsat 11B; cleanroom footage, Arabsat on handling dolly; arrival Measat 2, various cleanroom footage; launcher rolled towards launchpad; pre-launch assembly, cryogenic arms close; integration of satellite into payload bay; payload fairing shut; general views of mission control; picturesque slow-motion footage of night launch. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000370

**Title:** Ariane 4: Vol 92 Campaign Long

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The Ariane V92 rocket, carrying the Arabsat 2B and Measat 2 payloads, was launched on November 13th 1996. Using graphics and live-action footage, this video provides images of the whole campaign. Arranged as follows: the M Toucan vessel, delivery of Ariane 4; launcher integrated into assembly building; integration of various components; arrival (by plane) of Arabsat 11B; cleanroom footage, Arabsat on handling dolly; arrival Measat 2, various cleanroom footage; launcher rolled towards launchpad; pre-launch assembly, cryogenic arms close; integration of satellite into payload bay; payload fairing shut; general views of mission control; picturesque slow-motion footage of night launch. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000371

**Title:** Ariane 4: Vol 74 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>The Ariane V74 (42P) rocket, bearing the DBS-3 satellite, was launched on June 9th, 1995. This film covers the whole campaign, from component delivery to launch. Images are arranged as follows: delivery of launcher components, Ariane vessel; launcher raised upright in assembly building; delivery (by plane) of satellite component assembly; launcher towed on back of truck; various views of launch tower; cryogenic arms close around launcher; various views satellite integration into payload bay; payload stage towed on back of truck, "DirecTV" logo clearly visible; payload bay hoisted to top of launcher; construction tower rolled away from launcher; meteorological station; man releases weather balloon; meteorological analysts work with computers; control room, various shots; countdown, night launch, control room footage with tracking graph superimposed, various technical footage of launch.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000374

**Title:** Know-How To Make Better Cars - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 05/29/1997

**Length** 36

**Comments** <plain>A documentary illustrating some of the technological spin-offs from the space industry into car manufacturing. Organised as follows: ROCKET POWER FOR CAR ENGINES? a look at how technologies developed for rocket propulsion are also used in the automotive industry - seals for fuel pumps, engine cooling tubes, and shape memory alloys to optimize the performance of catalytic converters. SPACE TECHNOLOGY, NO LUXURY - composite materials and plastic panelling used in car bodyworks, also resin and carbon fibre; carbon-carbon used in brake discs for racing cars and aircraft. RATHER SCIENCE THAN FICTION - the development of electric fuel cells for cars; use of carbon-carbon discs in braking; fuel injection systems for cars; thermal insulation microfibre/ceramic insulation material, used as exhaust silencers; the use of shape-memory alloys in catalytic converters; electron bombardment to create a metallised coating of helmet visors in fighter pilots, windscreens in cars to transmit data, transparent heating systems; electro-coating with molybdenum disulphide to reduce friction coefficient, translated into the automobile industry; gallium arsenide diodes, used in car radar systems; software systems for integration into cars; photovoltaic cells, solar-powered car. SMALL PARTS WITH BIG EFFECTS - robotics in the car manufacturing industry; Krypton simulation software programme; crystallisation of metal alloys; the use of silicon and manganese aluminium alloys by Audi; the use of pyrotechnics in safety cushions and seatbelts; the use of GPS satellites in road navigation; electromagnetic field influences on cars, monitoring of; micro-coating of metals for car headlamps.</plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000374

**Title:** Know-How To Make Better Cars - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 05/29/1997

**Length** 36

**Comments** <plain>A documentary illustrating some of the technological spin-offs from the space industry into car manufacturing. Organised as follows: ROCKET POWER FOR CAR ENGINES? a look at how technologies developed for rocket propulsion are also used in the automotive industry - seals for fuel pumps, engine cooling tubes, and shape memory alloys to optimize the performance of catalytic converters. SPACE TECHNOLOGY, NO LUXURY - composite materials and plastic panelling used in car bodyworks, also resin and carbon fibre; carbon-carbon used in brake discs for racing cars and aircraft. RATHER SCIENCE THAN FICTION - the development of electric fuel cells for cars; use of carbon-carbon discs in braking; fuel injection systems for cars; thermal insulation microfibre/ceramic insulation material, used as exhaust silencers; the use of shape-memory alloys in catalytic converters; electron bombardment to create a metallised coating of helmet visors in fighter pilots, windscreens in cars to transmit data, transparent heating systems; electro-coating with molybdenum disulphide to reduce friction coefficient, translated into the automobile industry; gallium arsenide diodes, used in car radar systems; software systems for integration into cars; photovoltaic cells, solar-powered car. SMALL PARTS WITH BIG EFFECTS - robotics in the car manufacturing industry; Krypton simulation software programme; crystallisation of metal alloys; the use of silicon and manganese aluminium alloys by Audi; the use of pyrotechnics in safety cushions and seatbelts; the use of GPS satellites in road navigation; electromagnetic field influences on cars, monitoring of; micro-coating of metals for car headlamps.</plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000374

**Title:** Know-How To Make Better Cars - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 05/29/1997

**Length** 36

**Comments** <plain>A documentary illustrating some of the technological spin-offs from the space industry into car manufacturing. Organised as follows: ROCKET POWER FOR CAR ENGINES? a look at how technologies developed for rocket propulsion are also used in the automotive industry - seals for fuel pumps, engine cooling tubes, and shape memory alloys to optimize the performance of catalytic converters. SPACE TECHNOLOGY, NO LUXURY - composite materials and plastic panelling used in car bodyworks, also resin and carbon fibre; carbon-carbon used in brake discs for racing cars and aircraft. RATHER SCIENCE THAN FICTION - the development of electric fuel cells for cars; use of carbon-carbon discs in braking; fuel injection systems for cars; thermal insulation microfibre/ceramic insulation material, used as exhaust silencers; the use of shape-memory alloys in catalytic converters; electron bombardment to create a metallised coating of helmet visors in fighter pilots, windscreens in cars to transmit data, transparent heating systems; electro-coating with molybdenum disulphide to reduce friction coefficient, translated into the automobile industry; gallium arsenide diodes, used in car radar systems; software systems for integration into cars; photovoltaic cells, solar-powered car. SMALL PARTS WITH BIG EFFECTS - robotics in the car manufacturing industry; Krypton simulation software programme; crystallisation of metal alloys; the use of silicon and manganese aluminium alloys by Audi; the use of pyrotechnics in safety cushions and seatbelts; the use of GPS satellites in road navigation; electromagnetic field influences on cars, monitoring of; micro-coating of metals for car headlamps.</plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000374

**Title:** Know-How To Make Better Cars - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 05/29/1997

**Length** 36

**Comments** <plain>A documentary illustrating some of the technological spin-offs from the space industry into car manufacturing. Organised as follows: ROCKET POWER FOR CAR ENGINES? a look at how technologies developed for rocket propulsion are also used in the automotive industry - seals for fuel pumps, engine cooling tubes, and shape memory alloys to optimize the performance of catalytic converters. SPACE TECHNOLOGY, NO LUXURY - composite materials and plastic panelling used in car bodyworks, also resin and carbon fibre; carbon-carbon used in brake discs for racing cars and aircraft. RATHER SCIENCE THAN FICTION - the development of electric fuel cells for cars; use of carbon-carbon discs in braking; fuel injection systems for cars; thermal insulation microfibre/ceramic insulation material, used as exhaust silencers; the use of shape-memory alloys in catalytic converters; electron bombardment to create a metallised coating of helmet visors in fighter pilots, windscreens in cars to transmit data, transparent heating systems; electro-coating with molybdenum disulphide to reduce friction coefficient, translated into the automobile industry; gallium arsenide diodes, used in car radar systems; software systems for integration into cars; photovoltaic cells, solar-powered car. SMALL PARTS WITH BIG EFFECTS - robotics in the car manufacturing industry; Krypton simulation software programme; crystallisation of metal alloys; the use of silicon and manganese aluminium alloys by Audi; the use of pyrotechnics in safety cushions and seatbelts; the use of GPS satellites in road navigation; electromagnetic field influences on cars, monitoring of; micro-coating of metals for car headlamps.</plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000376

**Title:** Arianespace

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 8

**Comments:** <plain>Formed in 1980 as the the first industrial and commercial space transportation company in the World, Arianespace operates the highly successful Ariane launch system, developed by the French space agency CNES on behalf of ESA. There are approximately 10 Ariane launches per year. This production gives an outline of Arianespace - its industrial and scientific applications, manufacturing structure, and sub-assembly contractors. The launch complex at Kourou, French Guiana is described, along with summary of the stages of launcher construction, satellite preparation, launch and payload deployment. </plain>

**Keywords** LAUNCHERS,ARIANE 5,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000376

**Title:** Arianespace

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 8

**Comments:** <plain>Formed in 1980 as the the first industrial and commercial space transportation company in the World, Arianespace operates the highly successful Ariane launch system, developed by the French space agency CNES on behalf of ESA. There are approximately 10 Ariane launches per year. This production gives an outline of Arianespace - its industrial and scientific applications, manufacturing structure, and sub-assembly contractors. The launch complex at Kourou, French Guiana is described, along with summary of the stages of launcher construction, satellite preparation, launch and payload deployment. </plain>

**Keywords** LAUNCHERS,ARIANE 5,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000377

**Title:** STS-84 Mission Overview

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 33

**Comments:** <plain>The STS-84 Atlantis mission will be launched on May 15th 1997. Atlantis is scheduled to carry out the sixth dock with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy, from France, will make his second trip into space on this mission. This video provides a pre-flight overview of the sixth Atlantis-Mir dock. The main speaker is Phil Engelauf, lead flight director for the mission; charts give a breakdown of various on-board experiments, flight plan overview and so on. There are also animations to show the docking procedure, and questions from the Kennedy Space Centre audience.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000379

**Title:** STS-84: Docking Animation

**Type:** Edited Video

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>The STS-84 Atlantis mission will be launched on May 15th 1997. Atlantis is scheduled to carry out the sixth dock with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy, from France, will make his second trip into space on this mission. This video contains graphics of the Atlantis shuttle docking/undocking with the Mir space station.</plain>

**Keywords:** SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000380

**Title:** STS-84: Clervoy Pre-Flight Interview

**Type:** Edited Video

**Category:** Interviews

**Language:** English

**Production Date:** 00/00/00

**Length:** 9

**Comments:** <plain>The STS-84 Atlantis mission will be launched on May 15th 1997. Atlantis is scheduled to carry out the sixth docking with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy, from France, will make his second trip into space on this mission. In this video, he is interviewed about the forthcoming flight.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000381

**Title:** Euromir '95: Mission Overview

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 43

**Comments:** <plain>The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, involved the transfer of the German astronaut Thomas Reiter to the Russian space station Mir. This film provides a summary of the mission, containing key images as follows: Reiter and colleague cycle through grounds of Star City, Baikonur; Reiter speaks Russian in class; training in Soyuz simulator; Mir simulator in pool; Reiter climbs into EVA (Extra-Vehicular Activity) suit; swimming, jogging, training with weights; Proton rocket raises to vertical position; suiting-up, waving, launch; astronauts during ascent; Mir, Earth in background, Soyuz vehicle; docking; opening hatch, astronauts greet each other; Reiter floats through Mir; space sunrise; Reiter demonstrates his living quarters; using ergometer, screen output; injecting flu from syringe into petri dish, screwing camera together; approaching re-supply vehicle; Reiter jogs on conveyor belt various exercising; Russian cosmonaut drinks; Reiter in pressure sensor-suit; using touch-sensitive computer screen apparatus which clicks as it monitors Reiter's leg movement; Reiter uses video oculo-graphy headset, eyeball monitored on screen; setting moon; EVA 1 (20 Oct) - Reiter and colleague suit up, EVA footage; Reiter demonstrates food, rehydration; Mir crew use ergometers; Reiter has haircut; view from window over solar panel; playing guitars; shuttle visit (15 Nov) - various views of shuttle, craft docking, opening hatch; astronauts greet each other on the Cristal side of the docking module interface, various views Mir, crew link-up press conference, Russian cosmonauts in flight deck of shuttle, tour through Mir, crews play guitar and sing together; Reiter activates various experiments, including fluid flow experiment; various exercising; Reiter plays music on personal stereo, types message on computer, straps instrument to leg (bone density measurement?); Reiter gets into sleeping bag; Earthviews; EVA 11 (8 Feb), astronaut on remote operator arm, various EVA footage<br> Reiter does press-ups; approaching Soyuz; Reiter swings from side to side in monitoring apparatus; ground crew stand around Soyuz in snow, Reiter is carried from vehicle. Produced after Reiter's return to Earth.</plain>

**Keywords:** RKA,MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000382

**Title:** Cassini-Huygens: Science Update March '97

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** French and English

**Production Date:** 05/01/1997

**Length:** 18

**Comments:** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. The probe is being developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finds encounters. The video contains the following images - cleanroom footage, coated representatives of ESA, Daimler Benz Aerospace and Aerospatiale attach compact disc to Huygens probe; animated sequences to illustrate mission; interview, more cleanroom footage; photographs of Saturn; animation of descent of Huygens probe; Voyager photograph of Titan. English version follows (00:06:18:00), plus B-roll (00:09:21:00). </plain>

**Keywords:** SPACE SCIENCE,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000383

**Title:** ESA Bourget '97

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** ME only

**Production Date:** 06/11/1997

**Length:** 7

**Comments:** <plain>A short, highly graphic presentation of ESA covering satellites, launchers, manned spaceflight and science. Graphic overlays are used to annotate each section.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000383

**Title:** ESA Bourget '97

**Type:** Edited Video

**Category:** Documentary, general public

**Language** M/E only

**Production Date** 06/11/1997

**Length:** 7

**Comments** <plain>A short, highly graphic presentation of ESA covering satellites, launchers, manned spaceflight and science. Graphic overlays are used to annotate each section.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000385

**Title:** ESA: Le Bourget '97 VNR 1 - Deutsch

**Type:** Edited Video

**Category:** VNR

**Language** German

**Production Date** 06/13/1997

**Length:** 6

**Comments** <plain>The newly-appointed Antonio Rodota gives a short statement on his move from Industry Manager of the Italian firm Alenia Spazio to Director-General of ESA. Cut with clip of le Bourget (Paris Airshow) and satellite construction.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000385

**Title:** ESA: Le Bourget '97 VNR 1 - English

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 06/13/1997

**Length:** 6

**Comments:** <plain>The newly-appointed Antonio Rodota gives a short statement on his move from Industry Manager of the Italian firm Alenia Spazio to Director-General of ESA. Cut with clip of le Bourget (Paris Airshow) and satellite construction.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000385

**Title:** ESA: Le Bourget '97 VNR 1 - Francais

**Type:** Edited Video

**Category:** VNR

**Language:** French

**Production Date:** 06/13/1997

**Length:** 6

**Comments:** <plain>The newly-appointed Antonio Rodota gives a short statement on his move from Industry Manager of the Italian firm Alenia Spazio to Director-General of ESA. Cut with clip of le Bourget (Paris Airshow) and satellite construction.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000385

**Title:** ESA: Le Bourget '97 VNR 1 - Italiano

**Type:** Edited Video

**Category:** VNR

**Language** Italian

**Production Date** 06/13/1997

**Length:** 6

**Comments** <plain>The newly-appointed Antonio Rodota gives a short statement on his move from Industry Manager of the Italian firm Alenia Spazio to Director-General of ESA. Cut with clip of le Bourget (Paris Airshow) and satellite construction.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000385

**Title:** ESA: Le Bourget '97 VNR 1 - English

**Type:** Edited Video

**Category:** VNR

**Language** English

**Production Date** 06/13/1997

**Length:** 6

**Comments** <plain>The newly-appointed Antonio Rodota gives a short statement on his move from Industry Manager of the Italian firm Alenia Spazio to Director-General of ESA. Cut with clip of le Bourget (Paris Airshow) and satellite construction.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000385

**Title:** ESA: Le Bourget '97 VNR 1 - Francais

**Type:** Edited Video

**Category:** VNR

**Language:** French

**Production Date:** 06/13/1997

**Length:** 6

**Comments:** <plain>The newly-appointed Antonio Rodota gives a short statement on his move from Industry Manager of the Italian firm Alenia Spazio to Director-General of ESA. Cut with clip of le Bourget (Paris Airshow) and satellite construction.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000385

**Title:** ESA: Le Bourget '97 VNR 1 - Italiano

**Type:** Edited Video

**Category:** VNR

**Language:** Italian

**Production Date:** 06/13/1997

**Length:** 6

**Comments:** <plain>The newly-appointed Antonio Rodota gives a short statement on his move from Industry Manager of the Italian firm Alenia Spazio to Director-General of ESA. Cut with clip of le Bourget (Paris Airshow) and satellite construction.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000386

**Title:** Ariane 4: Vol 65 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 01/01/1994

**Length** 16

**Comments** <plain>The Ariane V65 rocket, bearing the PanAmSat 2 and BS-3N payloads, was launched on July 8th 1994. This video covers the campaign, including images of: launcher assembly, integration of solid fuel boosters, delivery of payload, cleanroom footage, delivery (by plane) of ceramic tiled section of launcher, integration, more cleanroom footage Ariane 4 rolled out to launchpad, satellites integrated into payload bay, payload fairing closed, payload bay on back of truck, PanAmSat logo, various pre-launch assembly shots, countdown, ignition and night launch, tracking graph superimposed over control-room applause. </plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000387

**Title:** Ariane 4: Vol 73 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 01/01/1995

**Length** 15

**Comments** <plain>The Ariane V73 rocket, bearing the Intelsat 706 satellite, was launched on May 17th, 1995. This video gives an overview of the campaign, and is arranged as follows: launcher is raised to vertical position; integration of electronics ring; arrival (by plane) of satellite components; cleanroom footage of satellite assembly; payload towed on back of truck; nitrogen tetroxide fuelling; launcher towed to launchpad; cryogenic arms closed; satellite integration; payload fairing closed; payload towed, by night, on back of truck; payload stage hoisted to top of launcher (Intelsat logo visible); centre radar Bretagne 1, montagne des peres, various footage (operators, etc.); assembly building towed away; Arianespace logo visible on rocket with full moon in background; ignition, night launch, various coverage (including infra-red tracking shot.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000388

**Title:** Down to Earth Healthcare - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/06/1997

**Length** 31

**Comments** <plain>A look at how technologies developed for the space industry have led to improvements in healthcare on Earth. The film is divided into four sections as follows: SAVING LIVES: a general look at the concept of technology transfer healthcare; the Promedus organisation; keyhole surgery, miniature eyepiece lenses; training via virtual reality computer systems; the use of stents in surgical procedures, shape memory alloys. HEALTH AND FITNESS: manned spaceflight and the International Space Station; the action of microgravity on human physiology and bone formation, heart failure and osteoporosis; the use of carbon fibre in artificial hips, computer modelling of stress; shape-memory alloys, use in bone fusion; diet and fitness. TELEMEDICINE: the concept of remote operations - telecommunications, information transfer, ultrasound, robotics; secure systems handling confidential medical data. NEW DEVICES: the Promedus organisation; effects of microgravity on the vestibular organ, eye-head coordination; the use of ocular monitoring systems in space and medical training, the Eyecatcher system; ionising radiation, detection in satellites and humans (Radfet sensors); miniature pump, use in drug administration; pressure sensor-suit, applications in monitoring babies at risk from SIDS; monitoring intra-ocular pressure. </plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000388

**Title:** Down to Earth Healthcare - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/06/1997

**Length** 31

**Comments** <plain>A look at how technologies developed for the space industry have led to improvements in healthcare on Earth. The film is divided into four sections as follows: SAVING LIVES: a general look at the concept of technology transfer healthcare; the Promedus organisation; keyhole surgery, miniature eyepiece lenses; training via virtual reality computer systems; the use of stents in surgical procedures, shape memory alloys. HEALTH AND FITNESS: manned spaceflight and the International Space Station; the action of microgravity on human physiology and bone formation, hearing failure and osteoporosis; the use of carbon fibre in artificial hips, computer modelling of stress; shape-memory alloys, use in bone fusion; diet and fitness. TELEMEDICINE: the concept of remote operations - telecommunications, information transfer, ultrasound, robotics; secure systems handling confidential medical data. NEW DEVICES: the Promedus organisation; effects of microgravity on the vestibular organ, eye-head coordination; the use of ocular monitoring systems in space and medical training, the Eyecatcher system; ionising radiation, detection in satellites and humans (Radfet sensors); miniature pump, use in drug administration; pressure sensor-suit, applications in monitoring babies at risk from SIDS; monitoring intra-ocular pressure. </plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000388

**Title:** Down to Earth Healthcare - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/06/1997

**Length** 31

**Comments** <plain>A look at how technologies developed for the space industry have led to improvements in healthcare on Earth. The film is divided into four sections as follows: SAVING LIVES: a general look at the concept of technology transfer healthcare; the Promedus organisation; keyhole surgery, miniature eyepiece lenses; training via virtual reality computer systems; the use of stents in surgical procedures, shape memory alloys. HEALTH AND FITNESS: manned spaceflight and the International Space Station; the action of microgravity on human physiology and bone formation, hearing failure and osteoporosis; the use of carbon fibre in artificial hips, computer modelling of stress; shape-memory alloys, use in bone fusion; diet and fitness. TELEMEDICINE: the concept of remote operations - telecommunications, information transfer, ultrasound, robotics; secure systems handling confidential medical data. NEW DEVICES: the Promedus organisation; effects of microgravity on the vestibular organ, eye-head coordination; the use of ocular monitoring systems in space and medical training, the Eyecatcher system; ionising radiation, detection in satellites and humans (Radfet sensors); miniature pump, use in drug administration; pressure sensor-suit, applications in monitoring babies at risk from SIDS; monitoring intra-ocular pressure. </plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000388

**Title:** Down to Earth Healthcare - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 01/06/1997

**Length** 31

**Comments** <plain>A look at how technologies developed for the space industry have led to improvements in healthcare on Earth. The film is divided into four sections as follows: SAVING LIVES: a general look at the concept of technology transfer healthcare; the Promedus organisation; keyhole surgery, miniature eyepiece lenses; training via virtual reality computer systems; the use of stents in surgical procedures, shape memory alloys. HEALTH AND FITNESS: manned spaceflight and the International Space Station; the action of microgravity on human physiology and bone formation, hearing failure and osteoporosis; the use of carbon fibre in artificial hips, computer modelling of stress; shape-memory alloys, use in bone fusion; diet and fitness. TELEMEDICINE: the concept of remote operations - telecommunications, information transfer, ultrasound, robotics; secure systems handling confidential medical data. NEW DEVICES: the Promedus organisation; effects of microgravity on the vestibular organ, eye-head coordination; the use of ocular monitoring systems in space and medical training, the Eyecatcher system; ionising radiation, detection in satellites and humans (Radfet sensors); miniature pump, use in drug administration; pressure sensor-suit, applications in monitoring babies at risk from SIDS; monitoring intra-ocular pressure. </plain>

**Keywords** TECHNOLOGY TRANSFER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000389

**Title:** Inmarsat-2 F4 Launch

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>The Inmarsat F4 telecommunications satellite was launched by Ariane 4 (Vol.50) on April 15th, 1992. This video gives a summary of the whole campaign, and is arranged as follows: cleanroom footage of satellite construction, Ariane assembly building, helicopter footage of launch area, control room, ignition, lift-off, animation of satellite as solar arrays open, sequence to show "footprints" of satellite beam and various receivers (plane, lorry, laptop etc.), illustration of ground station network, various footage (rescues, telephor communications, lorry driver with cab receiver etc.) to show applications of Inmarsat.</plain>

**Keywords:** TELECOMMUNICATIONS,MARS EXPRESS,LAUNCHERS,

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000393

**Title:** Italsat F2: Launch Campaign

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 32

**Comments:** <plain>The Italian Italsat F2 satellite was launched on August 8th, 1996, and will carry the European Mobile System (EMS) into space. This video contains campaign footage as follows: committee-room, Italsat logo and screen; speakers with Alenia logo in background, including Antonio Rodota; control room footage; various launch footage; IR tracking, graph, satellite deployment (with various split-screen footage of operators and observers). </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000394

**Title:** Ariane 4: Vol 91 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 01/01/1996

**Length:** 17

**Comments:** <plain>The Ariane 4 Vol. 91 launch was made on September 11th, 1996, and carried the Echostar 11 satellite into orbit. This video covers the whole campaign, and is arranged as: delivery of components by MN Toucan vessel; launcher in assembly tower; various cleanroom footage, satellite assembly; launcher assembly; closing of payload bay door; launcher rolled towards pad; closing of cryogenic arms; launcher in assembly tower; payload towed on back of truck; solid fuel boosters lifted by hoist; fuel technicians in protective suits; satellite fixed onto booster platform; Echostar placed into payload bay, doors closed; 'dish network' logo adhered to rocket; payload bay towed on back of truck by night; payload bay hoisted length of rocket; assembly tower moved away from launcher, various footage (split screen, etc.) of night launch; thermal camera trace.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000400

**Title:** Ariane 4: Vol. 93 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The Ariane 4 Vol. 93 launch was made on January 30th 1997, leading to deployment of the GE2 (USA) and Nahuel 1A (Arg.) satellites. This film covers the whole campaign, and is arranged as follows: launcher components are removed from the MN Toucan vessel; launcher main stage is raised to a vertical position; launcher on hoist; stage put together; overall views of assembly tower, showing various levels as rocket is built; launcher is rolled out towards the launchpad; cryogenic arms closed; pre-launch assembly in the rain; payload components in case are taken from various cleanroom footage of satellite assembly; payload bay doors closed; lorry tows payload bay to fuelling building, fuelling technicians wearing protective suits; same process for other payload component - satellite is weighed, assembled, payload bay doors are shut, payload bay is manoeuvred (by crane) over the satellite; payload bay is hoisted vertically to top of launcher; assembly tower is wheeled away from launcher; operations room, countdown and night launch (various footage - slo mo, real time etc.), picturesque SRB separation tracking graph superimposed over operations room, applause. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000401

**Title:** Ariane 5: The Event

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 05/22/1996

**Length:** 15

**Comments:** <plain>Prepared for the Atomes Crochus series, this documentary covers the Ariane 501 campaign. It is in a style particularly suited to children and teenagers.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000402

**Title:** le bourget 1997 Digest - VNR by ESA

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 06/21/1997

**Length:** 12

**Comments:** <plain>A general news release covering le Bourget (Paris Airshow) 1997.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000402

**Title:** le bourget 1997 Digest - VNR by ESA

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 02/22/1997

**Length:** 12

**Comments:** <plain>A general news release covering le Bourget (Paris Airshow) 1997.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000402

**Title:** le bourget 1997 Digest - VNR (VHS DUB VERSION)

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 02/22/1997

**Length:** 12

**Comments:** <plain>A general news release covering le Bourget (Paris Airshow) 1997.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000402

**Title:** le bourget 1997 Digest - VNR by ESA - Deutsch

**Type:** Edited Video

**Category:** VNR

**Language:** German

**Production Date:** 02/22/1997

**Length:** 12

**Comments:** <plain>A general news release covering le Bourget (Paris Airshow) 1997.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000402

**Title:** le bourget 1997 Digest - VNR by ESA - Deutsch

**Type:** Edited Video

**Category:** VNR

**Language:** German

**Production Date:** 02/22/1997

**Length:** 12

**Comments:** <plain>A general news release covering le Bourget (Paris Airshow) 1997.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000403

**Title:** Euromoon 2000

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 03/20/1997

**Length:** 7

**Comments:** <plain>A series of interviews with the general public, cover the topic of Europe's robotic mission to the south pole of the Moon in the year 2000.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000403

**Title:** Euromoon 2000

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 03/20/1997

**Length:** 7

**Comments** <plain>A series of interviews with the general public, covering the topic of Europe's robotic mission to the south pole of the Moon in the year 2000.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000404

**Title:** ERS-1: Low Rate Products

**Type:** Edited Video

**Category:** Documentary, technical

**Language** ME only

**Production Date** 00/00/00

**Length:** 5

**Comments** <plain>ESA's remote sensing satellite ERS-1 was launched by Ariane 4 on July 17th, 1991. This documentary covers the launch and functioning of the satellite, and contains launch footage, animations of the satellite and the Earth, and animations produced from various onboard instrument readings (radar altimeter, wind speed scatterometer).</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000406

**Title:** Ariane 5: Test Firing

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1995

**Length:** 51

**Comments:** <plain>Solid fuel booster towed to testing area, various shots of booster firing (including slo-mo, exhaust escaping from chute); Vulcan engine, ignition and firing (ESA/CNES logos on screen), various shots; exhaust vapour pours from chute; long shot with zoom; Ariane 5 rolled to testing area; charging rocket test firing (ESA/CNES logos on screen); transfer of rocket to testing area, various views (including helicopter views).</plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000408

**Title:** le Bourget - Science

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French and English

**Production Date:** 06/14/1997

**Length:** 17

**Comments:** <plain>A short documentary, prepared for le Bourget (Paris Airshow) 1997, which outlines some of ESA's "machines to explore the Universe". The film covers the joint NASA/ESA Huygens/Cassini mission (animation), the Hubble Space Telescope (live footage and images), the Hipparcos satellite (animation), ISO (animation), SOHO (animation and images), Ulysses (animation), the Cluster 2 mission (animation). The English version is followed by a French version (00:11:00:00).</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000410

**Title:** Matra Marconi Space

**Type:** Video Index

**Category:** live-action recordings

**Language** Mute

**Production Date** 01/01/1997

**Length** 9

**Comments** <plain>Various images of the Matra Marconi company and their involvement in space engineering. Sorted into the following chapters: sites (various buildings bearing logo), telecommunications (cleanroom footage of satellites, ground stations), Earth observation (cleanroom footage, images of Earth from space), science (cleanroom footage and SOHO animations), launchers (Ariane components, control room a launch footage), manned spaceflight (views of shuttle, Mir and Earth), history (various images from 1968 to 1994).</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000413

**Title:** Huygens: Science '97 - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 03/24/1997

**Length** 28

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. This film gives an in-depth analysis of the mission, incorporating animations, cleanroom footage, Voyager images and interviews with various scientists. Footage of the parachute tests for the mission is included, as is a detailed account of the various instrument that will be carried on board. Contributors as follow s: Mike Bird, principal investigator DWE; Marcello Fulchignoni, principal investigator HASI; Hamid Hassan, project manager ESA; Guy Israel, principal investigator ACP; Jean-Pierre Lebreton, project scientist ESA; Jonathan Lunine, interdisciplinary scientist; Ellis Miner, Cassini science manager NASA/JPL; Hasso Niemann, principal investigator GCMS; Tobias Owen, interdisciplinary scientist; Francois Raulin, interdisciplinary scientist; Marty Tomasko, principal investigator DISR; John Zarnecki, principal investigator SSP</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000413

**Title:** Huygens: Science '97 - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 03/24/1997

**Length** 28

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. This film gives an in-depth analysis of the mission, incorporating animations, cleanroom footage, Voyager images and interviews with various scientists. Footage of the parachute tests for the mission is included, as is a detailed account of the various instrument that will be carried on board. Contributors as follow s: Mike Bird, principal investigator DWE; Marcello Fulchignoni, principal investigator HASI; Hamid Hassan, project manager ESA; Guy Israel, principal investigator ACP; Jean-Pierre Lebreton, project scientist ESA; Jonathan Lunine, interdisciplinary scientist; Ellis Miner, Cassini science manager NASA/JPL; Hasso Niemann, principal investigator GCMS; Tobias Owen, interdisciplinary scientist; Francois Raulin, interdisciplinary scientist; Marty Tomasko, principal investigator DISR; John Zarnecki, principal investigator SSP.</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000413

**Title:** Huygens: Science '97 - English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 03/24/1997

**Length** 28

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. This film gives an in-depth analysis of the mission, incorporating animations, cleanroom footage, Voyager images and interviews with various scientists. Footage of the parachute tests for the mission is included, as is a detailed account of the various instrument that will be carried on board. Contributors as follow s: Mike Bird, principal investigator DWE; Marcello Fulchignoni, principal investigator HASI; Hamid Hassan, project manager ESA; Guy Israel, principal investigator ACP; Jean-Pierre Lebreton, project scientist ESA; Jonathan Lunine, interdisciplinary scientist; Ellis Miner, Cassini science manager NASA/JPL; Hasso Niemann, principal investigator GCMS; Tobias Owen, interdisciplinary scientist; Francois Raulin, interdisciplinary scientist; Marty Tomasko, principal investigator DISR; John Zarnecki, principal investigator SSP.  
</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000413

**Title:** Huygens: Science '97 - Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 03/24/1997

**Length** 28

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. This film gives an in-depth analysis of the mission, incorporating animations, cleanroom footage, Voyager images and interviews with various scientists. Footage of the parachute tests for the mission is included, as is a detailed account of the various instrument that will be carried on board. Contributors as follow s: Mike Bird, principal investigator DWE; Marcello Fulchignoni, principal investigator HASI; Hamid Hassan, project manager ESA; Guy Israel, principal investigator ACP; Jean-Pierre Lebreton, project scientist ESA; Jonathan Lunine, interdisciplinary scientist; Ellis Miner, Cassini science manager NASA/JPL; Hasso Niemann, principal investigator GCMS; Tobias Owen, interdisciplinary scientist; Francois Raulin, interdisciplinary scientist; Marty Tomasko, principal investigator DISR; John Zarnecki, principal investigator SSP.</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000417

**Title:** Huygens: Science '97 - B-Roll

**Type:** Video Index

**Category:** Documentary, general public

**Language** English

**Production Date** 03/24/1997

**Length** 28

**Comments** <plain>See edited video for details</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000418

**Title:** Ariane 4: Vol 41

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French

**Production Date:** 01/15/1991

**Length:** 29

**Comments:** <plain>On January 15th 1991, the Ariane V41 launch carried the Italsat1 and Eutelsat 11F2 satellites into space. This video gives an overview of the launch operations, containing footage as follows - various shots of the operations room and pre-launch assembly; split-screen views of the cryogenic arms countdown, cryogenic arms move away; ignition and lift-off tracking graph superimposed over launch room, SRB burnout and separation; animation of satellite deployment, control room as various stage separations occur followed by satellite deployment, applause; animations to show flight of Eutelsat.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000421

**Title:** Jupiter by Isocam

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Mute

**Production Date:** 07/21/1997

**Length:** 3

**Comments:** <plain>ESA's astronomical satellite, the Infrared Space Observatory (ISO), was launched in November 1995. This video index contains graphic sequences to illustrate the mechanism of the ISOCAM apparatus, and images of Jupiter recorded by ISO.</plain>

**Keywords:** SPACE SCIENCE,ISO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000422

**Title:** Mecanex Corporate Video

**Type:** Edited Video

**Category:** miscellaneous

**Language:** French

**Production Date:** 01/01/1997

**Length:** 0

**Comments:** <plain>A corporate video demonstrating the activities of the Mecanex corporation. Contains numerous ESA footage clips.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000426

**Title:** Earthpasses

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 31

**Comments:** <plain>A series of indexed images of the Earth, recorded during various shuttle flights.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000427

**Title:** Shuttle Earthviews 1

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>A series of indexed images of the Earth, recorded during various shuttle flights.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000428

**Title:** Shuttle Earthviews 2

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>A series of indexed images of the Earth, recorded during various shuttle flights.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000429

**Title:** Shuttle Earthviews 3

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>A series of indexed images of the Earth, recorded during various shuttle flights.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000430

**Title:** Shuttle Earthviews 4

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>A series of indexed images of the Earth, recorded during various shuttle flights.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000434

**Title:** Ariane 4: Vol. 95 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>On April 16th 1997, the Ariane 4LP flight Vol. 95 carried the satellites Thiacon 3 and B-Sat 1A into orbit. This video transmission gives an overview of the whole campaign and is organised as follows: lorry unloads components from MN Toucan vessel; launcher main stage is winched to vertical position in assembly building; general views of launcher assembly; integration of pyrotechnic ring; arrival of payload by plane, unloading; removing Intelsat satellite from freight container; cleanroom assembly of satellite; application of foil covering to satellite; satellite on handling dolly, weighing satellite; fuelling satellite engine; delivery, unpacking and fuelling of Thiacon 3, attaching of engine; rollout of Ariane 4 cryogenic arms close around rocket; SRB integration; satellites integrated into payload bay. doors closed around payload; payload bay transported, attachment to launcher; assembly tower rolled away, cryogenic arms open, ignition and various views of night launch. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000437

**Title:** Ariane 4: Vol. 96 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 06/25/1997

**Length:** 15

**Comments:** <plain>Intelsat 802 was launched by Ariane 4 [44P, Vol. 96] on June 25th 1997. This video summarises the whole campaign, containing the following sections: arrival of launcher components by MN Toucan vessel, unloading; main stage raised upright, various footage of main stage assembly; incorporation of the pyrotechnics ring; rollout of Ariane 4, closure of cryogenic arms; booster integration; arrival of Intelsat 802 by plane, unloading and transportation; general cleanroom footage of satellite assembly, application of foil covering, component support using gas-filled balloon; lowering of communications dish; casing applied to satellite section transported and fuelled; weighing satellite, lowered onto exhaust nozzle, integration into payload bay, bay door shut, application of Intelsat logo; night rollout of payload bay winched to top of assembly building; payload bay attached, assembly building rolled away; control room, countdown, various views of night launch [including IR tracking shot during SRB jettison]; tracking graph superimposed over control room footage, applause; speech from Terry Edward satellite mission director.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000439

**Title:** ASSESS

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>[ASSESS - Airborne Science Spacelab Experiments System Simulation.] Produced by NASA's Airborne Science Office, which is located at the Arnes Research Centre in San Francisco, this video outlines the use of experimental flights in the field of space science. Examples of such flights are given - namely, the 1965 990 Galileo 'chase' of a solar eclipse, the 1968 Lear jet-mounted infra-red telescope and the larger C141-mounted telescope flown in 1974. The way which the ASSESS programme documents airborne science for Spacelab planners is explained. Footage is provided from two missions: a joint Russian/NASA airborne microwave radiometry lab, and the ESA/NASA Galileo 2 Spacelab simulator. The latter includes a very young Ulf Merbold.  
</plain>

**Keywords** SPACELAB,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000439

**Title:** ASSESS

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>[ASSESS - Airborne Science Spacelab Experiments System Simulation.] Produced by NASA's Airborne Science Office, which is located at the Arnes Research Centre in San Francisco, this video outlines the use of experimental flights in the field of space science. Examples of such flights are given - namely, the 1965 990 Galileo 'chase' of a solar eclipse, the 1968 Lear jet-mounted infra-red telescope and the larger C141-mounted telescope flown in 1974. The way which the ASSESS programme documents airborne science for Spacelab planners is explained. Footage is provided from two missions: a joint Russian/NASA airborne microwave radiometry lab, and the ESA/NASA Galileo 2 Spacelab simulator. The latter includes a very young Ulf Merbold.  
</plain>

**Keywords** SPACELAB

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000441

**Title:** Spacelab - A New Direction

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 12

**Comments** <plain>The first Spacelab mission was launched in November, 1983. This video starts by underlining the importance of high-altitude research, and the need for a reusable purpose-built vehicle. The initial decision of Europe to participate in the American shuttle missions is covered, along with footage of assembly of the Spacelab module in Bremen, Germany. The various components of Spacelab are described using models, and pre-mission training clips include Ulf Merbold in the Spacelab simulator. The video explains how experiments for the Spacelab mission were chosen by committee, and introduces a crew which includes Merbold and Oeckels. The documentary culminates in the launch of the first Spacelab mission.</plain>

**Keywords** SPACELAB,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000441

**Title:** Spacelab - A New Direction

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 12

**Comments** <plain>The first Spacelab mission was launched in November, 1983. This video starts by underlining the importance of high-altitude research, and the need for a reusable purpose-built vehicle. The initial decision of Europe to participate in the American shuttle missions is covered, along with footage of assembly of the Spacelab module in Bremen, Germany. The various components of Spacelab are described using models, and pre-mission training clips include Ulf Merbold in the Spacelab simulator. The video explains how experiments for the Spacelab mission were chosen by committee, and introduces a crew which includes Merbold and Oeckels. The documentary culminates in the launch of the first Spacelab mission.</plain>

**Keywords** SPACELAB

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000442

**Title:** Aeronautics and Space Highlights

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>A documentary to illustrate the various research field and advances made by NASA. These fall into four categories: space science and applications, space transportation, wind and solar energy, and aeronautics. Coverage includes images of Jupiter and Saturn taken from Voyagers 1 and 2; the Pioneer 11 voyage to Saturn; cleanroom assembly of Heo 3 [High-Energy Astronomy Observatory]; early construction of the Space Telescope, including an animation of the proposed satellite and work on its primary mirror; the first scheduled shuttle launch - test rollout of the shuttle orbiter, water deluge testing [to counteract damaging noise vibrations during lift-off testing of Columbia engines, test firing of the shuttle booster testing of thrusters, rollout of external propellant tank, the Orbiter 102 [Columbia], mounting of silica tiles on the orbiter astronaut training, including microgravity simulation on a parabolic flight; 1973 Skylab, in-flight footage and re-entry manipulation; Landsat satellite remote images; the transfer of rocket engine technology to coastguard fire-fighting water cannons; stratospheric aerosol and gas stratospheric satellite [SAGE]; the launch of rocket-borne experiments to investigate climate; energy-related research, wind turbines and solar arrays; the electric car ETV-1; rotor aircraft technology and aircraft structural design, crash testing.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000442

**Title:** Aeronautics and Space Highlights

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>A documentary to illustrate the various research field and advances made by NASA. These fall into four categories: space science and applications, space transportation, wind and solar energy, and aeronautics. Coverage includes images of Jupiter and Saturn taken from Voyagers 1 and 2; the Pioneer 11 voyage to Saturn; cleanroom assembly of Heo 3[High-Energy Astronomy Observatory]; early construction of the Space Telescope, including an animation of the proposed satellite and work on its primary mirror; the first scheduled shuttle launch - test rollout of the shuttle orbiter, water deluge testing [to counteract damaging noise vibrations during lift-off testing of Columbia engines, test firing of the shuttle booster testing of thrusters, rollout of external propellant tank, the orbiter 102 [Columbia], mounting of silica tiles on the Orbiter; astronaut training, including microgravity simulation on a parabolic flight; 1973 Skylab, in-flight footage and re-entry manipulation; Landsat satellite remote images; the transfer of rocket engine technology to coastguard fire-fighting water cannons; stratospheric aerosol and gas stratospheric satellite [SAGE]; the launch of rocket-borne experiments to investigate climate; energy-related research, wind turbines and solar arrays; the electric car ETV-1; rotor aircraft technology and aircraft structural design, crash testing.</plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000445

**Title:** Meteorology Rocket Experiments

**Type:** Edited Video

**Category:** Documentary, technical

**Language:** English

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>A NASA documentary which explores the different methods of meteorological investigation available at time of filming. The programme focusses on the following concepts: weather balloons and research balloons, combined with telemetry, for meteorological analysis [including spin-testing of a meteorological satellite]; the launch of weather satellites; animation to illustrate atmospheric parameters; thermistors and ground-receiving stations; Arcas rocket used to carry parachute thermistor payload; meteorological analysis using the DOPAP [Doppler's Philosophy and Position] method of grenade explosion; a passive sphere, released by a low-cost rocket and tracked on its descent; the sodium vapour technique, where sodium is ejected at a pre-determined altitude and launched by booster into the lower ionosphere; sodium vapour energised by the Sun's rays, filmed and analysed; other methods - chaff dispersal, active falling spheres, the use of radioactive isotopes; a Pakistani launch of a sounding rocket.</plain>

**Keywords:** WEATHER SATELLITES,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000445

**Title:** Meteorology Rocket Experiments

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 18

**Comments** <plain>A NASA documentary which explores the different methods of meteorological investigation available at time of filming. The programme focusses on the following concepts: weather balloons and research balloons, combined with telemetry, for meteorological analysis [including spin-testing of a meteorological satellite]; the launch of weather satellites; animation to illustrate atmospheric parameters; thermistors and ground-receiving stations; Arcas rocket used to carry parachute thermistor payload; meteorological analysis using the DOPAP [Doppler's Philosophy and Position] method of grenade explosion; a passive sphere, released by a low-cost rocket and tracked on its descent; the sodium vapour technique, where sodium is ejected at a pre-determined altitude and launched by booster into the lower ionosphere; sodium vapour energised by the Sun's rays, filmed and analysed; other methods - chaff dispersal, active falling spheres, the use of radioactive isotopes; a Pakistani launch of a sounding rocket.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL,WEATHER SA

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000449

**Title:** Air Traffic Control Experimental Programme

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1970

**Length** 12

**Comments** <plain>A presentation of the ESRO/CNES Air Traffic Control experimental programme. Footage includes: CNES balloon tracking ground station; description of transponder circuit; aircraft equipped to receive speech and telemetry signals; direction and strength of wind given by balloon, inflation of auxiliary balloon; radar tracking of aircraft, recording of signals aboard aircraft, modulation testing at ground station recovery of cells by parachute; analysis of recordings.</plain>

**Keywords** SATELLITE NAVIGATION,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000449

**Title:** Air Traffic Control Experimental Programme

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1970

**Length** 12

**Comments** <plain>A presentation of the ESRO/CNES Air Traffic Control experimental programme. Footage includes: CNES balloon tracking ground station; description of transponder circuit; aircraft equipped to receive speech and telemetry signals; direction and strength of wind given by balloon, inflation of auxiliary balloon; radar tracking of aircraft, recording of signals aboard aircraft, modulation testing at ground station recovery of cells by parachute; anlysis of recordings.  
</plain>

**Keywords** SATELLITE NAVIGATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000452

**Title:** America in Space: The First Decade

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>A visually diverse documentary which looks at the fi ten years of the Space Age, starting with the 1957 deployment of the Russian Sputnik satellite [no footage of this]. From a stance which anticipates America's first mann mission to the moon, various developments in space exploration are considered - the use of sounding rockets; construction and use of satellites; early scientific satellites, biosatellites; interplanetary probes, remote exploration of th moon; meteorological exploration by satellite; satellite communications using examples such as telemedicine and television; the development of aeronautical technology as a result of space research; the reality of space travel [astron training, early manned launches, footage taken from orbit, docking, splashdown]; building of space facilities centres; space science research, construction of components; accidental explosion of research vehicle; launch failure; Saturn 5 rocket in assembly building; astronaut training; rocket launches and flights.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000452

**Title:** America in Space: The First Decade

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>A visually diverse documentary which looks at the first ten years of the Space Age, starting with the 1957 deployment of the Russian Sputnik satellite [no footage of this]. From a stance which anticipates America's first manned mission to the moon, various developments in space exploration are considered - the use of sounding rockets; construction and use of satellites; early scientific satellites, biosatellites; interplanetary probes, remote exploration of the moon; meteorological exploration by satellite; satellite communications using examples such as telemedicine and television; the development of aeronautical technology as a result of space research; the reality of space travel [astronaut training, early manned launches, footage taken from orbit, docking, splashdown]; building of space facilities centres; space science research, construction of components; accidental explosion of research vehicle; launch failure; Saturn 5 rocket in assembly building; astronaut training; rocket launches and flights.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000455

**Title:** ESRO 1B Documents

**Type:** Edited Video

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length** 19

**Comments** <plain>ESA's 80kg astronomical satellite ESRO 1-B [Aurorae] was launched in October, 1969 by a Scout launcher from Vandenberg; the launcher malfunctioned, resulting in a reduced lifespan of 52 days. This film contains rushes of the delivery, assembly, and weighing of the satellite.</plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000455

**Title:** ESRO 1B Documents

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 19

**Comments:** <plain>ESA's 80kg astronomical satellite ESRO 1-B [Aurorae] was launched in October, 1969 by a Scout launcher from Vandenberg; the launcher malfunctioned, resulting in a reduced lifespan of 52 days. This film contains rushes of the delivery, assembly, and weighing of the satellite.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000457

**Title:** The Weather Watchers

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>Using interviews, graphics, satellite images and live-action footage, this documentary gives an overview of the contemporary science of weather prediction. Since 1960, when the first orbiting weather satellite was launched by NASA, there has been a realisation of the limitations of data gathered by polar orbiting satellites - this resulted in the mid 1960s launch of geosynchronous satellites, and development of improved resolution and IR imaging devices. The film projects into future plans for co-operation with Russia and Japan to provide 5 geosynchronous satellites. A section is also devoted to NASA's ongoing storm research programme, tornado prediction, and the use of light aircraft to analyse conditions at different altitudes.</plain>

**Keywords:** WEATHER SATELLITES,NASA GENERAL,HISTORICAL M

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000457

**Title:** The Weather Watchers

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 12

**Comments** <plain>Using interviews, graphics, satellite images and live-action footage, this documentary gives an overview of the contemporary science of weather prediction. Since 1960, when the first orbiting weather satellite was launched by NASA, there has been a realisation of the limitations of data gathered by polar orbiting satellites - this resulted in the mid 1960s launch of geosynchronous satellites, and development of improved resolution and IR imaging devices. The film projects into future plans for co-operation with Russia and Japan to provide 5 geosynchronous satellites. A section is also devoted to NASA's ongoing storm research programme, tornado prediction, and the use of light aircraft to analyse conditions at different altitudes.</plain>

**Keywords** WEATHER SATELLITES,NASA GENERAL,HISTORICAL M

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000460

**Title:** Critical Path

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 15

**Comments** <plain>Produced in the interests of business efficiency by Richard Costain Ltd., a London-based firm of International Building and Civil Engineering Contractors, this film outlines concepts utilised in the planning, scheduling and control of building projects. Numerous clips of construction footage throughout.</plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000460

**Title:** Critical Path

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 15

**Comments** <plain>Produced in the interests of business efficiency by Richard Costain Ltd., a London-based firm of International Building and Civil Engineering Contractors, this film outlines concepts utilised in the planning, scheduling and control of building projects. Numerous clips of construction footage throughout.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000464

**Title:** And Of Course You

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Dutch

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A light-hearted, highly animated documentary which looks at the various applications of satellite communications.</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000464

**Title:** And Of Course You

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Dutch

**Production Date** 00/00/00

**Length:** 13

**Comments** <plain>A light-hearted, highly animated documentary which looks at the various applications of satellite communications.</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000465

**Title:** Solar Eclipse Campaign In Greece

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 01/01/1966

**Length:** 15

**Comments** <plain>Nine sounding rockets [carrying experiments from Denmark, Germany, Great Britain and Holland] were launched by ESRO between 15 and 20 May, 1966 from a temporary range established by the Organisation near Karystos on the island Euboea in Greece; the site was specifically chosen with reference to the path of the eclipse. This ESRO production gives coverage of the campaign, the object of which was to measure the change: those parts of the solar radiation which can only be measured from above the atmosphere, during the almost total eclipse the Sun, and also to measure associated ionospheric phenomena. Assembly and testing of equipment is included in the footage.</plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000465

**Title:** Solar Eclipse Campaign In Greece

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 00/00/00

**Length** 15

**Comments** <plain>Nine sounding rockets [carrying experiments from Denmark, Germany, Great Britain and Holland] were launched by ESRO between 15 and 20 May, 1966 from a temporary range established by the Organisation near Karystos on the island Euboea in Greece; the site was specifically chosen with reference to the path of the eclipse. This ESRO production gives coverage of the campaign, the object of which was to measure the change: those parts of the solar radiation which can only be measured from above the atmosphere, during the almost total eclipse of the Sun, and also to measure associated ionospheric phenomena. Assembly and testing of equipment is included in the footage.</plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000466

**Title:** Skylab

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>Skylab, America's first manned space laboratory, is planned for launch in 1973. This documentary gives an overview of the mission and its objectives. In addition to general footage of astronaut training and NASA rockets, numerous images related to the biomedical, space science and Earth observation elements of the mission are provided. Visualisation is aided using a mock-up of the Skylab's interior.</plain>

**Keywords** MANNED SPACEFLIGHT,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000466

**Title:** Skylab

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>Skylab, America's first manned space laboratory, is planned for launch in 1973. This documentary gives an overview of the mission and its objectives. In addition to general footage of astronaut training and NASA rockets, numerous images related to the biomedical, space science and Earth observation elements of the mission are provided. Visualisation is aided using a mock-up of the Skylab's interior.</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000467

**Title:** TD1A, Europe's First Astronomical Satellite

**Type:** Edited Video

**Category:** Documentary, technical

**Language** French

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>ESRO's first astronomical satellite, TD-1A, is due to be launched in February 1972. Observing in the ultra-violet wavelength band, it will map the stars. This film contains footage of the pre-flight preparation - construction and testing - of the satellite, and describes how the onboard scientific instruments will work. </plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000467

**Title:** TD1A, Europe's First Astronomical Satellite

**Type:** Edited Video

**Category:** Documentary, technical

**Language** French

**Production Date** 00/00/00

**Length:** 21

**Comments:** <plain>ESRO's first astronomical satellite, TD-1A, is due to be launched in February 1972. Using ultra-violet frequencies it will map the stars. This film contains footage of the pre-flight preparation - construction and testing - of the satellite and describes how the onboard scientific instruments will work. </plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000468

**Title:** A Key To The Earth

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 10

**Comments:** <plain>A film which looks at the contribution of space research to mankind, and the need for Europe's involvement. Useful footage and concepts include: images of the Apollo mission, Sputnik; images of poverty and starvation, and the input of satellite observation; satellite communications; the foundation of ESRO, with images of HQ; early satellite animations; cleanroom footage - solar simulation, shock-testing; ground stations and recording equipment; early machinery - Pascal's arithmetic machine, Gram's electric machine, Marconi's radio.</plain>

**Keywords** HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000468

**Title:** A Key To The Earth

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 10

**Comments** <plain>A film which looks at the contribution of space research to mankind, and the need for Europe's involvement. Useful footage and concepts include: images of the Apollo mission, Sputnik; images of poverty and starvation, and the input of satellite observation; satellite communications; the foundation of ESRO, with images of HQ; early satellite animations; cleanroom footage - solar simulation, shock-testing; ground stations and recording equipment; early machinery - Pascal's arithmetic machine, Gram's electric machine, Marconi's radio.</plain>

**Keywords** ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000470

**Title:** Sailing With The Solar Wind

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1971

**Length** 18

**Comments** <plain>Heos-11 is scheduled for launch in January 1972. Weighing in at 117kg, it will investigate the solar wind and its interaction with the Earth's polar magnetosphere. Instruments have been contributed by Imperial College, London; Rome University; Danish Space Research Institute; ESTEC; Centre d' Etudes Nucleaires, Saclay; Milan University; and Max Planck Institutes in Garching and Heidelberg. This film provides a pre-launch summary of the formulation of Heos-11. Its operation in a polar orbit is compared with that of Heos-1, which operates today in a quasi-equatorial orbit. There is substantial cleanroom footage, including vibration testing of prototypes and test models. The way in which the satellite work is explained by various professors, each of whom describe their own contributions to the satellite.</plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000470

**Title:** Sailing With The Solar Wind

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1971

**Length:** 18

**Comments** <plain>Heos-11 is scheduled for launch in January 1972. Weighing in at 117kg, it will investigate the solar wind and its interaction with the Earth's polar magnetosphere. Instruments have been contributed by Imperial College, London; Rome University; Danish Space Research Institute; ESTEC; Centre d' Etudes Nucleaires, Saclay; Milan University; and Max Planck Institutes in Garching and Heidelberg. This film provides a pre-launch summary of the formulation of Heos-11. Its operation in a polar orbit is compared with that of Heos-1, which operates today in a quasi-equatorial orbit. There is substantial cleanroom footage, including vibration testing of prototypes and test models. The way in which the satellite work is explained by various professors, each of whom describe their own contributions to the satellite.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000472

**Title:** Munich Ariane Vox Pops 3

**Type:** Video Index

**Category:** Interviews

**Language** German

**Production Date** 00/00/00

**Length:** 31

**Comments** <plain>Vox pops on the subject of Ariane outside the Deutsche Museum.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000475

**Title:** Voyager Encounter Highlights

**Type:** Video Index

**Category:** screen output

**Language** M/E only

**Production Date** 00/00/00

**Length** 30

**Comments** <plain>A series of images, incorporating: trajectories; Jupiter from Ganymede computer animation; Jupiter rotation movie; Jupiter zoom movie; Jupiter Red Spot, violet filter; Jupiter Red Spot, blue filter; winds of Jupiter; pans of satellite stills- Jupiter system: Callisto, Ganymede, Europa, Io, Amalthea; Voyager 2 Saturn encounter computer simulation; Saturn approach zoom movie; Saturn rotation; Saturn spoke rings; pans of satellite stills- Saturn system: Titan, Rhea, Dione, Tethys, Encelaudus, Mimas, Hyperion; Uranus encounter simulation; Uranus 8 frame orange movie; Miranda: the movie; pans of satellite stills- Uranus system: Oberon, Titania, Umbriel, Ariel, Miranda; Voyager encounters Neptune.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000478

**Title:** International Space Station Overview

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 11

**Comments** <plain>A general presentation of the International Space Station, including its raison-d'etre and a short history. The documentary includes extensive 3-D graphics and footage from the construction of station elements. The second part a more detailed outline of the space station elements and assembly. </plain>

**Keywords** SPACE STATIONS,NASA GENERAL,INTERNATIONAL SP

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000479

**Title:** Ariane V100 News Index

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 08/09/1997

**Length:** 25

**Comments:** <plain>Compilation of material produced to mark the 100th Ariane launch. begin 00:01:00:00 conditions of use 00:01:15:00 opening title 00:01:54:00 pre-edited showcase sequence from various Ariane launches 00:03:00:00 stock shots: 00:03:04:00 Ministerial Conference 00:03:06:00 Brussels Ministerial Conference, July 1973. This conference endorsed by the Ariane programme 00:03:30:00 Hague Ministerial Conference, November 1987. This conference endorsed by the Ariane 5 development programme 00:04:15:00 Toulouse Ministerial Conference, October 1995. This conference endorsed by the Ariane 5 Evolution Programme. Soundbites by the Mayor of Toulouse (D. Baudis), the French Space Minister (F. Fillon) and the chairman of the Ministerial Conference, the Belgian Science Minister (Y. Ylief) 00:05:23:00 graphics: 00:05:25:00 development of payload capability into geostationary transfer orbit from Ariane 1 through Ariane 5 00:05:40:00 3-D graphics showing the geographic situation of the Guiana Space Centre, Europe's Spaceport in Kourou, relative to Europe. 'Cosmic zoom' to spot satellite image showing main launch site installations 00:06:08:00 3-D graphics of Ariane 5 launch into an elliptic geostationary transfer orbit, followed circularisation of the orbit by satellite 00:06:52:00 Ariane Launch Site construction 00:06:55:00 pre-edited sequence from film recordings of the construction of the Ariane 1 launch infrastructure (1974-78), no sound 00:08:08:00 zo to w s of finished ELA 1 launch pad with water tower 00:08:19:00 tra s from ground to ELA 1 launch pad 00:08:33:00 heli tra s of Ariane 1 integration and launch site nearly finished construction 00:09:46:00 Ariane launches 00:09:52:00 heli s Ariane 1 w aits for first launch, LO1 00:10:27:00 pre-edited sequence of Ariane 1 launch 24/12/79, featuring time-lapse close-up recordings and tra s of launcher's ascent 00:12:13:00 first launch of Ariane 3 in 1984 00:12:37:00 tra s of same launch 00:13:11:00 w s first Ariane 4 launch, in 1988, filmed from i<br>side launch pad gantry 00:13:27:00 heli tra s of same launch 00:13:51:00 same launch, film recordings of booster jetisson and parachute opening, recorded from boosters 00:14:15:00 pre-edited sequence from the videotransmission of the 99th Ariane launch, 3/9/9 putting Hotbird 3 and Meteosat 7 into orbit 00:14:37:00 payload controllers inside Jupiter Range Control Centre 00:15:11:00 launcher controllers inside CDL-2 Launcher Control Centre 00:15:32:00 final countdown and lift-off sequence of Ariane V99 until booste jetisson (one sequence from Ariane V79) 00:17:45:00 observation of the separation of second payload in Jupiter Range Control Centre, followed by applause 00:18:06:00 Guiana Space Centre - Europe's Spaceport 00:18:10:00 helicopter location recordings: tra

s Technical Centre with Jupiter Range Control Centre and Ariane 5 full-scale mock-up, finishing with Payload Preparation Complex 00:19:08:00 wide panoramic shot of rainforest, zi to Montagne-de-Peres tracking and telemetry ground station, five kilometres from the Guiana Space Centre 00:19:45:00 panoramic shot from CDL-3 Launcher Control Centre for Ariane 5 to Ariane 4 assembly building with CDL-2 Launcher Control Centre 00:20:03:00 tra s' of ELA 3 Launch Pad for Ariane 5, zi to top of water tower 00:20:20:00 as above, wider shot 00:20:38:00 Ariane 4 launch pad with gantry closed against ombilical tower 00:20:49:00 panoramic shot from Ariane 5 Final Assembly Building (BAF) to Ariane 5 Launcher Integration Building, then over ELA-2 Ariane 4 Launcher Site to ELA-3 Launch Pad for Ariane 5 00:21:35:00 pre-edited sequence of the launch campaign of Ariane V72 that launched ERS-2 (April 1995) 00:23:29:00 Kourou Ambiance Recordings: sign of river 'le Kourou', fishermen in the old port of Kourou, street scenes in old town, modern buildings at lakeshore 00:25:33:00 helicopter shot of ocean and seaside at sunset, fade to 00:26:08:00 end credits</plain>

**Keywords** LAUNCHERS,HISTORICAL MATERIAL,ESA GENERAL,AR

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000479

**Title:** Ariane V100 News Index

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 08/09/1997

**Length:** 25

**Comments:** <plain>Compilation of material produced to mark the 100th Ariane launch..</plain>

**Keywords** LAUNCHERS,ESA GENERAL,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000480

**Title:** Ariane 502 Index - Francais

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French

**Production Date:** 09/09/1997

**Length:** 25

**Comments:** <plain>A video index produced prior to the launch of Ariane 502, the second qualification flight of Europe's new launcher. Using footage and graphic sequences, the A-roll explains how a computer error led to the failure of Ariane 501's navigation system. The B-roll contains various images relating to the Ariane 5 launches.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000480

**Title:** Ariane 502 Index - English and French

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French and English

**Production Date:** 09/09/1997

**Length:** 25

**Comments:** <plain>A video index produced prior to the launch of Ariane 502, the second qualification flight of Europe's new launcher. Using footage and graphic sequences, the A-roll explains how a computer error led to the failure of Ariane 501's navigation system. The B-roll contains various images relating to the Ariane 5 launches.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000480

**Title:** Ariane 502 Index - English

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 09/09/1997

**Length** 25

**Comments** <plain>A video index produced prior to the launch of Ariane 502, the second qualification flight of Europe's new launcher. Using footage and graphic sequences, the A-roll explains how a computer error led to the failure of Ariane 501's navigation system. The B-roll contains various images relating to the Ariane 5 launches.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000483

**Title:** Skylab: Ultraviolet Stellar Astronomy

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 11

**Comments** <plain>A short film presented by Dr. Karl Henize, scientist astronaut and principal investigator of Skylab experiment S-1. An explanation is given of the science and equipment used in the exploration of stellar spectra.</plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000483

**Title:** Skylab: Ultraviolet Stellar Astronomy

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 11

**Comments** <plain>A short film presented by Dr. Karl Henize, scientist astronaut and principal investigator of Skylab experiment S. An explanation is given of the science and equipment used the exploration of stellar spectra.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000485

**Title:** Research by Rockets

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 00/00/00

**Length:** 29

**Comments** <plain>The first section of this tape contains a compilation of material related to the use of sounding rockets in scientific experiments. The main section is a documentary in the 'Planet Earth' series, which looks at the history of man's various attempts to leave the Earth in the name of scientific research.</plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000485

**Title:** Research by Rockets

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 00/00/00

**Length** 29

**Comments** <plain>The first section of this tape contains a compilation of material related to the use of sounding rockets in scientific experiments. The main section is a documentary in the 'Planet Earth' series, which looks at the history of man's various attempts to leave the Earth in the name of scientific research.</plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000486

**Title:** Campaign Dragon

**Type:** Edited Video

**Category:** live-action recordings

**Language** Mute

**Production Date** 01/01/1968

**Length** 13

**Comments** <plain>A film which catalogues the first launch in the Drago series of sounding rockets, carried out in October 1967 at Andennes in Norway. Includes footage of the test centre location, rocket and instrument construction, rollout, launch and monitoring of the experiment. </plain>

**Keywords** HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000486

**Title:** Campaign Dragon

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1968

**Length:** 13

**Comments:** <plain>A film which catalogues the first launch in the Drago series of sounding rockets, carried out in October 1967 at Andennes in Norway. Includes footage of the test centre location, rocket and instrument construction, rollout, launch and monitoring of the experiment. </plain>

**Keywords:** HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000488

**Title:** Ariane 4: Vol. 99

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French and English

**Production Date:** 00/00/00

**Length:** 83

**Comments:** <plain>A live video transmission from Kourou of the Ariane Vol. 99 launch, which carried the Hotbird 3 and Meteosat 7 satellites into orbit in September 1997. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000490

**Title:** Ariane 502 Index First Edit

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>The first edit of this production.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000492

**Title:** Ariane V100 RE-EDIT

**Type:** Video Index

**Category:** miscellaneous

**Language:** Natural Sound Only

**Production Date:** 09/18/1997

**Length:** 15

**Comments:** <plain>A re-edit of the Ariane V100 video index for presentation use.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000496

**Title:** ESOC Location Recordings Tape 4

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 16

**Comments:** <plain>Camera recordings taken at ESOC - the European Space Operations Centre in Darmsdadt, Germany. Including computer centre, demonstration of Opslan segment concep shots of equipment. </plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000497

**Title:** ISS General Resource Reel

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Mute

**Production Date:** 07/01/1997

**Length:** 28

**Comments:** <plain>A compilation of material - animations and live action footage - which relates to the construction of the American and Russian components of the International Space Station.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000497

**Title:** ISS General Resource Reel

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 07/01/1997

**Length** 28

**Comments** <plain>A compilation of material - animations and live action footage - which relates to the construction of the American and Russian components of the International Space Station.</plain>

**Keywords** SPACE STATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000497

**Title:** ISS General Resource Reel

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 07/01/1997

**Length** 28

**Comments** <plain>A compilation of material - animations and live action footage - which relates to the construction of the American and Russian components of the International Space Station.</plain>

**Keywords** SPACE STATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000500

**Title:** ISS Overview

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 07/06/1997

**Length** 11

**Comments** <plain>A film which gives an overview of the International Space Station [ISS]. Starting with a brief history of manned spaceflight leading to the development of the International Space Station, the potential for research in five areas is highlighted - biotechnology, medicine, fluid physics, agriculture and general industry. The structure of the station is outlined, along with the concept of the partnership of contributing nations. The film shows construction of the various components, and animated descriptions of their function; the assembly of the station is discussed, with footage of shuttle, Proton [animation] and Soyuz launches. The film ends with a look at the control of the ISS, and its monitoring through a ground-based communications network.</plain>

**Keywords** SPACE STATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000500

**Title:** ISS Overview

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 07/06/1997

**Length** 11

**Comments** <plain>A film which gives an overview of the International Space Station [ISS]. Starting with a brief history of manned spaceflight leading to the development of the International Space Station, the potential for research in five areas is highlighted - biotechnology, medicine, fluid physics, agriculture and general industry. The structure of the station is outlined, along with the concept of the partnership of contributing nations. The film shows construction of the various components, and animated descriptions of their function; the assembly of the station is discussed, with footage of shuttle, Proton [animation] and Soyuz launches. The film ends with a look at the control of the ISS, and its monitoring through a ground-based communications network.</plain>

**Keywords** SPACE STATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000502

**Title:** Ariane 502 Aerospatiale Stock-Shots

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 09/01/1997

**Length:** 18

**Comments:** <plain>Stockshots related to the Ariane 502 pre-launch campaign.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000504

**Title:** Disney Parade 235

**Type:** Edited Video

**Category:** miscellaneous

**Language:** French

**Production Date:** 06/01/1997

**Length:** 58

**Comments:** <plain>An edition of the Disney Parade [TF1/Nesquik] childrens' programme, which includes an interview with ES astronaut Jean-Francois Clervoy and NASA astronaut Charles Precourte. Interviews are intercut with footage from shuttle missions.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000505

**Title:** ESRO 4 - A Scientific Research Satellite

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>ESRO's seventh satellite, ESRO-4, was launched on November 22nd, 1972 by a Scout rocket from Canaveral. This 130kg thermosphere science satellite provided readings that led to the conclusion that the polar upper atmosphere temperature is higher than that over the equator. This documentary explains ESRO-4's purpose, and the overall project management by ESTEC. It also includes much cleanroom footage - vibration testing; thermovacuum tests; solar panel manufacture; power supply subsystem development; heat-shield ejection tests; magnetic testing; boom deployment tests; and development of telecommunications, thermal control and attitude control subsystems. There is coverage of satellite integration and testing, prior to the launch itself; animations illustrate the flight, fourth stage separation and deployment. ESOC's acquisition of telemetry data produced by the satellite is shown; further animations are used to demonstrate how the satellite's spin axis changes. Finally, the various experiments are described by their development scientists.</plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000505

**Title:** ESRO 4 - A Scientific Research Satellite

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>ESRO's seventh satellite, ESRO-4, was launched on November 22nd, 1972 by a Scout rocket from Canaveral. This 130kg thermosphere science satellite provided readings that led to the conclusion that the polar upper atmosphere temperature is higher than that over the equator. This documentary explains ESRO-4's purpose, and the overall project management by ESTEC. It also includes much cleanroom footage - vibration testing; thermovacuum tests; solar panel manufacture; power supply subsystem development; heat-shield ejection tests; magnetic testing; boom deployment tests; and development of telecommunications, thermal control and attitude control subsystems. There is coverage of satellite integration and testing, prior to the launch itself; animations illustrate the flight, fourth stage separation and deployment. ESOC's acquisition of telemetry data produced by the satellite is shown; further animations are used to demonstrate how the satellite's spin axis changes. Finally, the various experiments are described by their development scientists.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000506

**Title:** Skylab Space Station 1

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>Skylab was launched on May 14th, 1973. This documentary focusses on the benefits gained from the mission, and from manned spaceflight in general. Topics covered include: interviews with various NASA astronauts Paul Wietz, Gerald Carr, Owen Garriott, William Pogue, Alan Bean, Joseph Kerwin, Edward Gibson, Jack Lousma, Charles Conrad]; the launch of Skylab, and subsequent development of a temporary replacement for the meteorite shield lost 60 seconds into the flight; the repair mission launch on May 25th, 1973; in-flight footage illustrating the damage to Skylab and its repair [including extra-vehicular activity]; various in-flight biomedical, solar science and physics experiments carried out over the three missions; general in-orbit footage of washing, cleaning, eating etc.; views of Earth, including climatic conditions, plankton and rivers; and the final undocking from Skylab, followed by splashdown and disembarking of astronauts.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000506

**Title:** Skylab Space Station 1

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>Skylab was launched on May 14th, 1973. This documentary focusses on the benefits gained from the mission, and from manned spaceflight in general. Topics covered include: interviews with various NASA astronauts Paul Wietz, Gerald Carr, Owen Garriott, William Pogue, Alan Bean, Joseph Kerwin, Edward Gibson, Jack Lousma, Charles Conrad]; the launch of Skylab, and subsequent development of a temporary replacement for the meteorite shield lost 60 seconds into the flight; the repair mission launch on May 25th, 1973; in-flight footage illustrating the damage to Skylab and its repair [including extra-vehicular activity]; various in-flight biomedical, solar science and physics experiments carried out over the three missions; general in-orbit footage of washing, cleaning, eating etc.; views of Earth, including climatic conditions, plankton and rivers; and the final undocking from Skylab, followed by splashdown and disembarking of astronauts.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000508

**Title:** Space In The 70's

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>A general look at NASA's manned spaceflight missions. The documentary starts with the 1969 Apollo 8 mission, which marked the first 10 years of NASA's existence; the Gemini Earth orbiting missions are covered, is the 1969 Apollo 11 moon landing mission. The benefits of manned spaceflight, such as Earth observation capability, navigation and international cooperation are discussed. The is various footage concerned with the Apollo lunar missions including the investigation of moonrocks and general space science experimentation. Made prior to the launch of Skylab this film also looks at the proposed 1972 mission - the structure of Skylab, animations to illustrate the flight, experiments and processes that will be utilised onboard. Other future missions are discussed, including plans for a space station, re-usable shuttle, space tug, space base and manned expeditions to the planets. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000508

**Title:** Space In The 70's

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>A general look at NASA's manned spaceflight missions. The documentary starts with the 1969 Apollo 8 mission, which marked the first 10 years of NASA's existence; the Gemini Earth orbiting missions are covered, is the 1969 Apollo 11 moon landing mission. The benefits of manned spaceflight, such as Earth observation capability, navigation and international cooperation are discussed. The is various footage concerned with the Apollo lunar missions including the investigation of moonrocks and general space science experimentation. Made prior to the launch of Skylab this film also looks at the proposed 1972 mission - the structure of Skylab, animations to illustrate the flight, experiments and processes that will be utilised onboard. Other future missions are discussed, including plans for a space station, re-usable shuttle, space tug, space base and manned expeditions to the planets. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000509

**Title:** Earthspace

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1976

**Length** 15

**Comments** <plain>A film which looks at the interreaction between the Earth's magnetosphere and solar particles, and the possible effects on our climate. Topics covered include: Galileo and Gilbert's historical observations of the Sun, the 1890 solar theory, 1950's speculation that the Sun's magnetism produces the auroras; Goddard's first practical rocket craft the 1920's, the Russian Sputnik launch [newspaper cutting only], launch of the US Explorer craft carrying a Geiger counter, discovery of the Van Allen radiation belt; conceptualisation of the solar wind through subsequent research; the ongoing investigation into the cause of the auroras. There are interviews with various academics throughout, along with much footage of the auroras. SEE ALSO: Earthspace, Long Version.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000509

**Title:** Earthspace

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1976

**Length** 15

**Comments** <plain>A film which looks at the interreaction between the Earth's magnetosphere and solar particles, and the possible effects on our climate. Topics covered include: Galileo and Gilbert's historical observations of the Sun, the 1890 solar theory, 1950's speculation that the Sun's magnetism produces the auroras; Goddard's first practical rocket craft the 1920's, the Russian Sputnik launch [newspaper cutting only], launch of the US Explorer craft carrying a Geiger counter, discovery of the Van Allen radiation belt; conceptualisation of the solar wind through subsequent research; the ongoing investigation into the cause of the auroras. There are interviews with various academics throughout, along with much footage of the auroras. SEE ALSO: Earthspace, Long Version</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000510

**Title:** European ATS-6 Satellite Experiments

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 15

**Comments** <plain>The NASA ATS-6 programme provided an opportunity for assessment of the modulation techniques needed for future mobile communications programmes. It also gave rise to the evolvement of data collection and evaluation techniques. This 1970s documentary gives coverage of the May 1974 Cape Kennedy launch of the satellite, followed by a detailed and technical description of the various aeronautical and maritime communications experiments performed. Footage is provided of NASA's AT: Earthstations, the interfaces between ESA and NASA equipment, and the various experimental craft and centres.  
</plain>

**Keywords** TELECOMMUNICATIONS,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000510

**Title:** European ATS-6 Satellite Experiments

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 15

**Comments** <plain>The NASA ATS-6 programme provided an opportunity for assessment of the modulation techniques needed for future mobile communications programmes. It also gave rise to the evolvement of data collection and evaluation techniques. This 1970s documentary gives coverage of the May 1974 Cape Kennedy launch of the satellite, followed by a detailed and technical description of the various aeronautical and maritime communications experiments performed. Footage is provided of NASA's AT: Earthstations, the interfaces between ESA and NASA equipment, and the various experimental craft and centres.  
</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000511

**Title:** Project Mercury

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>Project Mercury will pave the way for manned spaceflight. This 1960s documentary gives an overview of research and development of the Mercury spacecraft and i Atlas launch vehicle. Topics covered include: graphics of th proposed mission; development and testing of the various components of the rocket; astronaut selection and training [including zero-G parabolic flights, centrifuge training]; various tracking stations and monitoring consoles; free-fall drop testing of the re-entry module; flight testing of the prototype spacecraft - launch, search and recovery; Little solid propellant research and development launch vehicle; Mercury/Atlas test launches; launch photography from Little Joe.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000511

**Title:** Project Mercury

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>Project Mercury will pave the way for manned spaceflight. This 1960s documentary gives an overview of research and development of the Mercury spacecraft and i Atlas launch vehicle. Topics covered include: graphics of th proposed mission; development and testing of the various components of the rocket; astronaut selection and training [including zero-G parabolic flights, centrifuge training]; various tracking stations and monitoring consoles; free-fall drop testing of the re-entry module; flight testing of the prototype spacecraft - launch, search and recovery; Little solid propellant research and development launch vehicle; Mercury/Atlas test launches; launch photography from Little Joe.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000512

**Title:** Who's Out There?

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 27

**Comments:** <plain>Presented by Orson Welles, this 1960s documentar takes a look at the possibility of life elsewhere in the univer. Following on from a discussion of peoples reactions to Welles' 1938 broadcast of H.G. Wells' 'The War Of The Worlds', the film considers the opinions of various speaker: who believe in the possibilty of non-earthly life.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000512

**Title:** Who's Out There?

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 27

**Comments:** <plain>Presented by Orson Welles, this 1960s documentar takes a look at the possibility of life elsewhere in the univer. Following on from a discussion of peoples reactions to Welles' 1938 broadcast of H.G. Wells' 'The War Of The Worlds', the film considers the opinions of various speaker: who believe in the possibilty of non-earthly life.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00000516

**Title:** Estrack Satellite Tracking Station

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 9

**Comments** <plain>Various footage of the REDU satellite tracking station in Belgium - 1960s [?]</plain>

**Keywords** HISTORICAL MATERIAL,GROUND STATIONS,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000516

**Title:** Estrack Satellite Tracking Station

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 9

**Comments** <plain>Various footage of the REDU satellite tracking station in Belgium - 1960s [?]</plain>

**Keywords** GROUND STATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000518

**Title:** Cassini - Huygens Sept. '97 -Francais

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** French

**Production Date** 09/04/1997

**Length:** 26

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. The probe is being developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finds encounters. This index gives an overview of the mission.</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000518

**Title:** Cassini - Huygens Sept. '97

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 09/04/1997

**Length:** 26

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. The probe is being developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finds encounters. This index gives an overview of the mission.</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000518

**Title:** Cassini - Huygens Sept. '97 -English

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 09/04/1997

**Length** 26

**Comments** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens towards Saturn's intriguing moon Titan. The probe is being developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finds during encounters. This index gives an overview of the mission.</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000519

**Title:** The Four Days of Gemini 4

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>[Original film stock badly scratched up to TC 01:02:26:00]. A documentary covering NASA's pioneering Gemini 4 mission, during which two men lived and worked in orbit for four days. The film includes: a detailed description of the EVA [Extra-Vehicular Activity] suit designed for the mission; crew entering launch vehicle; control room and launch; flight control and EVA footage; in-flight experiments; medical measurement, photography [including many earthviews]; rolling re-entry from onboard camera; launch and search and recovery aircraft, recovery of Gemini 4, post-flight physical examinations. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000519

**Title:** The Four Days of Gemini 4

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>[Original film stock badly scratched up to TC 01:02:26:00]. A documentary covering NASA's pioneering Gemini 4 mission, during which two men lived and worked in orbit for four days. The film includes: a detailed description of the EVA [Extra-Vehicular Activity] suit designed for the mission; crew entering launch vehicle; control room and launch; flight control and EVA footage; in-flight experiments; medical measurement, photography [including many earthviews]; rolling re-entry from onboard camera; launch and search and recovery aircraft, recovery of Gemini 4, post-flight physical examinations. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000520

**Title:** Skylab - Earth and Sun Observations

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 23

**Comments** <plain>For several months during 1973, astronauts will live and work aboard the Skylab module. Incorporating much footage from previous missions, this documentary looks at the planning and design of the Earth resources and solar observation experiments scheduled for Skylab. </plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000520

**Title:** Skylab - Earth and Sun Observations

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 23

**Comments** <plain>For several months during 1973, astronauts will live and work aboard the Skylab module. Incorporating much footage from previous missions, this documentary looks at the planning and design of the Earth resources and solar observation experiments scheduled for Skylab. </plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000521

**Title:** Nuclear Propulsion In Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 01/01/1968

**Length** 23

**Comments** <plain>The proposed mission to explore the moon, in addition to further missions, will require the acceleration and deceleration of very heavy loads. This documentary explores the use of nuclear propulsion to complement the chemical fuels used in today's rockets. Includes: a Saturn 5 rocket on its launchpad, launch and flight [including stage separation and air-ground shots]; the concept of substituting a nuclear 3rd stage to increase payload velocity; 1950s research in Mexico to determine the feasibility of nuclear energy in rocket propulsion; development of engine technology via the NERV [Nuclear Engine For Rocket Vehicle Applications] project, engine testing; a description of how this technology may be used for a theoretical mission to Mars. </plain>

**Keywords** NASA GENERAL,LAUNCHERS,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000521

**Title:** Nuclear Propulsion In Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 01/01/1968

**Length** 23

**Comments** <plain>The proposed mission to explore the moon, in addition to further missions, will require the acceleration and deceleration of very heavy loads. This documentary explores the use of nuclear propulsion to complement the chemical fuels used in today's rockets. Includes: a Saturn 5 rocket on its launchpad, launch and flight [including stage separation and air-ground shots]; the concept of substituting a nuclear 3rd stage to increase payload velocity; 1950s research in Mexico to determine the feasibility of nuclear energy in rocket propulsion; development of engine technology via the NER\ [Nuclear Engine For Rocket Vehicle Applications] project, engine testing; a description of how this technology may be used for a theoretical mission to Mars. </plain>

**Keywords** NASA GENERAL,LAUNCHERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000523

**Title:** Above and Beyond

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 10/03/1997

**Length** 5

**Comments** <plain>An largely animated, subtitled summary of the International Space Station project. The film is divided into the following sections - The European Contribution (animation): the Columbus Orbital Facility [COF], the Automated Transfer Vehicle [ATV], the European Robotic Arm [ERA] and Options: Crew Transport Vehicles [CTV]; Living And Working In Space: general in-flight footage of the Euromir mission, including ESA's Ulf Merbold rotating in microgravity, biomedical research, exercising, Extra-Vehicular Activity [EVA] training, EVA, the Space Shuttle; An International Effort? (animation) The various elements of the station and their contributors.</plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000523

**Title:** Above and Beyond

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 10/03/1997

**Length:** 5

**Comments:** <plain>An largely animated, subtitled summary of the International Space Station project. The film is divided into the following sections - The European Contribution (animation): the Columbus Orbital Facility [COF], the Automated Transfer Vehicle [ATV], the European Robotic Arm [ERA] and Options: Crew Transport Vehicles [CTV]; Living And Working In Space: general in-flight footage of the Euromir mission, including ESA's Ulf Merbold rotating in microgravity, biomedical research, exercising, Extra-Vehicular Activity [EVA] training, EVA, the Space Shuttle; An International Effort? (animation) The various elements of the station and their contributors.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000525

**Title:** Construction Kiruna

**Type:** Edited Video

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 30

**Comments:** <plain>Rushes of the construction of the Kiruna tracking station in North Sweden, ESRO's first sounding rocket launch site. Includes helicopter rushes of the area. </plain>

**Keywords:** HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000525

**Title:** Construction Kiruna

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>Rushes of the construction of the Kiruna tracking station in North Sweden, ESRO's first sounding rocket launch site. Includes helicopter rushes of the area. </plain>

**Keywords:** HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000526

**Title:** Apollo 12: Pinpoint For Science

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 28

**Comments:** <plain>Apollo 12, the second manned mission to the moon, was launched on November 14th, 1969. This documentary starts with a series of images from Surveyor 3 [which land on the moon on April 19th, 1967] then gives highlights of the Apollo 12 mission as follows: launch footage [including lightning strike to rocket], in-flight footage, control room tracking of rocket, in-orbit shots of moon, moon approaching after LOI [Lunar Orbit Injection], astronauts enter lunar module, Intrepid module lands, astronauts walk on moon's surface, erection of Aslep seismology station, Intrepid rises towards Yankee Clipper orbiter, recovery of astronauts after splashdown, footage of moonrocks.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00000527

**Title:** Apollo 14: Mission To Fra Mauro

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 29

**Comments** <plain>This documentary starts with clips of the Freedom 7 mission, launched on May 5th 1961, during which Alan Shepard became America's first man in space. Ten years later, Sheppard commands the Apollo 14 mission to the Fra Mauro region of the moon, launched by a Saturn 5 rocket on January 31st 1971. The film contains highlights of the mission, including: launch and control room; in-flight footage of lunar probe docking with Kittihawk orbiter, successful on the 6th attempt; in-flight picture of the moon from the orbiter; Earth testing of the lunar module, and general shots of the monitoring of the mission; the lunar module descends, while 'abort' signal is registered on Earth; footage from module of landing [after computer is re-programmed to ignore the signal]; astronauts disembark onto surface of the Moon, American flag is pitched; erection of automated scientific laboratory; stills of astronauts exploring moon's surface; view from interior as module lifts off; in-flight footage of crew, zero-gravity experiments; approach of Earth, splashdown, astronauts winched into helicopter, emerge wearing oxygen masks; demonstration of lunar rover, examination of moonrocks. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000528

**Title:** Telstar

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>A film which deals with NASA's launch of the pioneering Telstar telecommunications satellite. The documentary starts with the night of July 9th 1962, when the final pre-launch tests are being made on the Telstar satellite equipment. Footage as follows: final tests on the electronic equipment in Andover; antennae at Andover, Brittany, France and Cornwall, England; guidance control centre; Telstar receives protective sheathing; the Bell telephone laboratory in New Jersey; Dr. John Pearce lectures on his ideas; microwave towers, the concept of satellite telecommunications; telecommunications scientific research the Andover antenna, and its forerunner the New Jersey antenna; Bell laboratories construction, testing and delivery the first Telstar satellite; transfer of booster to launch area, rocket installed to launchpad; mating of Telstar to third stage booster; satellite 'canned' for transport, hoisted to top of launch tower, mated to second stage; gantry pulls back, rocket on launchpad; control centres, ignition and launch, tracking to orbit; various tracking equipment locates Telstar; the public watches as the American flag is broadcast via Telstar, various satellite broadcast footage.</plain>

**Keywords:** TELECOMMUNICATIONS,NASA GENERAL,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000528

**Title:** Telstar

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>A film which deals with NASA's launch of the pioneering Telstar telecommunications satellite. The documentary starts with the night of July 9th 1962, when the final pre-launch tests are being made on the Telstar satellite equipment. Footage as follows: final tests on the electronic equipment in Andover; antennae at Andover, Brittany, France and Cornwall, England; guidance control centre; Telstar receives protective sheathing; the Bell telephone laboratory in New Jersey; Dr. John Pearce lectures on his ideas; microwave towers, the concept of satellite telecommunications; telecommunications scientific research the Andover antenna, and its forerunner the New Jersey antenna; Bell laboratories construction, testing and delivery the first Telstar satellite; transfer of booster to launch area, rocket installed to launchpad; mating of Telstar to third stage booster; satellite 'canned' for transport, hoisted to top of launch tower, mated to second stage; gantry pulls back, rocket on launchpad; control centres, ignition and launch, tracking to orbit; various tracking equipment locates Telstar; the public watches as the American flag is broadcast via Telstar, various satellite broadcast footage.</plain>

**Keywords:** TELECOMMUNICATIONS,NASA GENERAL,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000529

**Title:** Noordwijk Space Exhibition '97

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 5

**Comments:** <plain>A music clip covering the Noordwijk Space Exhibition 1997. Includes: helicopter views of ESTEC building, various displays included in the exhibition, and some of the historical photos and footage used.</plain>

**Keywords:** ESTEC,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000530

**Title:** Architecture Serves European Space Effort

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1989

**Length:** 9

**Comments** <plain>A look at the architecture behind the ESTEC building: at Noordwick, in the Netherlands. Containing: numerous footage of the structure, including helicopter shots; interview with architect Aldo van Eyck, who designed the building; interview with Marius le Fevre, director of ESTEC; contemporaray construction footage; an animated look at th International Space Station [ISS] and Europe's contribution; audience watches images of Ariane launch at Kourou; graphics of Ariane 5 with Hermes payload.</plain>

**Keywords** ESTEC,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000531

**Title:** L' Oeil Ecoute

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 11

**Comments** <plain>A 1970s film containing some useful historical footage: satellite research and construction, tracking station sounding rocket construction, ESTEC simulation testing of satellites, launch of sounding rockets, tracking station at REDU in Belgium, receiving satellite data, research at ESRIN in Italy [including laser research], opening of solar arrays.</plain>

**Keywords** HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000531

**Title:** L' Oeil Ecoute

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length** 11

**Comments** <plain>A 1970s film containing some useful historical footage: satellite research and construction, tracking station sounding rocket construction, ESTEC simulation testing of satellites, launch of sounding rockets, tracking station at REDU in Belgium, receiving satellite data, research at ESRIN in Italy [including laser research], opening of solar arrays.</plain>

**Keywords** HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000533

**Title:** Apollo 17: On The Shoulders Of Giants

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 27

**Comments** <plain>The last manned American mission to the Moon was launched on December 6th, 1972. This film provides concise coverage, containing footage as follows: astronauts enter launch assembly; statement by Dr. Rocco Petrone, director of the Apollo programme; control centre, launch; docking with Challenger docking module; statement on Skylab from Dr. Christopher C. Kraft, director of the Manned Spaceflight Centre; descent of lunar module, view of Moon's surface from module; Challenger module lands; EVA [Extra-Vehicular Activity] on surface of Moon, views of the lunar Rover; erection of the American flag, assembly of the Alsep scientific equipment; statement on the functioning of the Alsep equipment by Dr. David Strangway of the Manned Spacecraft Centre; exploration of the orange soil in Shorty Crater; general footage of astronauts on the Moon's surface; still, and in-flight footage, of the orbiter; various scientists comment on the functioning of the scientific equipment; lift-off of the Challenger lunar module, in-flight footage of crew in orbiter; Ron Evans performs EVA from command module to retrieve film canisters; view of plasma through window on re-entry; splashdown, various mission stills. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000534

**Title:** Ariane 4: Vol. 99 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 01/10/1997

**Length:** 19

**Comments:** <plain>The Ariane 4 Vol. 99 launch, on September 2nd 1997, carried the Hotbird-3 and Meteosat-7 satellites into orbit. The tape contains highlights of the campaign, including: Meteosat-7 and Hotbird-3 construction, delivery of launcher main stage transportation to launcher integration building; integration of liquid boosters, second and third stages and vehicle equipment bay; rollout of launcher, closure of cryogenic area; launcher in final assembly building; integration of solid boosters; arrival by plane of Meteosat satellite, cleanroom assembly; satellite put into casing, driven to fuelling area; arrival by plane of Hotbird satellite, cleanroom assembly, put into casing and fuelled, integrated into payload casing; adhering Eutelsat and Meteosat stickers; rollout of payload bay, integration onto rocket in final assembly building; final countdown, launch; various flight and stage separation footage; control room announcement of satellite deployment; applause.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000535

**Title:** The Road to Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 10

**Comments** <plain>A 1960s American corporate film demonstrating the development of launch systems by Douglas, a corporation playing a major role in launch system development and flight with cryogenic propellants. Including: various launch footage to illustrate the Delta and Saturn terminal stage programmes both developed by Douglas; systems management; the development of special facilities - a liquid nitrogen cooled space vacuum chamber, heavy duty structures test facility; liquid hydrogen research and testing complex, a 4000 acre liquid hydrogen test firing complex, attitude control systems testing complex, post-firing vehicle checkout facility; liquid hydrogen and liquid oxygen propellant development plant; S stage bulkhead; satellite development; aerodynamics testing of Delta vehicle in hyper-velocity impulse tunnel; launcher fabrication; ground-testing of engines; laboratory for testing integrated system, data analysis; launch of Saturn-1 vehicle; seated operators with Saturn/Douglas logos on coats. </plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000535

**Title:** The Road to Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 10

**Comments** <plain>A 1960s American corporate film demonstrating the development of launch systems by Douglas, a corporation playing a major role in launch system development and flight with cryogenic propellants. Including: various launch footage to illustrate the Delta and Saturn terminal stage programmes both developed by Douglas; systems management; the development of special facilities - a liquid nitrogen cooled space vacuum chamber, heavy duty structures test facility; liquid hydrogen research and testing complex, a 4000 acre liquid hydrogen test firing complex, attitude control systems testing complex, post-firing vehicle checkout facility; liquid hydrogen and liquid oxygen propellant development plant; S stage bulkhead; satellite development; aerodynamics testing of Delta vehicle in hyper-velocity impulse tunnel; launcher fabrication; ground-testing of engines; laboratory for testing integrated system, data analysis; launch of Saturn-1 vehicle; seated operators with Saturn/Douglas logos on coats. </plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000537

**Title:** Establishing A Rocket Research Range

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 16

**Comments** <plain>A 1960s documentary on the intensive use of sounding rockets by U.S. scientists. Containing footage of many sounding rocket launches, a diagrammatic explanation of how sounding rockets fill the gap between balloons and satellites, an explanation of the conditions required for a testing site, recovery of experiments, various areas within testing site, testing of rocket timers, telemetry and tracking equipment, a sounding rocket launchpad, control centre, closed-circuit observation equipment, recording of radar da an example of how the facilities are used to launch a grena experiment, starting with T-2 days [rocket moved from stor: area to launcher, grenades loaded into nosecone, mating w second stage, meteorological balloon, final equipment check on the sound ranging recorders, rocket controls are switch to internal power, launch, recordings of sound waves].</pk

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000537

**Title:** Establishing A Rocket Research Range

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 16

**Comments** <plain>A 1960s documentary on the intensive use of sounding rockets by U.S. scientists. Containing footage of many sounding rocket launches, a diagrammatic explanation of how sounding rockets fill the gap between balloons and satellites, an explanation of the conditions required for a testing site, recovery of experiments, various areas within testing site, testing of rocket timers, telemetry and tracking equipment, a sounding rocket launchpad, control centre, closed-circuit observation equipment, recording of radar da an example of how the facilities are used to launch a grena experiment, starting with T-2 days [rocket moved from stor area to launcher, grenades loaded into nosecone, mating w second stage, meteorological balloon, final equipment check on the sound ranging recorders, rocket controls are switch to internal power, launch, recordings of sound waves].</pl

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000539

**Title:** Skylab: Wings Of Discovery

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 11

**Comments** <plain>A brief look at the success of the Skylab mission, th video [image quality reduced by black projector lines on original film stock] contains the following footage: various manned spaceflight and EVA [Extra-Vehicular Activity] coverage; solar observation, with results of coronal viewin Earth observation - drought areas, offshore Cape Cod area tree mapping, inaccessible areas of South America, sand a gravel location; materials processing furnace; analysis of crystals grown in space; biomedical experiments; picturesque footage of astronaut rotating in microgravity.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000539

**Title:** Skylab: Wings Of Discovery

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 11

**Comments:** <plain>A brief look at the success of the Skylab mission, th video [image quality reduced by black projector lines on original film stock] contains the following footage: various manned spaceflight and EVA [Extra-Vehicular Activity] coverage; solar observation, with results of coronal viewin Earth observation - drought areas, offshore Cape Cod area tree mapping, inaccessible areas of South America, sand a gravel location; materials processing furnace; analysis of crystals growm in space; biomedical experiments; picturesque footage of astronaut rotating in microgravity. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000540

**Title:** Huygens/ Cassini Launch Highlights

**Type:** Edited Video

**Category:** live-action recordings

**Language** French and English

**Production Date** 10/15/1997

**Length:** 50

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Del rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. The probe has been developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finally encounters. </plain>

**Keywords** HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000542

**Title:** The Age Of Space Transportation

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 20

**Comments** <plain>A 1970s documentary which takes a philosophical look at man's advances in the field of space transportation. Although rather broad, using various footage to illustrate sociological concepts and general everyday life in the USA, useful material includes: the Kennedy spaceport in Florida, picturesque slow-motion launch footage; in-flight footage of Saturn rocket stage separation; precision manufacture of space components; various in-flight footage of the Apollo missions; behaviour of fluids, crystal formation and biologic systems in microgravity; a look at ESA's Spacelab; operatin theatre footage with team working in isolation suits, monitoring of premature babies; an illustrated look at NASA space shuttle and its payload capabilities; transport footage steam train, horse-drawn coach, cyclists, tram, cars, stills early flying machines and of Goddard's early rocket construction; various views of the Earth from space; hurricanes from space, forest fires, treating crops, locating fuels; views of space and the concept of a future space telescope; test pilot flies shuttle simulator craft. </plain>

**Keywords** SPACELAB,NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000542

**Title:** The Age Of Space Transportation

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 20

**Comments** <plain>A 1970s documentary which takes a philosophical look at man's advances in the field of space transportation. Although rather broad, using various footage to illustrate sociological concepts and general everyday life in the USA, useful material includes: the Kennedy spaceport in Florida, picturesque slow-motion launch footage; in-flight footage of Saturn rocket stage separation; precision manufacture of space components; various in-flight footage of the Apollo missions; behaviour of fluids, crystal formation and biologic systems in microgravity; a look at ESA's Spacelab; operatin theatre footage with team working in isolation suits, monitoring of premature babies; an illustrated look at NASA space shuttle and its payload capabilities; transport footage steam train, horse-drawn coach, cyclists, tram, cars, stills early flying machines and of Goddard's early rocket construction; various views of the Earth from space; hurricanes from space, forest fires, treating crops, locating fuels; views of space and the concept of a future space telescope; test pilot flies shuttle simulator craft. </plain>

**Keywords** SPACELAB,NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000544

**Title:** Darmstadt: A Library On Tap

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A 1960/1970s documentary describing the automatic documentation service offered by the European space organisations. Utilising a powerful computer reference system, Europe's first information retrieval network is based in Darmstadt, Germany. This film provides a diagram of how the European network connects, footage of contemporary computers with operators [the ESRO computer centre], an explanation of how a search is conducted using keywords people working with keyboards, women working with small components under microscopes, printing data, conducting a microfiche search, various equipment relating to the European reference communications network.</plain>

**Keywords** ESRO,ELDO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000544

**Title:** Darmstadt: A Library On Tap

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A 1960/1970s documentary describing the automatic documentation service offered by the European space organisations. Utilising a powerful computer reference system, Europe's first information retrieval network is based in Darmstadt, Germany. This film provides a diagram of how the European network connects, footage of contemporary computers with operators [the ESRO computer centre], an explanation of how a search is conducted using keywords people working with keyboards, women working with small components under microscopes, printing data, conducting a microfiche search, various equipment relating to the European reference communications network.</plain>

**Keywords** ESRO,ELDO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000545

**Title:** Magnetic Effects In Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>A short educational film which starts with a brief section of footage from the Skylab mission, launched in the summer of 1973 - pre-launch astronauts, brief launch footage, and examples of on-board experiments focussing Owen Garriot's in-orbit science demonstrations. The rest of the film covers a lecture by Garriot to a class of high-school students, interspersed with film clips - astronauts float inside the Skylab module, diagram of the Earth's magnetic field, Garriot's on-board demonstration with free-floating magnets; measurement of the oscillation periods of a magnet, the effect of a magnet on a free-floating nut. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000545

**Title:** Magnetic Effects In Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>A short educational film which starts with a brief section of footage from the Skylab mission, launched in the summer of 1973 - pre-launch astronauts, brief launch footage, and examples of on-board experiments focussing Owen Garriot's in-orbit science demonstrations. The rest of the film covers a lecture by Garriot to a class of high-school students, interspersed with film clips - astronauts float inside the Skylab module, diagram of the Earth's magnetic field, Garriot's on-board demonstration with free-floating magnets; measurement of the oscillation periods of a magnet, the effect of a magnet on a free-floating nut. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000546

**Title:** Ionosphere Rocket Experiments

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>A film demonstrating the activities at NASA's ground based ionospheric stations, where scientists take vertical incidence soundings of the ionosphere. Commencing with footage of the NASA Wallops rocket research range, the film demonstrates: analysing ionograms, which show frequency relationships and therefore general parameters of the ionosphere; sounding rocket launches; ground stations marked on a globe; the UK-1 aerial NASA/UK ionospheric satellite; an electron density profile graph; continuous wave [CW] propagation techniques - CW signal generator, oscillator in proportional oven; diagram to illustrate how the refractive index at the rocket can be derived; setting-up of experimental radiations for the pre-launch checkout; low-frequency antenna, high-frequency antenna, receiving equipment; CW-derived international prototype payload - checking of instrumentation, Langmuir probe with typical electron density profile graph, payload encapsulation, second stage with shroud antennae; ground station monitoring of ionospheric conditions; launch of sounding rocket, readings printout, analysis; various sounding rocket experiments - assembly of direct measurement probe and Faraday rotation experiment, resonance experiment. </plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000546

**Title:** Ionosphere Rocket Experiments

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>A film demonstrating the activities at NASA's ground based ionospheric stations, where scientists take vertical incidence soundings of the ionosphere. Commencing with footage of the NASA Wallops rocket research range, the film demonstrates: analysing ionograms, which show frequency relationships and therefore general parameters of the ionosphere; sounding rocket launches; ground stations marked on a globe; the UK-1 aerial NASA/UK ionospheric satellite; an electron density profile graph; continuous wave [CW] propagation techniques - CW signal generator, oscillator in proportional oven; diagram to illustrate how the refractive index at the rocket can be derived; setting-up of experimental radiations for the pre-launch checkout; low-frequency antenna, high-frequency antenna, receiving equipment; CW-derived international prototype payload - checking of instrumentation, Langmuir probe with typical electron density profile graph, payload encapsulation, second stage with shroud antennae; ground station monitoring of ionospheric conditions; launch of sounding rocket, readings printout, analysis; various sounding rocket experiments - assembly of direct measurement probe and Faraday rotation experiment, resonance experiment. </plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000547

**Title:** Earthspace - Long Version

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 46

**Comments** <plain>An augmented version of the film 'Earthspace', a film which looks at the interreaction between the Earth's magnetosphere and solar particles, and the possible effect on our climate. Topics covered include: tundra footage; ground based telescopes and images of the Sun; recording solar radio noise, magnetic storms; various historical observations of the Sun, including Galileo and Gilbert's historical observations of the Sun, discovery of a solar flare 1859, Berkland and Stormer's observations in Norway, the 1890 solar theory, 1950's speculation that the Sun's magnetism produces the auroras; Goddard's first practical rocket craft in the 1920's, research with German V2 rocket Eisenhower's 1957 speech of both America and Russia's intentions to put satellites into space for the geophysical year the Russian Sputnik launch footage [including control room and Russian animations]; 1958 launch of the US Explorer craft carrying a Geiger counter, numerous related stills, discovery of the Van Allen radiation belt; conceptualisation of the solar wind through subsequent research; various space engineering footage [satellite construction, launches]; satellite images of solar flares; ground stations; 1960s data recording data archive; images of arctic snowstorms with magnetosphere analysis ground stations [interior and exterior views, much footage of scientists with analysis equipment] prototype space auroral recording equipment; rocket launch and release of barium; receiving antennae in Canada; footage of lunar missions, including space buggy; laboratory simulation of magnetic Earth and solar wind; receiving data on solar activity, analysts on telephones; speeded-up images of clouds; images of the Earth from space. There are interviews with various academics throughout, along with much footage of the auroras.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000547

**Title:** Earthspace - Long Version

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 46

**Comments** <plain>An augmented version of the film 'Earthspace', a film which looks at the interreaction between the Earth's magnetosphere and solar particles, and the possible effect on our climate. Topics covered include: tundra footage; ground based telescopes and images of the Sun; recording solar radio noise, magnetic storms; various historical observations of the Sun, including Galileo and Gilbert's historical observations of the Sun, discovery of a solar flare 1859, Berkland and Stormer's observations in Norway, the 1890 solar theory, 1950's speculation that the Sun's magnetism produces the auroras; Goddard's first practical rocket craft in the 1920's, research with German V2 rocket Eisenhower's 1957 speech of both America and Russia's intentions to put satellites into space for the geophysical year the Russian Sputnik launch footage [including control room and Russian animations]; 1958 launch of the US Explorer craft carrying a Geiger counter, numerous related stills, discovery of the Van Allen radiation belt; conceptualisation of the solar wind through subsequent research; various space engineering footage [satellite construction, launches]; satellite images of solar flares; ground stations; 1960s data recording data archive; images of arctic snowstorms with magnetosphere analysis ground stations [interior and exterior views, much footage of scientists with analysis equipment] prototype space auroral recording equipment; rocket launch and release of barium; receiving antennae in Canada; footage of lunar missions, including space buggy; laboratory simulation of magnetic Earth and solar wind; receiving data on solar activity, analysts on telephones; speeded-up images of clouds; images of the Earth from space. There are interviews with various academics throughout, along with much footage of the auroras.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000548

**Title:** Apollo Lunar Rendezvous Technique

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 5

**Comments** <plain>An animated description of the various stages of the future Apollo lunar mission. Two identical versions exist on the cassette.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000548

**Title:** Apollo Lunar Rendezvous Technique

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 5

**Comments** <plain>An animated description of the various stages of the future Apollo lunar mission. Two identical versions exist on the cassette.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000550

**Title:** Exploration Of The Planets

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 24

**Comments** <plain>Starting with Nixon's announcement in 1970 of the objectives of a space programme that would include the scientific investigation of all the planets in the solar system [footage of Nixon shaking hands with delegates], this documentary outlines the proposed missions. Each planet is dealt with in turn, as follows: image of the Earth from space; Mercury, illustration of proposed landscape; Venus, illustration of proposed landscape; Mars, illustration of surface; satellite image of Jupiter; satellite image of Saturn, rendering of Saturn from Titan; illustrations of Uranus, Neptune and Pluto; 1960s Mariner images of Mars; model of Mariner 9 orbiter and Viking lander, animations of Mariner flight path, planning of 1975 Viking lander mission [scientist work with computers and photographs], graphics of Viking lander; 1973 Mariner 10 mission to Venus and Mercury flight path animation, graphics of onboard television cameras, 1973 radar map of Venus, Mercury's orbit around the Sun; illustrations of Pioneer vehicles, due to be launched in 1972 and 1973 to study Jupiter, illustration of asteroid belt, Pioneer asteroid detection equipment, helicopter view of large satellite receiving dish, rendering satellite orbits Jupiter, animation Pioneer escapes solar system; illustrations Saturn and its rings, Uranus, Neptune and Triton, Jupiter and its moons; animation flight paths using Jupiter's gravity; animation radio antenna of 'grand tour' spacecraft. </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000550

**Title:** Exploration Of The Planets

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 24

**Comments** <plain>Starting with Nixon's announcement in 1970 of the objectives of a space programme that would include the scientific investigation of all the planets in the solar system [footage of Nixon shaking hands with delegates], this documentary outlines the proposed missions. Each planet is dealt with in turn, as follows: image of the Earth from space; Mercury, illustration of proposed landscape; Venus, illustration of proposed landscape; Mars, illustration of surface; satellite image of Jupiter; satellite image of Saturn, rendering of Saturn from Titan; illustrations of Uranus, Neptune and Pluto; 1960s Mariner images of Mars; model of Mariner 9 orbiter and Viking lander, animations of Mariner flight path, planning of 1975 Viking lander mission [scientist work with computers and photographs], graphics of Viking lander; 1973 Mariner 10 mission to Venus and Mercury flight path animation, graphics of onboard television cameras, 1973 radar map of Venus, Mercury's orbit around the Sun; illustrations of Pioneer vehicles, due to be launched in 1972 and 1973 to study Jupiter, illustration of asteroid belt, Pioneer asteroid detection equipment, helicopter view of large satellite receiving dish, rendering satellite orbits Jupiter, animation Pioneer escapes solar system; illustrations Saturn and its rings, Uranus, Neptune and Triton, Jupiter and its moons; animation flight paths using Jupiter's gravity; animation radar antenna of 'grand tour' spacecraft. </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000551

**Title:** Skylark: Sounding Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 25

**Comments** <plain>A 1960s technical documentary which opens with footage of a yacht sounding its way into a harbour, followed by the launch of a Skylark sounding rocket. The rest of the film is arranged as follows: an explanation of how sounding rockets are used to survey the region between the reaches of balloons and satellites - used as an example is the S26 rocket, built for ESRO for a campaign scheduled to take place in 1967 in which it will carry experiments to determine the ionisation conditions in the upper atmosphere and to monitor the Sun's radiation; the fuel mixture used in S26 rockets; footage from Royal Ordnance factory at Bridgewater; remote filling of rocket motor case, monitoring by closed-circuit television; attachment of throat and painting of motors; test-firing of motor; payload attachment ring, attachment of base ring, wiring of equipment bays, bays locked together, calibration of sun-sensor unit; testing of deployment of expanding booms carrying various sensing electrodes; aerial system covered by glass fibre nosecone; testing of electronics unit; installation of solar experiments; nitrous oxide ionisation chambers; nosecone installed; sign: final integration bay, ESRO; rocket in final integration bay, testing of various payload components; vibration testing; sign for Perdasdefogu, the ESRO launch site in Sardinia; testing of payload; launch area and bunker, launcher structure; rollout of motors, which are then slid on drawbridge and hoisted into vertical position; grasshopper trailer brings payload to foot of tower, payload rotated to vertical position and hoisted to top of launcher; payload coupled to motors; radio transmitting equipment at Tertania; ionospheric sounder at San Lorenzo; telemetry receiver at Cardiga; control room footage, countdown and launch [September 27th, 1967]; recording of signals; ESDAC headquarters in Darmstadt, Germany - equipment in telemetry conversion room, data archive; ocean sounding using map and dividers, Skylark launch. </plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000551

**Title:** Skylark: Sounding Space

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 25

**Comments** <plain>A 1960s technical documentary which opens with footage of a yacht sounding its way into a harbour, followed by the launch of a Skylark sounding rocket. The rest of the film is arranged as follows: an explanation of how sounding rockets are used to survey the region between the reaches of balloons and satellites - used as an example is the S26 rocket, built for ESRO for a campaign scheduled to take place in 1967 in which it will carry experiments to determine the ionisation conditions in the upper atmosphere and to monitor the Sun's radiation; the fuel mixture used in S26 rockets; footage from Royal Ordnance factory at Bridgewater; remote filling of rocket motor case, monitoring by closed-circuit television; attachment of throat and painting of motors; test-firing of motor; payload attachment ring, attachment of base ring, wiring of equipment bays, bays locked together, calibration of sun-sensor unit; testing of deployment of expanding booms carrying various sensing electrodes; aerial system covered by glass fibre nosecone; testing of electronics unit; installation of solar experiments; nitrous oxide ionisation chambers; nosecone installed; sign: final integration bay, ESRO; rocket in final integration bay, testing of various payload components; vibration testing; sign for Perdasdefogu, the ESRO launch site in Sardinia; testing of payload; launch area and bunker, launcher structure; rollout of motors, which are then slid on drawbridge and hoisted into vertical position; grasshopper trailer brings payload to foot of tower, payload rotated to vertical position and hoisted to top of launcher; payload coupled to motors; radio transmitting equipment at Tertania; ionospheric sounder at San Lorenzo; telemetry receiver at Cardiga; control room footage, countdown and launch [September 27th, 1967]; recording of signals; ESDAC headquarters in Darmstadt, Germany - equipment in telemetry conversion room, data archive; ocean sounding using map and dividers, Skylark launch. </plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** no use



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**Pouction no.** 00000552

**Title:** Skylab: An Investigation Into Space

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>A documentary which gives an overview of Skylab, module due to be launched by NASA on May 14th, 1973. Arranged as follows: a look at the structure of Skylab using models and illustrations; the crew quarters habitability experiment, showing a 'crew member' performing various tasks inside a Skylab simulator - eating, 'housekeeping', shaving, strapping himself into seat, locking himself into dec with special shoe attachment, exercising, measurement of noise levels and temperature, sleeping, utilising radiation detectors, suspension of plastic plates to detect cosmic rays; magnetospheric particle composition experiment - detector foils on outside of Skylab module; underwater EV/ [Extra-Vehicular Activity] simulation, retrieval of detectors; storage of foils in freezer; in-flight maintenance tools; molecular sieve; replacement of power cable in connecting tunnel; storage of various items, including food containers; microscope shot of human cells to illustrate microgravity biomedical research, likewise with mouse and vinegar gnat pupae; general solid materials research, including scientist working and building construction, Skylab's multi-purpose electric furnace, metalograph analysis; astronaut manoeuvring unit; rendering of Skylab in orbit. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000552

**Title:** Skylab: An Investigation Into Space

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>A documentary which gives an overview of Skylab, module due to be launched by NASA on May 14th, 1973. Arranged as follows: a look at the structure of Skylab using models and illustrations; the crew quarters habitability experiment, showing a 'crew member' performing various tasks inside a Skylab simulator - eating, 'housekeeping', shaving, strapping himself into seat, locking himself into deck with special shoe attachment, exercising, measurement of noise levels and temperature, sleeping, utilising radiation detectors, suspension of plastic plates to detect cosmic rays; magnetospheric particle composition experiment - detector foils on outside of Skylab module; underwater EV/ [Extra-Vehicular Activity] simulation, retrieval of detectors; storage of foils in freezer; in-flight maintenance tools; molecular sieve; replacement of power cable in connecting tunnel; storage of various items, including food containers; microscope shot of human cells to illustrate microgravity biomedical research, likewise with mouse and vinegar gnat pupae; general solid materials research, including scientist working and building construction, Skylab's multi-purpose electric furnace, metalograph analysis; astronaut manoeuvring unit; rendering of Skylab in orbit. </plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000553

**Title:** Returns From Space

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>A 1960s documentary which deals with the concept of technology transfer - reaping the benefits, on Earth, of scientific advances made through space research. Topics covered: the concept of affluent society, people shopping, street scenes, cinema, construction etc; research and development - scientists working, electronic vehicle, rocket construction, EVA and landing module retrieval from sea, American rocket launch with in-flight footage of booster separation; rocket construction, building construction; operator navigates small model of landing module; rotation of satellite; photographs of cloud images taken from space; Hurricane pictures taken from unmanned Mercury spacecraft; satellite launch and in-orbit animation; using freeze-dried food whilst camping; rocket on launchpad; transfer of stages of Saturn rocket by Super Guppy freight plane; traditional methods of shaping metal, new method using electromagnetically-formed metal without heat or pressure; plane lands on wet runway, hydroplane tests at Langley research centre; laser research, laser-guided tunnel boring machine; fuel cell research for Gemini 5 spacecraft - fuel cell powered spot welder, tractor, golf cart, one-man submarine docking simulator, which uses cushion of air - forklift truck dumps load onto airborne pallet, household fridge is moved on cushion of air; inorganic silica paint research at Goddard space centre - painting road kerbside with yellow paint; various NASA medical studies on potential astronauts - hospital patient manoeuvres wheelchair using eyeball sensor equipment; human heart beats through incision, artificial heart, NASA research to develop control system, replacing the heart of a cat with new development; pulmonary testing with rats and rabbits; development of smaller, more lightweight electronic equipment - portable oscilloscope use in emergency situation; hearing aid, drawing electronic currents from the body, research in laboratory animals; classroom laboratory experiments. </plain>

**Keywords** TECHNOLOGY TRANSFER,NASA GENERAL,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000553

**Title:** Returns From Space

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 26

**Comments** <plain>A 1960s documentary which deals with the concept of technology transfer - reaping the benefits, on Earth, of scientific advances made through space research. Topics covered: the concept of affluent society, people shopping, street scenes, cinema, construction etc; research and development - scientists working, electronic vehicle, rocket construction, EVA and landing module retrieval from sea, American rocket launch with in-flight footage of booster separation; rocket construction, building construction; operator navigates small model of landing module; rotation of satellite; photographs of cloud images taken from space; Hurricane pictures taken from unmanned Mercury spacecraft; satellite launch and in-orbit animation; using freeze-dried food whilst camping; rocket on launchpad; transfer of stages of Saturn rocket by Super Guppy freight plane; traditional methods of shaping metal, new method using electromagnetically-formed metal without heat or pressure; plane lands on wet runway, hydroplane tests at Langley research centre; laser research, laser-guided tunnel boring machine; fuel cell research for Gemini 5 spacecraft - fuel cell powered spot welder, tractor, golf cart, one-man submarine docking simulator, which uses cushion of air - forklift truck dumps load onto airborne pallet, household fridge is moved on cushion of air; inorganic silica paint research at Goddard space centre - painting road kerbside with yellow paint; various NASA medical studies on potential astronauts - hospital patient manoeuvres wheelchair using eyeball sensor equipment; human heart beats through incision, artificial heart, NASA research to develop control system, replacing the heart of a cat with new development; pulmonary testing with rats and rabbits; development of smaller, more lightweight electronic equipment - portable oscilloscope use in emergency situation; hearing aid, drawing electronic currents from the body, research in laboratory animals; classroom laboratory experiments. </plain>

**Keywords** TECHNOLOGY TRANSFER,NASA GENERAL,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000554

**Title:** By-Products Of Space Research

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 16

**Comments** <plain>This 1960s film focusses on NASA's programme for the rapid dissemination of information on technological development. Selected examples are given as follows: X-RAY ENHANCEMENT TECHNIQUES - JPL uses computers to enhance the quality of moon and Mars picture computer enhancement of moonrock images from Surveyor same for X-rays of human skull and retina of eye; HYDROPLANING STUDIES REDUCE ACCIDENTS - images of aircraft landing and skidding on wet runways, hydroplaning test track at Langley in England, American machine for creating grooves in roads, various footage of skidding; MUSCULAR DISEASE DIAGNOSTIC TOOL - crystal momentum transducer to detect micrometeorites in space, development of medical diagnostic tool; BEARING MATERIAL DISCOVERY - the advantages of a hexagonal arrangement in metal structure in the manufacture of ball bearings, cobalt alloy artificial hip joints; RDC SERVICES AID SMALL COMPANY - design of improved flame fusion crystal-growing services; SPACE TELEMETRY IMPROVES FM BROADCASTING - various multiplex transmission equipment, development of solid state FM oscillator; INORGANIC PAINT - development of silica-based inorganic paints, demonstration of various properties; LUNAR WALKER - unmanned prototype lunar walker, adaption into 'walking chair'. See also the film 'NASA Technology Utilisation', production no. 000579. </plain>

**Keywords** TECHNOLOGY TRANSFER,NASA GENERAL,HISTORICA

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000554

**Title:** By-Products Of Space Research

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 16

**Comments** <plain>This 1960s film focusses on NASA's programme for the rapid dissemination of information on technological development. Selected examples are given as follows: X-RAY ENHANCEMENT TECHNIQUES - JPL uses computers to enhance the quality of moon and Mars picture computer enhancement of moonrock images from Surveyor same for X-rays of human skull and retina of eye; HYDROPLANING STUDIES REDUCE ACCIDENTS - images of aircraft landing and skidding on wet runways, hydroplaning test track at Langley in England, American machine for creating grooves in roads, various footage of skidding; MUSCULAR DISEASE DIAGNOSTIC TOOL - crystal momentum transducer to detect micrometeorites in space, development of medical diagnostic tool; BEARING MATERIAL DISCOVERY - the advantages of a hexagonal arrangement in metal structure in the manufacture of ball bearings, cobalt alloy artificial hip joints; RDC SERVICES AID SMALL COMPANY - design of improved flame fusion crystal-growing services; SPACE TELEMETRY IMPROVES FM BROADCASTING - various multiplex transmission equipment, development of solid state FM oscillator; INORGANIC PAINT - development of silica-based inorganic paints, demonstration of various properties; LUNAR WALKER - unmanned prototype lunar walker, adaption into 'walking chair'. See also the film 'NASA Technology Utilisation', production no. 000579. </plain>

**Keywords** TECHNOLOGY TRANSFER,NASA GENERAL,HISTORICA

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000555

**Title:** Spirits Of The Polar Night

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 29

**Comments** <plain>A documentary on the Northern Lights [Aurora Borealis]. Containing numerous personal accounts of the aurora, lengthy film footage of the phenomenon, and other footage as follows: Fort Churchill tundra research station in northern Canada; South Pole observation station, underground control centres; various historical stills of Northern Lights researchers; early time-lapse photographs of the aurora taken from space; construction of sounding rockets to study the aurora, control room; satellite construction and animations; preparation of cameras to record auroral light, images thus obtained; night launch of sounding rocket; various shots of polar research station, early sensitive real-time television system to record aurora; barium metal cloud launched towards aurora, analysis of results.  
</plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000555

**Title:** Spirits Of The Polar Night

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 29

**Comments** <plain>A documentary on the Northern Lights [Aurora Borealis]. Containing numerous personal accounts of the aurora, lengthy film footage of the phenomenon, and other footage as follows: Fort Churchill tundra research station in northern Canada; South Pole observation station, underground control centres; various historical stills of Northern Lights researchers; early time-lapse photographs of the aurora taken from space; construction of sounding rockets to study the aurora, control room; satellite construction and animations; preparation of cameras to record auroral light, images thus obtained; night launch of sounding rocket; various shots of polar research station, e: sensitive real-time television system to record aurora; bariur metal cloud launched towards aurora, analysis of results.</plain>

**Keywords** SPACE SCIENCE,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000556

**Title:** Skylab: Infrared Spectrometer

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 3

**Comments** <plain>Dr. Thomas Barnett, Skylab project scientist, explain his experiment S191 - the Skylab Earth resources spectrometer, which measures solar radiation reflected from the Earth's surface. Footage includes an astronaut's eye view of the method of operation.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 0000556

**Title:** Skylab: Infrared Spectrometer

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 3

**Comments** <plain>Dr. Thomas Barnett, Skylab project scientist, explain his experiment S191 - the Skylab Earth resources spectrometer, which measures solar radiation reflected from the Earth's surface. Footage includes an astronaut's eye view of the method of operation.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000557

**Title:** Skylab - Mission Made Possible

**Type:** Edited Video

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length** 19

**Comments** <plain>A 1970s film covering the reparation of the Skylab module, allowing its mission to proceed as planned. Footage as follows: the launch of Skylab from the Kennedy Space Centre, using a Saturn 5 launcher on May 14th 1973; control room footage; George Hardy explains, using a model and the Skylab simulator, the post-launch loss of the shield around Skylab's orbital workshop; in-flight footage of Skylab; shots of Space Centre personnel; tracking of Skylab; animation of angling of module to prevent overheating and attempt to regain power in telescope mount solar array; computer facilities centre; support team wearing quarantine masks or meeting with crewmen; different devices to remedy problem with module - inflatable devices, sails, construction of shac and booms, EVA [extra-vehicular activity] solar wing salvage tools, heat testing of workshop components, testing for gas emissions; astronauts enter underwater simulator, test procedures for Skylab reparation; folding and packing of repair equipment; May 25th Saturn 1B launch of crew and command module; interior of Skylab; underwater simulation; EVA; Skylab in orbit, Earth in background.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000557

**Title:** Skylab - Mission Made Possible

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 19

**Comments:** <plain>A 1970s film covering the reparation of the Skylab module, allowing its mission to proceed as planned. Footage as follows: the launch of Skylab from the Kennedy Space Centre, using a Saturn 5 launcher on May 14th 1973; control room footage; George Hardy explains, using a model and the Skylab simulator, the post-launch loss of the shield around Skylab's orbital workshop; in-flight footage of Skylab; shots of Space Centre personnel; tracking of Skylab; animation of angling of module to prevent overheating and attempt to regain power in telescope mount solar array; computer facilities centre; support team wearing quarantine masks or meeting with crewmen; different devices to remedy problem with module - inflatable devices, sails, construction of shac and booms, EVA [extra-vehicular activity] solar wing salvage tools, heat testing of workshop components, testing for gas emissions; astronauts enter underwater simulator, test procedures for Skylab reparation; folding and packing of repair equipment; May 25th Saturn 1B launch of crew and command module; interior of Skylab; underwater simulation; EVA; Skylab in orbit, Earth in background.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000558

**Title:** Meteosat: Experience Trajets Multiples

**Type:** Edited Video

**Category:** Documentary, technical

**Language:** French

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>Meteosat will be launched on November 23rd, 1977. This short film describes research into the reception and analysis of radar signals, utilising marine equipment for signal generation/emission and land-based receptors. Footage includes interior and exterior shots of the coastal receiving station, plus a detailed explanation of the analysis equipment.</plain>

**Keywords:** METEOSAT,HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000558

**Title:** Meteosat: Experience Trajets Multiples

**Type:** Edited Video

**Category:** Documentary, technical

**Language:** French

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>Meteosat will be launched on November 23rd, 1977. This short film describes research into the reception and analysis of radar signals, utilising marine equipment for sign generation/emission and land-based receptors. Footage includes interior and exterior shots of the coastal receiving station, plus a detailed explanation of the analysis equipmer </plain>

**Keywords:** METEOSAT,HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000562

**Title:** Introduction To ESRO

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>An introduction to ESRO, the European Space Research Organisation. Footage includes: missile on trolley; radar aerials, sounding rocket launch; diagram to show 10 participating nations; Pierre Auger, one of ESRO's founders Herman Bondi, his successor; final preparation of sounding rocket before launch; stills of Northern Lights; satellite design and testing; map to show distribution of various headquarters; various satellite research, construction by [unspecified] European contractors; map to show distribution of various headquarters; design and development of satellites at ESTEC, the Netherlands; direction of activities from ESOC in Germany, computer data processing; ESTRACK satellite tracking station, Norway; globe to show other tracking stations; ESRANGE sounding rocket launching range in Sweden, launch of ESRO sounding rocket. </plain>

**Keywords:** HISTORICAL MATERIAL,ESRO,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000562

**Title:** Introduction to ESRO

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 0

**Comments** <plain>An introduction to ESRO, the European Space Research Organisation. Footage includes: missile on trolley, radar aerials, sounding rocket launch; diagram to show 10 participating nations; Pierre Auger, one of ESRO's founders Herman Bondi, his successor; final preparation of sounding rocket before launch; stills of Northern Lights; satellite design and testing; map to show distribution of various headquarters; various satellite research, construction by [unspecified] European contractors; map to show distribution of various headquarters; design and development of satellites at ESTEC, the Netherlands; direction of activities from ESOC in Germany, computer data processing; ESTRACK satellite tracking station, Norway; globe to show other tracking stations; ESRANGE sounding rocket launching range in Sweden, launch of ESRO sounding rocket. </plain>

**Keywords** HISTORICAL MATERIAL,ESRO,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000563

**Title:** Saturn S-IV-5 Launch

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments** <plain>A short film on the S4 Saturn rocket second stage, manufactured by the Douglas corporation. The film gives an overview of the launch of this component, the first 'live' second stage to be utilised by NASA. Footage as follows: December 1963 footage from Cape Kennedy, Florida, of the first test launch of a Saturn 1 vehicle employing the S4 second stage; design and manufacture by the Douglas air company; pre-launch assembly; model of the S4 stage; Apr 1963, Santa Monica California, arrival of S4 stage - transportation by sea, installation to test stand; fuelling with cryogenic propellant, ignition and test firing; loading of stage aboard modified transport aircraft, plane takes off; unloading of stage, transferral to assembly building; first stage in assembly building showing helium spheres; integration of S stage, and payload bay; integrated tests on Saturn launch vehicle; January 29th, 1964 - countdown, launch, in-flight separation footage. </plain>

**Keywords** HISTORICAL MATERIAL,NASA GENERAL,LAUNCHERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000563

**Title:** Saturn S-IV-5 Launch

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain>A short film on the S4 Saturn rocket second stage, manufactured by the Douglas corporation. The film gives an overview of the launch of this component, the first 'live' second stage to be utilised by NASA. Footage as follows: December 1963 footage from Cape Kennedy, Florida, of the first test launch of a Saturn 1 vehicle employing the S4 second stage; design and manufacture by the Douglas air company; pre-launch assembly; model of the S4 stage; Apr 1963, Santa Monica California, arrival of S4 stage - transportation by sea, installation to test stand; fuelling with cryogenic propellant, ignition and test firing; loading of stage aboard modified transport aircraft, plane takes off; unloading of stage, transferral to assembly building; first stage in assembly building showing helium spheres; integration of S stage, and payload bay; integrated tests on Saturn launch vehicle; January 29th, 1964 - countdown, launch, in-flight separation footage. </plain>

**Keywords:** NASA GENERAL,LAUNCHERS,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000564

**Title:** Earth Resources Technology Satellite

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1973

**Length** 26

**Comments** <plain>ERTS - NASA's Earth Resources Technology Satellite - uses remote sensing to provide information about features of the Earth's surface. This film, which commence with a view of the whole Earth from space and images from the Gemini and Apollo programmes, may be summarised as follows: rocket launch from the Western Test Range in California, July 23rd 1972; animation of ERTS-1; various views of the Earth from space, cut with terrestrial footage equivalent areas; expert explains areas on remote-sensing photograph; explanation [graphics] of the workings of ERTS 1, and its flightpath; Goddard Spaceflight Centre, monitoring at operations centre; conversion of annotated data to film negative, development of film at photo lab; analysis of remote sensed photographs; interpretive technique - adding colour thematic mapping [isolation of individual elements]; various shots of scientists at the University of Wyoming, along with natural resources of Wyoming itself; NASA C-130 remote sensing plane, along with images produced; taking ground readings to evaluate ERTS; the fabrication of a land use map [Rhodes Island], computer analysis of images; plotting vegetation types using light aircraft; general footage of Alaska [including permafrost], expert demonstrates tectonic map; the accumulation of hydrologic data, and flood prediction; general overview. </plain>

**Keywords** REMOTE SENSING,NASA GENERAL,HISTORICAL MATE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000564

**Title:** Earth Resources Technology Satellite

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1973

**Length** 26

**Comments** <plain>ERTS - NASA's Earth Resources Technology Satellite - uses remote sensing to provide information about features of the Earth's surface. This film, which commence with a view of the whole Earth from space and images from the Gemini and Apollo programmes, may be summarised as follows: rocket launch from the Western Test Range in California, July 23rd 1972; animation of ERTS-1; various views of the Earth from space, cut with terrestrial footage equivalent areas; expert explains areas on remote-sensing photograph; explanation [graphics] of the workings of ERTS 1, and its flightpath; Goddard Spaceflight Centre, monitoring at operations centre; conversion of annotated data to film negative, development of film at photo lab; analysis of remote sensed photographs; interpretive technique - adding colour thematic mapping [isolation of individual elements]; various shots of scientists at the University of Wyoming, along with natural resources of Wyoming itself; NASA C-130 remote sensing plane, along with images produced; taking ground readings to evaluate ERTS; the fabrication of a land use map [Rhodes Island], computer analysis of images; plotting vegetation types using light aircraft; general footage of Alaska [including permafrost], expert demonstrates tectonic map; the accumulation of hydrologic data, and flood prediction; general overview. </plain>

**Keywords** REMOTE SENSING,NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000566

**Title:** Artemis Overview '98-Deutsch

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000566

**Title:** Artemis Overview '98-Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000566

**Title:** Artemis Overview '98-Italiano

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000566

**Title:** Artemis Overview '98-English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000566

**Title:** Artemis Overview '98-Deutsch

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000566

**Title:** Artemis Overview '98-English

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000566

**Title:** Artemis Overview '98-Francais

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000566

**Title:** Artemis Overview '98-Italiano

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Italian

**Production Date** 10/01/1997

**Length** 14

**Comments** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. This video provides general overview of the satellite - how it will work, and what is necessary.</plain>

**Keywords** TELECOMMUNICATIONS,ARTEMIS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000568

**Title:** Go For Assembly

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 09/30/1997

**Length** 11

**Comments** <plain>A documentary which looks at some of NASA's numerous developments to facilitate the building of the International Space Station. Graphic sequences are employ throughout, as are commentaries from the following NASA Station Assembly Astronauts: Mark Lee, Mike Gernhardt, Jerry Ross, Leroy Chiao, Chris Hadfield, and Tom Jones. Footage as follow s: Ed White, the first EVA [Extra-Vehicular Activity] astronaut in space, Apollo 11 astronauts the moon, Skylab repair mission EVA [all colour-tinted]; various space shuttle EVA, including floating untethered in space; short clip of shuttle flight before SRB separation; Mi Gernhardt hangs from the robotic arm; short clips EVA from various missions; various designs of CETA [Crew and Equipment Translation Assembly] cartbed being tested in shuttle payload bay; EVA footage of tethers, foot restraints etc.; cable fastening, Hubble Space Telescope repair mission; EVA and ground footage of restraint testing, testin of SAFER space lifejacket; Johnson Space Centre underwater neutral buoyancy lab, astronauts train with replicas of space station; space footage of Canadian arm; graphics of Space Station arm and Canada hand; graphics the Aercam free-flying basketball-like robot; testing of spac vision system; practising station assembly [on ground], usin balloons to stand in for station modules and computer animation simulator. </plain>

**Keywords** NASA GENERAL,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000568

**Title:** Go For Assembly

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 09/30/1997

**Length** 11

**Comments** <plain>A documentary which looks at some of NASA's numerous developments to facilitate the building of the International Space Station. Graphic sequences are employ throughout, as are commentaries from the following NASA Station Assembly Astronauts: Mark Lee, Mike Gernhardt, Jerry Ross, Leroy Chiao, Chris Hadfield, and Tom Jones. Footage as follow s: Ed White, the first EVA [Extra-Vehicular Activity] astronaut in space, Apollo 11 astronauts the moon, Skylab repair mission EVA [all colour-tinted]; various space shuttle EVA, including floating untethered in space; short clip of shuttle flight before SRB separation; Mi Gernhardt hangs from the robotic arm; short clips EVA from various missions; various designs of CETA [Crew and Equipment Translation Assembly] cartbed being tested in shuttle payload bay; EVA footage of tethers, foot restraints etc.; cable fastening, Hubble Space Telescope repair mission; EVA and ground footage of restraint testing, testin of SAFER space lifejacket; Johnson Space Centre underwater neutral buoyancy lab, astronauts train with replicas of space station; space footage of Canadian arm; graphics of Space Station arm and Canada hand; graphics the Aercam free-flying basketball-like robot; testing of spac vision system; practising station assembly [on ground], usin balloons to stand in for station modules and computer animation simulator. </plain>

**Keywords** NASA GENERAL,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000569

**Title:** MSG: Getting It Into Focus

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 10/09/1997

**Length** 4

**Comments** <plain>TPD, an institute of the TNO Dutch Institute of Applied Physics, has played an important role in the development of the new MSG satellite system, due to be launched in the year 2000. This promotional video gives a summary of the MSG, or Second Generation Satellite System - a spinning enhanced visible and infrared imager refocussing mechanism. As ESA contributed images to this video, it may use sections in its promotional films.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000572

**Title:** Skylab: Space Science Experiments

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 19

**Comments** <plain>Made prior to the launch of Skylab, the pioneering research laboratory in space, this film covers the module's facilities for experimentation in the fields of biomedical science, solar physics, crew operations, astrophysics and space technology. The film describes 6 of the 90 or so experiments performed on Skylab, using demonstrations performed in a simulator of the module. Five ultraviolet and visual photography experiments are described, with image: hot young stars, solar flares, the Earth's atmosphere and Earth's terrain. After describing the use of scientific airlock: the following experiments are demonstrated: UV astronomy experiment, UV solar photography experiment, particle collection experiment [micrometeorite collection device], UV airglow horizon photography, Earth resources/terrain photography, coronagraph contamination measurement. Equipment is shown in detail for each experiment.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000572

**Title:** Skylab: Space Science Experiments

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 19

**Comments** <plain>Made prior to the launch of Skylab, the pioneering research laboratory in space, this film covers the module's facilities for experimentation in the fields of biomedical science, solar physics, crew operations, astrophysics and space technology. The film describes 6 of the 90 or so experiments performed on Skylab, using demonstrations performed in a simulator of the module. Five ultraviolet and visual photography experiments are described, with images: hot young stars, solar flares, the Earth's atmosphere and Earth's terrain. After describing the use of scientific airlocks, the following experiments are demonstrated: UV astronomy experiment, UV solar photography experiment, particle collection experiment [micrometeorite collection device], UV airglow horizon photography, Earth resources/terrain photography, coronagraph contamination measurement. Equipment is shown in detail for each experiment.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL,HISTORICAL MATERI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000573

**Title:** 1985

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 18

**Comments** <plain>A 1970's documentary which outlines NASA's plans for a space shuttle and space station. Organised as follows: computer simulations of space shuttle and space station; simulation system at Houston's manned spacecraft centre, using footage from the Apollo 14 mission; shuttle landing simulator; animations showing deployment by shuttle of space station core module, and attachment of subsequent components; uses of the space station - pollution monitoring [with earthviews], solar observation [with solar images], development of new materials.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000573

**Title:** 1985

**Type:** Edited Video

**Category:** Library material

**Language** Norwegian

**Production Date** 00/00/00

**Length** 18

**Comments** <plain>A 1970's documentary which outlines NASA's plans for a space shuttle and space station. Organised as follows: computer simulations of space shuttle and space station; simulation system at Houston's manned spacecraft centre, using footage from the Apollo 14 mission; shuttle landing simulator; animations showing deployment by shuttle of space station core module, and attachment of subsequent components; uses of the space station - pollution monitoring [with earthviews], solar observation [with solar images], development of new materials.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000574

**Title:** Cos B. Satellite Programme

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>The first ESA satellite, the COS-B gamma ray astronomy satellite, is due to be launched by Delta from Vandenberg on August 9th, 1975. Its mission will be to spend 2 years studying the unexplained gamma bursts detected by earlier US satellites. [Note: COS-B was not actually shut down until April 26th 1982, after 80 months and over 1000 revolutions, by which time it had provided a complete survey of the galactic disc.] This film provides detailed cleanroom footage of the construction of the COS-B satellite at ESRO/CERS headquarters, followed by coverage of the calibration of the payload on a stratospheric helium balloon [October 1973] at the US National Scientific Balloon facility based in Palestine, Texas. </plain>

**Keywords** HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000574

**Title:** Cos B. Satellite Programme

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 14

**Comments** <plain>The first ESA satellite, the COS-B gamma ray astronomy satellite, is due to be launched by Delta from Vandenberg on August 9th, 1975. Its mission will be to spend 2 years studying the unexplained gamma bursts detected by earlier US satellites. [Note: COS-B was not actually shut down until April 26th 1982, after 80 months and over 1000 revolutions, by which time it had provided a complete survey of the galactic disc.] This film provides detailed cleanroom footage of the construction of the COS-B satellite at ESRO/CERS headquarters, followed by coverage of the calibration of the payload on a stratospheric helium balloon [October 1973] at the US National Scientific Balloon facility based in Palestine, Texas. </plain>

**Keywords** HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000575

**Title:** Variations On A Diamond

**Type:** Edited Video

**Category:** Music clip

**Language** French

**Production Date** 00/00/00

**Length** 6

**Comments** <plain>A highly stylised 1970s film produced to illustrate how pictures of space research can be used to aesthetic effect. Set to a specially-composed soundtrack, images of the launch of CNES Diamant rockets are interspersed with cleanroom shots of various components, tracking station receiving dishes, etc. Original film stock badly scratched.</plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000575

**Title:** Variations On A Diamond

**Type:** Edited Video

**Category:** Music clip

**Language:** French

**Production Date:** 00/00/00

**Length:** 6

**Comments:** <plain>A highly stylised 1970s film produced to illustrate how pictures of space research can be used to aesthetic effect. Set to a specially-composed soundtrack, images of the launch of CNES Diamant rockets are interspersed with cleanroom shots of various components, tracking station receiving dishes, etc. Original film stock badly scratched.</plain>

**Keywords:** LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000576

**Title:** Halley Flyby Tempel 2

**Type:** Edited Video

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 11

**Comments:** <plain>A series of graphics which show the proposed rendezvous between NASA's Tempel 2 spacecraft and Halley's comet. Sequences include: image of Halley's comet and text and animation to show physical characteristics of Halley's comet and its orbit; same for Tempel 2; animation to show comet's Earth flyby on April 10th, 1986; Halley's comet and Tempel 2 rendezvous trajectory - launch of spacecraft on August 1st, 1985, flyby on November 27th, 1985, rendezvous on July 16th, 1988; illustration of launch by shuttle; animation of Halley flyby as viewed from spacecraft.</plain>

**Keywords:** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000576

**Title:** Halley Flyby Tempel 2

**Type:** Edited Video

**Category:** Graphics

**Language** Mute

**Production Date** 00/00/00

**Length:** 11

**Comments** <plain>A series of graphics which show the proposed rendezvous between NASA's Tempel 2 spacecraft and Halley's comet. Sequences include: image of Halley's comet text and animation to show physical characteristics of Halley's comet and its orbit; same for Tempel 2; animation to show comet's Earth flyby on April 10th, 1986; Halley's comet and Tempel 2 rendezvous trajectory - launch of spacecraft on August 1st, 1985, flyby on November 27th, 1985, rendezvous on July 16th, 1988; illustration of launch by shuttle; animation of Halley flyby as viewed from spacecraft.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000577

**Title:** Saturn S-IV Stage

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The S4 Saturn rocket stage, manufactured by the Douglas Aircraft Space Division, is the first 'live' second stage to be utilized by NASA. This film details the production and testing highlights of the stage. Sections as follows: flyby footage of Douglas buildings, model of S4 stage; milling the tank section in a waffle pattern; forming the tank walls on a brake machine; explosive milling of the propellant tank segments; chemical milling of common dome segments; fabrication of forward and aft structural panels; dome construction, welding to bulkhead; assembly of S4 stage components - forward interstage, aft skirt, thrust structure, LOX tank baffle, aft interstage; installation and welding in assembly and calibration tower; test facility to study the characteristics of liquid hydrogen at -423 degrees Fahrenheit; surface behaviour test; testing of Saturn S4 stages at Douglas Sacramento Facility; liquid hydrogen storage tanks; liquid hydrogen characteristics testing tank - filling with liquid hydrogen, pressurizing the tank, draining the tank; 'battleship' test tank; installation of steam ejectors for altitude simulator system; first large-scale flow of hydrogen and liquid oxygen.</plain>

**Keywords:** LAUNCHERS,NASA GENERAL,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000577

**Title:** Saturn S-IV Stage

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The S4 Saturn rocket stage, manufactured by the Douglas Aircraft Space Division, is the first 'live' second stage to be utilized by NASA. This film details the production and testing highlights of the stage. Sections as follows: flyby footage of Douglas buildings, model of S4 stage; milling the tank section in a waffle pattern; forming the tank walls on a brake machine; explosive milling of the propellant tank segments; chemical milling of common dome segments; fabrication of forward and aft structural panels; dome construction, welding to bulkhead; assembly of S4 stage components - forward interstage, aft skirt, thrust structure, LOX tank baffle, aft interstage; installation and welding in assembly and calibration tower; test facility to study the characteristics of liquid hydrogen at -423 degrees Fahrenheit; surface behaviour test; testing of Saturn S4 stages at Douglas Sacramento Facility; liquid hydrogen storage tanks; liquid hydrogen characteristics testing tank - filling with liquid hydrogen, pressurizing the tank, draining the tank; 'battleship' test tank; installation of steam ejectors for altitude simulator system; first large-scale flow of hydrogen and liquid oxygen.</plain>

**Keywords:** NASA GENERAL,LAUNCHERS,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000579

**Title:** NASA Technology Utilisation

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 01/01/1965

**Length** 11

**Comments** <plain>This 1965 film focusses on NASA's programme for the rapid dissemination of information of technological development. Selected examples are given as follows: TYF HYDROPLANING: images of planes landing and skidding on wet runways, hydroplaning test track at Langley in England speedboat skims across water, various hydroplaning footage; INORGANIC PAINT: development of various silica-based inorganic paints, demonstration of various properties ELECTROMAGNETIC HAMMER: formation of ridges in aluminium cannisters using electromagnet, use of electromagnetic hammer to smooth out welding flaws in launcher components; use in the shipbuilding industry; BIOTELEMETRY: use of the wireless electrocardiogram monitor; SIGHT SWITCH: using the differential reflectivity of the white and the iris of the eye, the use of infrared source/sensor switch mechanisms by paralysed people; LUNA R WALKER: unmanned prototype lunar walker, adaption into 'walking chair'. See also the film 'By-Products Of Space Research' [Production No. 000554]. </plain>

**Keywords** TECHNOLOGY TRANSFER,NASA GENERAL,HISTORICA

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000579

**Title:** NASA Technology Utilisation

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 01/01/1965

**Length** 11

**Comments** <plain>This 1965 film focusses on NASA's programme for the rapid dissemination of information of technological development. Selected examples are given as follows: TYF HYDROPLANING: images of planes landing and skidding on wet runways, hydroplaning test track at Langley in England speedboat skims across water, various hydroplaning footage; INORGANIC PAINT: development of various silica-based inorganic paints, demonstration of various properties ELECTROMAGNETIC HAMMER: formation of ridges in aluminium cannisters using electromagnet, use of electromagnetic hammer to smooth out welding flaws in launcher components; use in the shipbuilding industry; BIOTELEMETRY: use of the wireless electrocardiogram monitor; SIGHT SWITCH: using the differential reflectivity of the white and the iris of the eye, the use of infrared source/sensor switch mechanisms by paralysed people; LUNA R WALKER: unmanned prototype lunar walker, adaption into 'walking chair'. See also the film 'By-Products Of Space Research' [Production No. 000554]. </plain>

**Keywords** TECHNOLOGY TRANSFER,NASA GENERAL,HISTORICA

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000580

**Title:** Ariane 502 Launch Highlights

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French and English

**Production Date** 10/30/1997

**Length** 27

**Comments** <plain>The second qualification flight of Ariane 5 was successfully launched on October 30th, 1997. This video is an edited version of the live transmission which gives an overview of the launch from Kourou. Lack of French audio on track 1 during initial sequence.</plain>

**Keywords** LAUNCHERS,HISTORICAL MATERIAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 0000582

**Title:** Space Shuttle

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A 1970s documentary outlining NASA's Space Shuttle development project. Footage as follows: Saturn Apollo launch clips, including in-flight stage separation; Enterprise shuttle at construction stage; aerial views of Kennedy Space Centre; launch and flight simulation of shuttle; various construction footage; Boeing 747 flight test carrier aircraft; manufacture and testing of engines; development and fabrication of external tank; booster splashdown testing; graphics of Spacelab and remote manipulator system; Kennedy Space Centre shuttle landing runway; various artistic impressions of shuttle project; rollout of shuttle. </plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000582

**Title:** Space Shuttle

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>A 1970s documentary outlining NASA's Space Shuttle development project. Footage as follows: Saturn Apollo launch clips, including in-flight stage separation; Enterprise shuttle at construction stage; aerial views of Kennedy Space Centre; launch and flight simulation of shuttle; various construction footage; Boeing 747 flight test carrier aircraft; manufacture and testing of engines; development and fabrication of external tank; booster splashdown testing; graphics of Spacelab and remote manipulator system; Kennedy Space Centre shuttle landing runway; various artistic impressions of shuttle project; rollout of shuttle. </plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000584

**Title:** Huygens: Alive And Well

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 10/24/1997

**Length** 9

**Comments** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Del rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. The probe has been developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finally encounters. This film provides a summary of the mission so far, showing how data received has reassured scientists that all of Huygens' instruments are functioning as planned.</plain>

**Keywords** SPACE SCIENCE,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000585

**Title:** Mercure: The Green Network

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 11/01/1997

**Length** 11

**Comments** <plain>Mercure is a telecommunications system developed by ESA and donated to UNEP [United Nations Environmental Programme] by the six European donor countries. The system uses two Intelsat satellites providing worldwide coverage. It is seen as a major contributor towards the acquisition of environmental data. This film gives an overview of the Mercure programme - its aims, structure and functioning.</plain>

**Keywords** TELECOMMUNICATIONS,MERCURE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000591

**Title:** RTG's: Powering Space Exploration

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1997

**Length** 94

**Comments** <plain>A documentary focussing on the structure and safe of RTGs [radioactive isotope thermoelectric generators], as used in the joint ESA/NASA Huygens/Cassini mission launched in November 1997. Organised as follows: animatic of the solar system; RTGs, as used on the Voyager, Galileo and Ulysses missions; presentation of a prototype RTG to Eisenhower [still]; animations to show the radioactive deca Plutonium 238; ESA and NASA's work on photovoltaic solar cells; safety testing of RTGs; Cassini construction; animatio of the Huygens mission; animation showing the impracticali of using solar arrays for interplanetary probes; animation Galileo at Jupiter, Galileo's trajectory to Jupiter; list of missions on which RTGs have been used, along with some footage and animations of these missions; cutaway view o RTG; heat source modules; list of probable accident environments; explosion blast overpressure test, projectile impact bullet test; rocket sled test for face-on and edge-on fragment collisions; impact tests; fire testing; animations of Cassini/Huygens mission, along with images of Saturn and Titan from previous missions; assembly of Cassini spacecr in high bay; Cassini/Huygens briefing on mission hardware, especially RTGs; Cassini RTG units, monitoring of radioactivity levels; Cassini in cleanroom; Cassini/Huygens disc attached to probe during press meeting; removal of Cassini from assembly area, various cleanroom footage; w on Huygens probe.</plain>

**Keywords** NASA GENERAL,HUYGENS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000592

**Title:** NASA Huygens/Cassini Launch

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 10/15/1997

**Length:** 69

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Del rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. The probe has been developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finally encounters. This tape covers the live broadcast footage of the launch, as follows: Delta launcher and payload on launchpad, cut with footage of control room; overview of mission including animations, Huygens construction, Voyag images of Saturn and Titan; cut back to launcher and contrc room; more mission overview material - design and testing Huygens probe, animation of mission; back to launcher on launchpad; arrival and unpacking of Huygens probe, mating to Cassini spacecraft; spacecraft rolled out, mating to launcher; back to launcher on launchpad; short animation fil on meteorology of Titan; mission directors' centre; short animation film on Titan's surface, and the measurements which will be taken by Huygens; Cassini probe removed fro launcher, transported to servicing facility, insulation remove and replaced. spacecraft tranferred back to launcher; overview film of Cassini mission; cut back to launcher, laun sequence; SRB [solid rocket booster] separation, control room, various launch replays.</plain>

**Keywords:** NASA GENERAL,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000593

**Title:** What's Cooking In Space

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1997

**Length** 12

**Comments** <plain>Presented by NASA astronauts Marty Feffman and Shannon Lucid, this video illustrates the specially-prepared food [both Russian and American] used for shuttle missions. Includes some in-flight footage of meal preparation, etc.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000593

**Title:** What's Cooking In Space

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1997

**Length** 12

**Comments** <plain>Presented by NASA astronauts Marty Feffman and Shannon Lucid, this video illustrates the specially-prepared food [both Russian and American] used for shuttle missions. Includes some in-flight footage of meal preparation, etc.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000593

**Title:** What's Cooking In Space

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 01/01/1997

**Length** 12

**Comments** <plain>Presented by NASA astronauts Marty Feffman and Shannon Lucid, this video illustrates the specially-prepared food [both Russian and American] used for shuttle missions. Includes some in-flight footage of meal preparation, etc.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000595

**Title:** Ariane 501 Aerospatiale Stock-Shots

**Type:** Video Index

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 01/01/1995

**Length** 31

**Comments** <plain>Stockshots related to the Ariane 501 pre-launch campaign</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000596

**Title:** Space Shuttle Enterprise

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 00/00/00

**Length:** 14

**Comments** <plain>A 1970s documentary containing useful [albeit mute] images of NASA's pioneering Enterprise Shuttle. Including: rollout of shuttle to cheering crowds; shuttle on Boeing 747 flight test carrier aircraft; flight of remote-controlled miniatur model of the shuttle and test carrier aircraft; shuttle flight simulator; animations [using models] of shuttle mission.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,HISTORICAL MAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000596

**Title:** Space Shuttle Enterprise

**Type:** Edited Video

**Category:** Documentary, general public

**Language** Mute

**Production Date** 00/00/00

**Length:** 14

**Comments** <plain>A 1970s documentary containing useful [albeit mute] images of NASA's pioneering Enterprise Shuttle. Including: rollout of shuttle to cheering crowds; shuttle on Boeing 747 flight test carrier aircraft; flight of remote-controlled miniatur model of the shuttle and test carrier aircraft; shuttle flight simulator; animations [using models] of shuttle mission.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,HISTORICAL MAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000597

**Title:** Meteosat Index 1997 - Francais

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** French

**Production Date** 11/17/1997

**Length** 29

**Comments** <plain>Meteosat 7 - the last in the series of ESA's highly successful meteorological satellites - was launched in September 1997. The next generation of Meteosat is already being worked on, with the capability to handle 100 times more data than the current satellites. This video index looks at the last 20 years of Meteosat - from the launch of Meteosat 1 in 1977 to the first Meteosat Second Generation Satellite, MSG1, scheduled for launch in the year 2000.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000597

**Title:** Meteosat Index 1997 - English

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 11/17/1997

**Length** 29

**Comments** <plain>Meteosat 7 - the last in the series of ESA's highly successful meteorological satellites - was launched in September 1997. The next generation of Meteosat is already being worked on, with the capability to handle 100 times more data than the current satellites. This video index looks at the last 20 years of Meteosat - from the launch of Meteosat 1 in 1977 to the first Meteosat Second Generation Satellite, MSG1, scheduled for launch in the year 2000.</plain>

**Keywords** WEATHER SATELLITES,METEOSAT

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000598

**Title:** ESA Image Bank 1997

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 11/24/1997

**Length:** 60

**Comments** <plain>A collection of important images demonstrating man's exploration and exploitation of space. The video [which focusses mainly on European ventures] starts with early projects - Sputnik, Yuri Gagarin, the Apollo missions - goes on to catalogue the formation and progression of ESRO and ELDO in the 1960s, and provides extensive coverage of ESA's recent, contemporary and future space missions. Chapters as follows: From The Space Race To The Fall Of The Iron Curtain; A Tour Through ESA In The Nineties; A Comprehensive Programme For Europe's Space Effort; Fac About ESA. A comprehensive script accompanies this video </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000598

**Title:** ESA Image Bank 1997

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 11/24/1997

**Length:** 60

**Comments** <plain>A collection of important images demonstrating man's exploration and exploitation of space. The video [which focusses mainly on European ventures] starts with early projects - Sputnik, Yuri Gagarin, the Apollo missions - goes on to catalogue the formation and progression of ESRO and ELDO in the 1960s, and provides extensive coverage of ESA's recent, contemporary and future space missions. Chapters as follows: From The Space Race To The Fall Of The Iron Curtain; A Tour Through ESA In The Nineties; A Comprehensive Programme For Europe's Space Effort; Fac About ESA. A comprehensive script accompanies this video </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000599

**Title:** Food In Space

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 11/01/1997

**Length:** 7

**Comments:** <plain>A compilation of material which shows ESA astronauts eating in space. Features Thomas Reiter [Eurom '95] and Ulf Merbold euromir '94]. </plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000600

**Title:** Decollage, Lift-Off

**Type:** Edited Video

**Category:** Music clip

**Language:** ME only

**Production Date:** 11/18/1997

**Length:** 21

**Comments:** <plain>A stylised montage of footage from the Ariane 502 launcher campaign, including many shots of the launch itse </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000600

**Title:** Decollage, Lift-Off

**Type:** Edited Video

**Category:** Music clip

**Language:** ME only

**Production Date:** 11/18/1997

**Length:** 21

**Comments:** <plain>A stylised montage of footage from the Ariane 502 launcher campaign, including many shots of the launch itse </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000601

**Title:** Pedro Duque Stock Shots

**Type:** Video Index

**Category:** VNR

**Language** M/E only

**Production Date** 07/27/1998

**Length:** 47

**Comments:** <plain>Material on the Spanish ESA astronaut Pedro Duque who is scheduled to fly in late October 1998 on the STS-95 mission. Pedro's first mission, this will be the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The flight crew will include John Glenn, the US Senator who was the first American in orbit in 1962.</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000601

**Title:** Pedro Duque Stock Shots

**Type:** Video Index

**Category:** VNR

**Language** M/E only

**Production Date** 07/27/1998

**Length:** 47

**Comments:** <plain>Material on the Spanish ESA astronaut Pedro Duque who is scheduled to fly in late October 1998 on the STS-95 mission. Pedro's first mission, this will be the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The flight crew will include John Glenn, the US Senator who was the first American in orbit in 1962.</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000602

**Title:** Ariane 502 Technical Films

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 11/01/1997

**Length:** 13

**Comments:** <plain>Set to music [not for external use], this video contain a selection of footage of the Ariane 502 launch [October 30 1997] shot from different viewpoints and using different techniques.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000603

**Title:** Ariane 502 - Technical Images

**Type:** Edited Video

**Category:** miscellaneous

**Language** M/E only

**Production Date** 11/01/1997

**Length:** 24

**Comments:** <plain>A selection of graphics and live-action footage related to the successful launch of Ariane 502 on October 30th, 1997. Including: graphics and footage of ignition of Vulcain engine; graphics and footage of lift-off; graphics and footage of first stage of flight; graphics and footage of booster stage separation; graphics of fairing jettison. Each footage section contains various camera angles of the launch using different techniques.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000605

**Title:** Ariane 502 Live Transmission 1 (taped at ESA - no lift-off)

**Type:** Edited Video

**Category:** miscellaneous

**Language** French

**Production Date** 10/30/1997

**Length:** 63

**Comments** <plain>Live broadcast providing coverage of the Ariane 50:  
launch, on October 30th 1997. Contains pre-cut sequences  
of Ariane 501 launch, launcher construction, animations etc  
</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000605

**Title:** Ariane 502 Live Transmission 1

**Type:** Edited Video

**Category:** miscellaneous

**Language** French

**Production Date** 10/30/1997

**Length:** 63

**Comments** <plain>Live broadcast providing coverage of the Ariane 50:  
launch, on October 30th 1997. Contains pre-cut sequences  
of Ariane 501 launch, launcher construction, animations etc  
</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000605

**Title:** Ariane 502 Live Transmission 1 (taped in Kourou)

**Type:** Edited Video

**Category:** miscellaneous

**Language** French and English

**Production Date** 10/30/1997

**Length:** 63

**Comments** <plain>Live broadcast providing coverage of the Ariane 502 launch, on October 30th 1997. Contains pre-cut sequences of Ariane 501 launch, launcher construction, animations etc </plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000606

**Title:** Ariane 502 Live Transmission 2 (taped at ESA - no lift-off!)

**Type:** Edited Video

**Category:** miscellaneous

**Language** French

**Production Date** 10/30/1997

**Length:** 62

**Comments** <plain>Live broadcast providing coverage of the Ariane 502 launch, on October 30th 1997. Contains pre-cut sequences of Ariane 501 launch, launcher construction, animations etc This tape contains footage of the launch itself, and coverage of satellite deployment.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000606

**Title:** Ariane 502 Live Transmission 2

**Type:** Edited Video

**Category:** miscellaneous

**Language:** French

**Production Date:** 10/30/1997

**Length:** 62

**Comments:** <plain>Live broadcast providing coverage of the Ariane 502 launch, on October 30th 1997. Contains pre-cut sequences of Ariane 501 launch, launcher construction, animations etc This tape contains footage of the launch itself, and coverage of satellite deployment.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000606

**Title:** Ariane 502 Live Transmission 2 (taped in Kourou)

**Type:** Edited Video

**Category:** miscellaneous

**Language:** French and English

**Production Date:** 10/30/1997

**Length:** 62

**Comments:** <plain>Live broadcast providing coverage of the Ariane 502 launch, on October 30th 1997. Contains pre-cut sequences of Ariane 501 launch, launcher construction, animations etc This tape contains footage of the launch itself, and coverage of satellite deployment.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000608

**Title:** Satellite Communications Index '97

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 12/02/1997

**Length** 47

**Comments** <plain>A general index covering satellite communications - containing both historical images and contemporary footage.</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000608

**Title:** Satellite Communications Index '97

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 12/02/1997

**Length** 47

**Comments** <plain>A general index covering satellite communications - containing both historical images and contemporary footage.</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000615

**Title:** ERS - The Ongoing Mission

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 12/19/1997

**Length** 22

**Comments** <plain>Part one of the series 'ERS-Watching The World.'  
ESA's European Remote Sensing satellites ERS-1 and ERS-2 were launched in 1991 and 1995 respectively. In addition to providing scientific data, these satellites now support operational and commercial applications of Earth observation worldwide. This five-part series gives an overview of the structure, use and capabilities of the ERS satellites. 'The Ongoing Mission' describes the structure of the ERS satellites, and examines the functions of their various instruments; ground support for the missions is also discussed.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000615

**Title:** ERS - The Ongoing Mission

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 12/19/1997

**Length** 22

**Comments** <plain></plain>

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000615

**Title:** ERS - The Ongoing Mission

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 12/19/1997

**Length** 22

**Comments** <plain></plain>

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000618

**Title:** ISS Video Progress Report

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 09/01/1997

**Length** 10

**Comments** <plain>A progress report on the ISS [International Space Station] from August of 1997. Contains footage of the construction of: the Russian FGB [Functional Cargo Block], the American Node 1 component, and the Russian service module; animations to show the step-by-step construction of the station; astronaut training - splashdown, microgravity training in the pool at Sunny Carter Training Facility [at the Johnson Space Centre in Houston]; press statements from space station astronauts Bill Shepherd [commander] and Sergei Krikalev [flight engineer]. </plain>

**Keywords** NASA GENERAL,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000618

**Title:** ISS Video Progress Report

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 09/01/1997

**Length** 10

**Comments** <plain>A progress report on the ISS [International Space Station] from August of 1997. Contains footage of the construction of: the Russian FGB [Functional Cargo Block], the American Node 1 component, and the Russian service module; animations to show the step-by-step construction the station; astronaut training - splashdown, microgravity training in the pool at Sunny Carter Training Facility [at the Johnson Space Centre in Houston]; press statements from space station astronauts Bill Shepherd [commander] and Sergei Krikalev [flight engineer]. </plain>

**Keywords** NASA GENERAL,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000618

**Title:** ISS Video Progress Report

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 09/01/1997

**Length** 10

**Comments** <plain>A progress report on the ISS [International Space Station] from August of 1997. Contains footage of the construction of: the Russian FGB [Functional Cargo Block], the American Node 1 component, and the Russian service module; animations to show the step-by-step construction the station; astronaut training - splashdown, microgravity training in the pool at Sunny Carter Training Facility [at the Johnson Space Centre in Houston]; press statements from space station astronauts Bill Shepherd [commander] and Sergei Krikalev [flight engineer]. </plain>

**Keywords** NASA GENERAL,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000619

**Title:** Ariane 4: Vol 100

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 01/10/1997

**Length:** 17

**Comments** <plain>The Intelsat 803 satellite was launched on September 22nd, 1997. This film gives a summary of the key stages of the Ariane 4 Vol 100 campaign, from arrival of the satellite and rocket components to the launch itself.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000620

**Title:** Ariane 4: Vol 102

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 01/12/1997

**Length:** 16

**Comments** <plain>The Ariane 4 Vol 502 launch, on November 12th 1997, carried the Sirius 2 and Cakrawata 1 satellites into orbit. This video contains footage of the whole campaign, including: arrival of launcher; erection of first, second and third stages; integration of vehicle equipment bay; rollout of launcher; withdrawal of final assembly building; arrival of Cakrawata 1 satellite, integration of satellite into transport container; transportation, spin-testing, application of foil, fuelling; arrival of Sirius 2 satellite, opening of solar arrays, satellite enclosed in container, transportation, fuelling; integration into base; satellites incorporated into payload base hoisted to top of launcher, integration; application of logos, final assembly building rolled away, launch, stage separation, IR tracking separation; tracking graph with inset showing control room personnel during deployments; speech of thanks to Arianespace. </plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000627

**Title:** Ariane 4: Vol 103 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1998

**Length:** 18

**Comments:** <plain>The Ariane 4 Vol. 103 launch, on December 2nd 1997, carried the JCSAT-5 and Equator-S satellites into orbit. This video contains coverage of the campaign, arranged as follows: cleanroom clips of JCSAT-5 and Equator-S satellite arrival of Airbus, freight container bearing Air France logo; unloading and assembly of Equator-S satellite; arrival by plane of JCSAT-5; cleanroom satellite assembly, engineers on hoists; satellite fuelling; arrival of MN Toucan vessel; assembly of various components of Ariane launcher, vehicle equipment bay; rollout of launcher; satellite lowered onto engine; payload fairing closed and logos applied; rollout of payload bay; final assembly building rolled away; cameras : up to record launch; various footage of launch, tracking graphic superimposed over control room footage; applause etc.  
</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000628

**Title:** Ariane 4: Vol. 104 Videotransmission

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French and English

**Production Date:** 12/01/1997

**Length:** 50

**Comments:** <plain>The Ariane 4 Vol 104 launch carried the Intelsat 804 satellite into orbit on December 21st, 1997. This video contains a live broadcast from CSG Kourou, Europe's spaceport, documenting the launch as follows [Arianespace logo in frame]: various pre-launch control room footage, rocket on launchpad [with green status windows], animatio to show components of rocket, payload and transfer orbit; extensive pre-launch control room footage; shots of launch being rolled from final assembly building; view from behind desk of Director of Operations; split-screen view of cryotechnic arms; countdown, various views of launch; tracking graph with control room insert; post-launch control room [shaking hands, etc]; live comment [over captioned photograph] from Jean-Marie Luton, Chairman and CEO Arianespace; comment from Terry Edwards, Intelsat Missio Director; launch replay, audience exits.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000629

**Title:** ISS Crew Announcement and Flight

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 11/05/1997

**Length:** 18

**Comments:** <plain>The first component of the International Space Statio is due to be launched in 1988. At the time of making this film the first four ISS crews have been announced, and are as follows: first crew : Bill Shepherd, Yuri Gidzenko, Sergei Krikalev second crew : Yuri Isachev, James Voss, Susan Helms third crew : Kenm Bow ersox, Vladimir Dezhurov, Mikhail Turin fourth crew : Yuri Onufrienko, Carl Walz, Dan Bursch This video contains various footage of training for t missions, and the first few elements of the ISS. </plain>

**Keywords:** MANNED SPACEFLIGHT,INTERNATIONAL SPACE STATI

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000629

**Title:** ISS Crew Announcement and Flight

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** Natural Sound Only

**Production Date** 11/05/1997

**Length:** 18

**Comments** <plain>The first component of the International Space Station is due to be launched in 1998. At the time of making this film the first four ISS crews have been announced, and are as follows: first crew : Bill Shepherd, Yuri Gidzenko, Sergei Krikalev second crew : Yuri Isachev, James Voss, Susan Helms third crew : Ken Bowersox, Vladimir Dezhurov, Mikhail Turin fourth crew : Yuri Onufrienko, Carl Walz, Dan Bursch This video contains various footage of training for the missions, and the first few elements of the ISS. </plain>

**Keywords** MANNED SPACEFLIGHT,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000630

**Title:** Europe And The International Space Station

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language** Natural Sound Only

**Production Date** 01/16/1998

**Length:** 18

**Comments** <plain>A B-roll which highlights Europe's role in the imminent International Space Station. Using a mixture of animations and live-action footage, this video depicts the COF [Columbus Orbital Facility], ATV [Automated Transfer Vehicle], Europe's Robotic Arm and Mini Pressurized Logistics Module [MPLM]. Ulf Merbold is shown inspecting the COF mock-up at ESTEC in the Netherlands.</plain>

**Keywords** MANNED SPACEFLIGHT,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000631

**Title:** Spot 4 -Integration Footage

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French

**Production Date:** 12/01/1997

**Length:** 8

**Comments:** <plain>The CNES Earth Observation satellite Spot 4 is due to be launched by Ariane 4 in spring of 1998. It will carry a Sil terminal for laser communication with the European Artemis satellite. This video contains stills of the satellite and cleanroom footage illustrating its construction. Footage was recorded at Matra Marconi and Intespace, both based at Toulouse in France.</plain>

**Keywords:** SPOT,ARTEMIS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000635

**Title:** The Sun Is Awakening

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French and English

**Production Date:** 01/10/1998

**Length:** 12

**Comments:** <plain>For two years after the launch of ESA's Solar and Heliospheric Observatory on December 2nd, 1995, the Sun has been in a quiet phase. Now scientists see the start of a new cycle of violent activity, with solar storms becoming more frequent. This video explains the role of SOHO in monitoring the Sun's activities, and why this forecasting service is important to mankind. It includes several new SOHO images including sunspots and proton showers, and interviews with ESA's Director Of Scientific Programmes Roger Bonnet.</plain>

**Keywords:** SPACE SCIENCE,SOHO

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000638

**Title:** Ariane 502: Technical Films

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 12/30/1997

**Length:** 24

**Comments:** <plain>Technical images, recorded on 35mm and 16mm film of the successful launch and flight of Ariane 502 on October 30th 1997. Images are taken at different angles and at different speeds.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000640

**Title:** Cassini-Huygens Update Sept. '97

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French and English

**Production Date:** 09/11/1997

**Length:** 18

**Comments:** <plain>Scheduled for launch in October 1997, NASA's Cassini mission will carry the ESA probe Huygens toward Saturn's intriguing moon Titan. The probe is being developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finds at encounters. This video gives an overview of the mission, including: final cleanroom preparations at Cape Canaveral, Florida, the United States; animations of the mission; Voyager images of Saturn and Titan; comments from various scientists. French and English versions exist on this cassette.</plain>

**Keywords:** SPACE SCIENCE,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000642

**Title:** International Space Station NASA Resource Reel 29 Jan 98

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 01/29/1998

**Length** 15

**Comments** <plain>A chapter-structred video index covering the first assembly missions of the International Space Station. Images include: 3-D graphics of full ISS (various fly-bys highlighting international contributions, each approx. 10 sec); 3-D graphics FGB solar array deployment; FGB module under construction; 3-D graphics Proton launch; Proton launcher under construction; 3-D graphics Node 1 launch; Node 1 under construction and arrival at KSC; STS-88 crew inspection of hardware and training (EVA training using underwater neutral bouyancy facility); Mating adapter under construction; 3-D graphics Service Module solar array deployment and docking; Service Module under construction; Bill Shepherd inspects Service Module; 3-D graphics of assembly flights 3A (mating of Node 2) and 2R (Soyuz docking); Bill Shepherd at Soyuz training; Tests and construction of following hardware: solar arrays, US Lab, American airlock, Hab Lab, JEM (incl graphics); 3-D graphic ATV launch and Canadian Robot Arm.</plain>

**Keywords** SPACE STATIONS,SHUTTLE MISSIONS,MANNED SPAC

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000644

**Title:** XMM - the world's most powerful X-ray telescope

**Type:** Edited Video

**Category:** VNR

**Language** English

**Production Date** 02/10/1998

**Length** 6

**Comments** <plain>VNR on the occasion of the XMM testing at ESA's ESTEC establishment. Footage includes images of XMM and construction of its mirrors. Interview comments by John Credland, Head of ESA's Science Projects Department. A-roll length: 1'18" B-roll length: 6'00"</plain>

**Keywords** XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000645

**Title:** Skyplex

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 02/13/1998

**Length:** 8

**Comments:** <plain>The ESA-Eutelsat developed Skyplex payload on Hot Bird 4 is an example of how satellite technologies are adapting to the digital broadcasting environment. Direct uplinking from a production facility to a satellite eliminates the use of terrestrial master stations; Skyplex puts this objective into reality. It is possible for a production facility to transmit its programmes as a digital stream. The Skyplex processor onboard Hotbird 4 receives these low-rate sources and recombines them into a single, high-rate multi-channel digital video broadcast signal transmitted directly to viewers' homes. Skyplex payloads are mounted on Eutelsat's Hot Bird 4 and Hot Bird 5 satellites, due to be launched in late February and Summer 1998 respectively. Second-generation Skyplex processors, capable of handling the different kinds of data found in advanced multimedia applications and able to provide multi-beam downlink operations, are currently under development. The Skyplex payload has been built by Alenia Spazio in Rome, Italy under ESA contract. </plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000646

**Title:** ERS- Watching The Ground Shake

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French and English

**Production Date:** 01/12/1998

**Length:** 31

**Comments:** <plain>Part two of the series 'ERS-Watching The World.'  
ESA's European Remote Sensing satellites ERS-1 and ERS-2 were launched in 1991 and 1995 respectively. In addition to providing scientific data, these satellites now support operational and commercial applications of Earth observation worldwide. This five-part series gives an overview of the structure, use and capabilities of the ERS satellites. 'Watching The Ground Shake' examines the use of ERS's SAR [synthetic aperture radar] instrument to produce interferograms, and the subsequent production of DEMs [digital elevation models]. These have important applications in ascertaining seismic changes and topographic mapping. A comprehensive script accompanies this video.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000646

**Title:** ERS- Watching The Ground Shake

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French and English

**Production Date:** 01/12/1998

**Length:** 31

**Comments:** <plain>Part two of the series 'ERS-Watching The World.'  
ESA's European Remote Sensing satellites ERS-1 and ERS-2 were launched in 1991 and 1995 respectively. In addition to providing scientific data, these satellites now support operational and commercial applications of Earth observation worldwide. This five-part series gives an overview of the structure, use and capabilities of the ERS satellites. 'Watching The Ground Shake' examines the use of ERS's SAR [synthetic aperture radar] instrument to produce interferograms, and the subsequent production of DEMs [digital elevation models]. These have important applications in ascertaining seismic changes and topographic mapping. A comprehensive script accompanies this video.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000654

**Title:** Eutelsat VNR

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 02/01/1998

**Length:** 22

**Comments:** <plain>A video index which illustrates Eutelsat's input to the space sector.</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000656

**Title:** SILEX on board SPOT-4 News Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language** M/E only

**Production Date** 03/09/1998

**Length:** 9

**Comments:** <plain>This news index includes material assembled on the occasion of the SPOT-4 launch on Ariane V106, in March 1998. France's SPOT-4 satellite carries the ESA-developed SILEX terminal for the direct laser-optical communications between satellites in space. SILEX will permit the relaying of remote sensing data from SPOT-4, via Artemis, to Europe, regardless whether SPOT-4 is in direct line of sight of a ground station or not. The news index includes the following material: 3-D graphics and live action recordings of relaying data directly between spacecraft; Live action recordings of SILEX and SPOT-4 development; Live action recordings of ARTEMIS development; 3-D graphics and live action recordings on the use of laser-optical links between satellites of a multimedia constellation like Skybridge or Telesi. These constellations are a prime candidate for using second generation optical terminals of the SILEX type that are currently being breadboarded.</plain>

**Keywords** TELECOMMUNICATIONS,REMOTE SENSING,ARTEMIS,

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000656

**Title:** SILEX on board SPOT-4 News Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language** M/E only

**Production Date** 03/09/1998

**Length:** 7

**Comments** <plain>This news index includes material assembled on the occasion of the SPOT-4 launch on Ariane V106, in March 1998. France's SPOT-4 satellite carries the ESA-developed SILEX terminal for the direct laser-optical communications between satellites in space. SILEX will permit the relaying of remote sensing data from SPOT-4, via Artemis, to Europe, regardless whether SPOT-4 is in direct line of sight of a ground station or not. The news index includes the following material: 3-D graphics and live action recordings of relaying data directly between spacecraft; Live action recordings of SILEX and SPOT-4 development; Live action recordings of ARTEMIS development; 3-D graphics and live action recordings on the use of laser-optical links between satellites of a multimedia constellation like Skybridge or Telesi. These constellations are a prime candidate for using second generation optical terminals of the SILEX type that are currently being breadboarded.</plain>

**Keywords** TELECOMMUNICATIONS,REMOTE SENSING,ARTEMIS,

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000657

**Title:** ERS: Watching Our Atmosphere

**Type:** Video Index

**Category:** index,A and B roll

**Language** English

**Production Date** 03/11/1997

**Length:** 31

**Comments** <plain>Part three of the series 'ERS-Watching The World.' ESA's European Remote Sensing satellites ERS-1 and ERS-2 were launched in 1991 and 1995 respectively. In addition to providing scientific data, these satellites now support operational and commercial applications of Earth observation worldwide. This five-part series gives an overview of the structure, use and capabilities of the ERS satellites. This video gives an overview of the abilities of the ERS-2 GOME [Global Ozone Measuring Experiment] instrument, and explains the significance of monitoring changes in ozone concentration within our atmosphere.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000657

**Title:** ERS: Watching Our Atmosphere

**Type:** Video Index

**Category:** index,A and B roll

**Language:** English

**Production Date:** 03/11/1997

**Length:** 31

**Comments:** <plain>Part three of the series 'ERS-Watching The World.'  
ESA's European Remote Sensing satellites ERS-1 and ERS-2 were launched in 1991 and 1995 respectively. In addition to providing scientific data, these satellites now support operational and commercial applications of Earth observation worldwide. This five-part series gives an overview of the structure, use and capabilities of the ERS satellites. This video gives an overview of the abilities of the ERS-2 GOME [Global Ozone Measuring Experiment] instrument, and explains the significance of monitoring changes in ozone concentration within our atmosphere.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000658

**Title:** STS-51F Mission Highlights

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 08/01/1985

**Length:** 22

**Comments:** <plain>The STS-51F Challenger flight - a solar physics Spacelab mission - was launched on July 29th 1985. This video contains the following mission footage: opening of payload bay doors; various solar astronomy experimentation taking blood, centrifuge; astronaut with camera and headphones, solar astronomy experiment, view of moon w/ zoom; two bald astronauts fight over a comb; astronauts hop onto each other's feet and move around shuttle; astronaut looks at long list of results; satellite deployment, astronaut with headset reads results from book; sleeping astronauts [pretending to be] woken by shuttle motion; view of Solspec as sun rises, view of rising sun; astronauts look at results sheet and monitors; Solspec instrument is raised; astronaut prepares food; pen and magnetic rod spin in microgravity; astronaut with paper plane; floating astronaut makes 360 degree turn; astronauts 'jump' up and down; astronaut puts his trousers; astronaut shaves; looking at results list; astronaut in flight deck; astronaut demonstrates video camera; retrieval of satellite; astronauts in flight deck for re-entry.</plain>

**Keywords:** SPACELAB,SPACE SCIENCE,SHUTTLE MISSIONS,NASA

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000659

**Title:** Seven Days Between The Sky and The Earth

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French and English

**Production Date:** 00/00/00

**Length:** 14

**Comments:** <plain>Coverage of the June 1985 NASA/CNES Discovery mission, which involved French astronaut Patrick Baudry. Shots as follows: various earthviews; crew members on flight deck; various shots astronauts in microgravity playing with objects etc; astronauts working - looking at results, screwing in bolts, making observations; Baudry takes physiological readings from himself; view of tracking laser; astronaut exercises on treadmill; deployment of three telecommunications satellites, including Arabsat and Telstar deployment of astronomical satellite Spartan, using robotic arm; satellites in-orbit with Earth in b/g; Baudry performs physiological experiments, including oculography; food is rehydrated and warmed; retrieval of satellite; Baudry uses space echograph; views of the earth.</plain>

**Keywords:** SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000661

**Title:** Spacelab Candidates

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>Telicined material which shows component integration of the Spacelab module at Aeritalia, interviewing and physiological/psychological testing of Spacelab candidates [including Claude Nicollier and Ulf Merbold], parabolic flight footage from cockpit of plane.</plain>

**Keywords:** SPACELAB,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000661

**Title:** Spacelab Candidates

**Type:** Edited Video

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 8

**Comments** <plain>Telicined material which shows component integrati  
of the Spacelab module at Aeritalia, interviewing and  
physiological/psychological testing of Spacelab candidates  
[including Claude Nicollier and Ulf Merbold], parabolic flight  
footage from cockpit of plane.</plain>

**Keywords** SPACELAB,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000662

**Title:** STS-2 Saga/ Spacelab, Laboratory Of Tomorrow

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 8

**Comments** <plain>STS-2: THE SPACE SHUTTLE SAGA: this video  
covers the pioneering orbital flight of the space shuttle  
Columbia. Includes: various launch footage, in-flight footage  
of the Canadian arm, shuttle landing, view of ground, post-  
flight speech from pilots.[out 00:08:22:00] [in 00:08:39:00]  
SPACELAB - LABORATORY OF TOMORROW: A  
documentary which covers the future Space Shuttle  
programme. Including: mock launch and flight footage;  
Marshall Space Flight Centre; graphics to show component  
and integration of Spacelab module; model of preparation o  
Spacelab experiments and rack installation; testing of lab  
equipment [furnaces, microscopes, centrifuges, incubators  
lasers, electron beam guns, photographic equipment;  
physiological testing of potential astronaut on treadmill,  
training of potential astronauts on various equipment; model  
of Spacelab to show pallets with mounted telescopes;  
scientists with restrained monkey used in microgravity  
research; Skylab in-flight experimentation footage; melting  
and solidification of metals; views of the Earth;  
pharmaceutical research; atsronomical views; men 'work' in  
mock Spacelab module. </plain>

**Keywords** SPACELAB,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000662

**Title:** STS-2 Saga/ Spacelab, Laboratory Of Tomorrow

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 8

**Comments** <plain>STS-2: THE SPACE SHUTTLE SAGA: this video covers the pioneering orbital flight of the space shuttle Columbia. Includes: various launch footage, in-flight footage of the Canadian arm, shuttle landing, view of ground, post-flight speech from pilots.[out 00:08:22:00] [in 00:08:39:00] SPACELAB - LABORATORY OF TOMORROW: A documentary which covers the future Space Shuttle programme. Including: mock launch and flight footage; Marshall Space Flight Centre; graphics to show component and integration of Spacelab module; model of preparation o Spacelab experiments and rack installation; testing of lab equipment [furnaces, microscopes, centrifuges, incubators lasers, electron beam guns, photographic equipment; physiological testing of potential astronaut on treadmill, training of potential astronauts on various equipment; model of Spacelab to show pallets with mounted telescopes; scientists with restrained monkey used in microgravity research; Skylab in-flight experimentation footage; melting and solidification of metals; views of the Earth; pharmaceutical research; astronomical views; men 'work' in mock Spacelab module. </plain>

**Keywords** SPACELAB,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000663

**Title:** Spacelab 1 Factsheets / STS-3 OSS-1

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>SPACELAB 1 FACTSHEETS: -payload specialists: footage includes trainee Spacelab scientists, including Ockels and Merbold; Nicollier in training module; explanation of astronaut training procedure; crew trained on different experimental apparatus; systems integration of Spacelab at KSC; simulation of downlinking data from Spacelab; crew train on physiological experiments in module [out 00:08:02:00] - [in 00:08:40:00] mission management: pre-flight Spacelab experiments are set up and calibrated; NAS mission management board meeting; scientists examine paperwork; NASA IWG [Investigator Working Group] board meeting; screen output of Spacelab design graphics; various experiment selection footage [lectures, meetings etc.]; Spacelab experimental equipment at Kennedy Space Centre [KSC]; exterior and interior views of Spacelab module at KS NASA Payload Operations Control Centre [POCC], mission management team at Johnson Space Centre at Houston receive experiment information; shuttle touches down [out 00:15:15:00] - [in 00:15:51:00] experiments: crew [including Merbold and Ockels] practise experiments in Spacelab module; various astronomical images; Northern Lights, solar flares; shuttle in orbit; Earthviews; pre-mission testing of various experiments - oculography, plant growth, fluid rotat crystals, lubricant spreading wheel, biological analysis [centrifuge], model of future space station [out 00:22:52:00] [in 00:23:10:00] OSS-1 payload [precursor to Spacelab] installation at KSC [mute]. </plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000663

**Title:** Spacelab 1 Factsheets / STS-3 OSS-1

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>SPACELAB 1 FACTSHEETS: -payload specialists: footage includes trainee Spacelab scientists, including Ockels and Merbold; Nicollier in training module; explanation of astronaut training procedure; crew trained on different experimental apparatus; systems integration of Spacelab at KSC; simulation of downlinking data from Spacelab; crew train on physiological experiments in module [out 00:08:02:00] - [in 00:08:40:00] mission management: pre-flight Spacelab experiments are set up and calibrated; NAS mission management board meeting; scientists examine paperwork; NASA IWG [Investigator Working Group] board meeting; screen output of Spacelab design graphics; various experiment selection footage [lectures, meetings etc.]; Spacelab experimental equipment at Kennedy Space Centre [KSC]; exterior and interior views of Spacelab module at KS NASA Payload Operations Control Centre [POCC], mission management team at Johnson Space Centre at Houston receive experiment information; shuttle touches down [out 00:15:15:00] - [in 00:15:51:00] experiments: crew [including Merbold and Ockels] practise experiments in Spacelab module; various astronomical images; Northern Lights, solar flares; shuttle in orbit; Earthviews; pre-mission testing of various experiments - oculography, plant growth, fluid rotat crystals, lubricant spreading wheel, biological analysis [centrifuge], model of future space station [out 00:22:52:00] [in 00:23:10:00] OSS-1 payload [precursor to Spacelab] installation at KSC [mute]. </plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000664

**Title:** Spacelab Animation

**Type:** Edited Video

**Category:** documentary,general public

**Language** French and English

**Production Date** 00/00/00

**Length:** 16

**Comments:** <plain>SPACELAB ANIMATION - commissioned by ESA to demonstrate the joint ESA/NASA Spacelab project, these graphics show the following: deployment of various satellites, signing of spacelab agreement [ESRO/NASA 1973], module development, module integration, installation of equipment, shuttle launch, orbit entry and activation of Spacelab; return Earth, disassembly [out 00:10:54:00] [in 00:11:19:00] - FRENCH VERSION OF THE ABOVE</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000664

**Title:** Spacelab Animation

**Type:** Edited Video

**Category:** documentary,general public

**Language** French and English

**Production Date** 00/00/00

**Length:** 16

**Comments:** <plain>SPACELAB ANIMATION - commissioned by ESA to demonstrate the joint ESA/NASA Spacelab project, these graphics show the following: deployment of various satellites, signing of spacelab agreement [ESRO/NASA 1973], module development, module integration, installation of equipment, shuttle launch, orbit entry and activation of Spacelab; return Earth, disassembly [out 00:10:54:00] [in 00:11:19:00] - FRENCH VERSION OF THE ABOVE</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000665

**Title:** Ariane 4: Vol. 105 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The Ariane 4 Vol. 105 rocket, which carried the Brasilsat B3 and Inmarsat 3F5 satellites into orbit, was launched on February 4th 1998. Footage as follows: unloading of satellite from plane; assembly of various satellite components, systems testing; satellite lowered onto rocket base; payload bay doors closed around satellite; satellite sp testing; launcher components raised upright in integration building; fitting of vehicle equipment bay; rollout of launcher; closure of cryogenic arms; final assembly building rolled away; arrival by plane of satellite, fuelling; lowered onto rocket base; integration of satellite into payload bay, application of stickers; rollout of payload bay, hoisted to top of Ariane 4; final assembly building rolled away, countdown and night launch; various technical images of launch and flight [including booster separation]. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000666

**Title:** Ariane 4: Vol. 105 Technical Films 1

**Type:** Video Index

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 02/04/1998

**Length:** 19

**Comments:** <plain>The Ariane 4 Vol. 105 rocket, which carried the Brasilsat B3 and Inmarsat 3F5 satellites into orbit, was launched on February 4th 1998. Technical footage as follows: attitude generale lanceur, 200 i/s; poursuite manuelle lanceur, 90 i/s; poursuites manuelle lanceur, 90 i/s; poursuite manuelle lanceur, 75 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000667

**Title:** Ariane 4: Vol. 105 Technical Films 2

**Type:** Video Index

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 29

**Comments:** <plain>The Ariane 4 Vol. 105 rocket, which carried the Brasilsat B3 and Inmarsat 3F5 satellites into orbit, was launched on February 4th 1998. Technical footage as follows: ouverture bras cryo, 125 i/s; plaque a clapet LO2, 250 i/s; plaque a clapet LH2, 250 i/s; integrite lanceur, 400 i/s; degagement PAL Nord/Ouest, 300 i/s; degagement PAL3 Sud/Est, 300 i/s; ensemble lanceur, 200 i/s; ombilicaux superiors, 100 i/s; ombilicaux centraux, 100 i/s; retombees des ombilicaux, 100 i/s; ensemble des ombilicaux, 100 i/s; allumage L220, 1000 i/s; allumage PAP, 1000 i/s; attitude 0 - 100m, 100 i/s; attitude 0 - 100m, 100 i/s; attitude 0 - 100m, 100 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000668

**Title:** Ariane 4: Vol. 106 Technical Films 1

**Type:** Video Index

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Ariane 4 Vol. 106 rocket, which carried the Aria 42P and Hot Bird 4 satellites into orbit, was launched on February 27th 1998. Footage as follows: ouverture bras cr 125 i/s; plaque a clapets LO2, 250 i/s; plaque a clapets LH2 250 i/s; integrite lanceur, 400 i/s; ensemble lanceur, 200 i/s; ombilicaux superiors, 100 i/s; ombilicaux centraux, 100 i/s; ensemble des ombilicaux, 100 i/s; retombees des ombilicaux: 100 i/s; comportement lanceur, 1000 i/s; allumage L220, 1000 i/s; comportement lanceur, 1000 i/s; comportement lanceur, 500 i/s; attitude 0 - 100m, 200 i/s; </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000669

**Title:** Ariane 4: Vol. 106 Technical Films 2

**Type:** Video Index

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>The Ariane 4 Vol. 105 rocket, which carried the Aria 42P and Hot Bird 4 satellites into orbit, was launched on February 4th 1998. Footage as follows: attitude 0 - 100m, 2 i/s; attitude 0 - 100m, 200 i/s; poursuite manuelle lanceur, 90 i/s; poursuite manuelle lanceur, 90 i/s; poursuite manuelle lanceur, 75 i/s; poursuite lanceur, 25 i/s; poursuite lanceur, i/s [timecode jump]</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000670

**Title:** Spacelab News Index 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** M/E only

**Production Date:** 03/30/1998

**Length:** 47

**Comments:** <plain>Made to mark the 25th year since the start of the joint European/ NASA Spacelab project, this video index contains stock shots illustrating the history, construction and use of the pressurised module. The video is accompanied by a comprehensive script.</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000670

**Title:** Spacelab News Index 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language** M/E only

**Production Date** 03/30/1998

**Length:** 47

**Comments** <plain>Made to mark the 25th year since the start of the joint European/ NASA Spacelab project, this video index contains stock shots illustrating the history, construction and use of the pressurised module. The video is accompanied by a comprehensive script.</plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000671

**Title:** Neurolab News Index 1998

**Type:** Video Index

**Category:** index,A and B roll

**Language** English

**Production Date** 03/30/1998

**Length:** 23

**Comments** <plain>Due to be launched on April 14th, 1998 [N.B this date was postponed] the Neurolab mission will mark 25 years of flight for the Spacelab module. American astronauts will perform neuromuscular and vestibular research experiments coinciding with the 'Decade of the Brain'. This index gives an overview of previous in-flight biomedical experimentation aboard Spacelab, and emphasises the three-tier development which has led to ESA's off-axis rotating chair, used for vestibular research. A comprehensive script accompanies this cassette.</plain>

**Keywords** SPACELAB,SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000671

**Title:** Neurolab News Index 1998

**Type:** Video Index

**Category:** index,A and B roll

**Language** English

**Production Date** 03/30/1998

**Length:** 23

**Comments:** <plain>Due to be launched on April 14th, 1998 [N.B this date was postponed] the Neurolab mission will mark 25 years of flight for the Spacelab module. American astronauts will perform neuromuscular and vestibular research experiments coinciding with the 'Decade of the Brain'. This index gives an overview of previous in-flight biomedical experimentation aboard Spacelab, and emphasises the three-tier development which has led to ESA's off-axis rotating chair, used for vestibular research. A comprehensive script accompanies this cassette.</plain>

**Keywords** SPACELAB

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000672

**Title:** Neurolab live event highlights

**Type:** Edited Video

**Category:** miscellaneous

**Language**

**Production Date** 04/16/1998

**Length:** 65

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000672

**Title:** Neurolab live event highlights

**Type:** Edited Video

**Category:**

**Language**

**Production Date** 04/16/1998

**Length:** 65

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000674

**Title:** NASA ISS B-Roll

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 02/01/1998

**Length:** 15

**Comments:** <plain>A compilation of animations and footage which depict the current stage of development of the ISS [International Space Station] project. </plain>

**Keywords:** SPACE STATIONS,NASA GENERAL,INTERNATIONAL SP

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000674

**Title:** NASA ISS B-Roll

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 02/01/1998

**Length:** 15

**Comments:** <plain>A compilation of animations and footage which depict the current stage of development of the ISS [International Space Station] project. </plain>

**Keywords:** SPACE STATIONS,NASA GENERAL,INTERNATIONAL SP

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000677

**Title:** ISO: Final Results VNR '98

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 04/07/1998

**Length:** 13

**Comments:** <plain> Launched on November 17th 1995, ESA's Infrared Space Observatory [ISO] has uncovered stars, galaxies and black holes that astronomers have been unable to see before. It has also revealed water vapour, primarily around Titan - this will have implications for ESA's Huygens mission to this moon. ISO has also given a clearer picture of the formation of celestial bodies. Although the ISO project was initially projected to operate for 18 months - thus ending in May 1997 - it has continued for almost a year longer. Activity concerning ISO will continue at ESA's Villafranca ground station in Spain until the year 2001, long after completion of the observational phase of the mission. The index contains relevant stock material for this story. </plain>

**Keywords:** SPACE SCIENCE,ISO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000680

**Title:** STS-42 Post Flight Presentation

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1992

**Length:** 21

**Comments:** <plain>The NASA space shuttle Discovery was launched on Jan 22nd, 1992, for the 8-day International Microgravity Laboratory 1 [IML-1] mission. ESA astronaut Ulf Merbold was among the crew members; the mission made use of a Spacelab module. The video covers the introduction of the various crew members at the mission post-flight conference after which there is an annotated showing of a 16mm film covering highlights of the mission. Useful clips as follows: crew members suit-up, leave operations and checkout building; launch, falling booster tank; crew members enter Spacelab module; Ulf Merbold in vestibular sled experiment, chair used in various experiments; use of the Biorack - good view of the installation, including rotating centrifuge; specimens put into photobox; bicycle ergometer, treadmill; Leslie freezer, used for biological specimens; various earthviews; nice shot of astronaut in tunnel; closing of hatch re-entry, plasma flashes; shuttle lands at Edwards Air Force Base. </plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,NASA GENERAL,MANN

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000680

**Title:** STS-42 Post Flight Presentation/Apollo 11

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1992

**Length:** 21

**Comments:** <plain>The NASA space shuttle Discovery was launched on Jan 22nd, 1992, for the 8-day International Microgravity Laboratory 1 [IML-1] mission. ESA astronaut Ulf Merbold was among the crew members; the mission made use of a Spacelab module. The video covers the introduction of the various crew members at the mission post-flight conference after which there is an annotated showing of a 16mm film covering highlights of the mission. Useful clips as follows: crew members suit-up, leave operations and checkout building; launch, falling booster tank; crew members enter Spacelab module; Ulf Merbold in vestibular sled experiment, chair used in various experiments; use of the Biorack - good view of the installation, including rotating centrifuge; specimens put into photobox; bicycle ergometer, treadmill; Leslie freezer, used for biological specimens; various earthviews; nice shot of astronaut in tunnel; closing of hatch re-entry, plasma flashes; shuttle lands at Edwards Air Force Base. N.B. THIS COPY ALSO CONTAINS THE NASA VIDEO 'APOLLO 11: FOR ALL MANKIND'...</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,NASA GENERAL,MANN

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000682

**Title:** Ariane 4: Vol. 104 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 01/01/1998

**Length:** 14

**Comments:** <plain>The Ariane 4 Vol. 104 launch carried the Intelsat 804 satellite into orbit on December 21st, 1997. This video shows highlights from the campaign, and is arranged as follows: arrival, by plane, of satellite; satellite unpacked from transit container; components manipulated using gas balloon; satellite encased in container and towed; arrival by freight ship of launcher components; launcher raised upright; integration of various stages, vehicle equipment bay; rollout launcher; cryogenic arms closed; satellite mounted onto its engine, satellite encased in payload bay; application of logo satellite towed towards rocket; payload bay hoisted to top rocket; final assembly building rolled away; control room, countdown; night launch with slow-motion flare from boost separation; tracking graph superimposed over control room footage, applause etc. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000683

**Title:** Alenia Artemis

**Type:** Edited Video

**Category:** miscellaneous

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. Produced by Artemis contractor Alenia Aerospazio, this video contains the following footage: animation, cleanroom footage (lengthy, shows various components), animation to show flight of Ariane 4 over the globe, animation to show satellite activation (opening of solar arrays, dishes) with Earth in background. </plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000684

**Title:** Space Station Signing '88

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/16/1998

**Length:** 50

**Comments:** <plain>Coverage of the September 29th 1988 Space Station agreement signing ceremony at Washington. Various agreements are signed by European, Japanese, Canadian and American representatives.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000686

**Title:** ISS: STS-88 Node Footage

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/04/1997

**Length:** 48

**Comments:** <plain>STS-88 will be the first NASA Space Shuttle [Endeavour] assembly flight for the International Space Station. This film shows various cleanroom footage of the Node 1 component, which will be installed on this mission.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000687

**Title:** Spacelab Module Structure

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 43

**Comments:** <plain>Recordings of construction of the Spacelab 1 modul  
taken at Aeritalia in Torino. Transferred from 8mm stock; filr  
was shot by ESA resident engineer Dieter Lammers betwe  
1975 and 1977.</plain>

**Keywords:** SPACELAB

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000687

**Title:** Spacelab Module Structure

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 43

**Comments:** <plain>Recordings of construction of the Spacelab 1 modul  
taken at Aeritalia in Torino. Transferred from 8mm stock; filr  
was shot by ESA resident engineer Dieter Lammers betwe  
1975 and 1977.</plain>

**Keywords:** SPACELAB

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000688

**Title:** Shuttle Operations

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 08/01/1995

**Length:** 25

**Comments:** <plain>Footage of pre-flight preparations for the Space Shuttle Discovery, recorded at Kennedy Space Centre in 1995.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000690

**Title:** John Glenn News Briefing

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/21/1998

**Length:** 36

**Comments:** <plain>Glenn piloted the Mercury-Atlas 6 "Friendship 7" spacecraft on the first manned orbital mission of the United States, on February 20th 1962. Partly to perform experimer connected with microgravity and the ageing process, he wi fly as a payload specialist on the NASA STS-95 mission. Recording of the 21st January 1998 press conference with US Senator John Glenn.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000691

**Title:** Spacelab Integration And Test

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 58

**Comments:** <plain>Transferred from 8mm stock, this film was shot by ESA resident engineer Dieter Lammers at MBB-ERNO [precursor of DASA] in Bremen.. It contains material which illustrates the assembly of racks for the first Spacelab mission [Spacelab 1, launched November 28th 1983], their integration into the module, and testing of the various systems.</plain>

**Keywords:** SPACELAB

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000691

**Title:** Spacelab Integration And Test

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 58

**Comments:** <plain>Transferred from 8mm stock, this film was shot by ESA resident engineer Dieter Lammers at MBB-ERNO [precursor of DASA] in Bremen.. It contains material which illustrates the assembly of racks for the first Spacelab mission [Spacelab 1, launched November 28th 1983], their integration into the module, and testing of the various systems.</plain>

**Keywords:** SPACELAB

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000692

**Title:** SOHO results VNR April 98

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** French and English

**Production Date:** 04/28/1998

**Length:** 14

**Comments:** <plain>ESA's SOHO (SOlar and Heliospherical Observatory astronomical satellite was launched on December 2nd, 1990. This video gives a short account of the purpose of the SOHO mission, along with a summary of the findings so far. Images recorded by the satellite are utilised, along with computer graphics and interviews. Includes footage of hurricanes on the Sun.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000693

**Title:** Int. Space Station - The ESA Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** ME only

**Production Date:** 05/14/1998

**Length:** 41

**Comments:** <plain>A general ESA Index covering the International Space Station, the first component of which is due to be launched this year. Includes overview of construction, historical background and overall structure of the Station, with particular emphasis on Europe's contribution.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION,HI

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000693

**Title:** Int. Space Station - The ESA Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language** M/E only

**Production Date** 05/14/1998

**Length:** 41

**Comments:** <plain>A general ESA Index covering the International Space Station, the first component of which is due to be launched this year. Includes overview of construction, historical background and overall structure of the Station, with particular emphasis on Europe's contribution.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION,HI

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000694

**Title:** ESA: Putting Europe Into Space - Espanol

**Type:** Edited Video

**Category:** documentary,general public

**Language** Spanish

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Francais

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Deutsch

**Type:** Edited Video

**Category:** documentary,general public

**Language** German

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Italiano

**Type:** Edited Video

**Category:** documentary,general public

**Language** Italian

**Production Date** 05/13/1998

**Length:** 8

**Comments** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Nederland

**Type:** Edited Video

**Category:** documentary,general public

**Language** Dutch

**Production Date** 05/13/1998

**Length:** 8

**Comments** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Deutsch

**Type:** Edited Video

**Category:** documentary,general public

**Language** German

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 05/13/1998

**Length** 8

**Comments** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Espanol

**Type:** Edited Video

**Category:** documentary,general public

**Language** Spanish

**Production Date** 05/13/1998

**Length** 8

**Comments** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Francais

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 05/13/1998

**Length** 8

**Comments** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Italiano

**Type:** Edited Video

**Category:** documentary,general public

**Language** Italian

**Production Date** 05/13/1998

**Length** 8

**Comments** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Nederland

**Type:** Edited Video

**Category:** documentary,general public

**Language** Dutch

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - All langs

**Type:** Edited Video

**Category:** documentary,general public

**Language** Various

**Production Date** 05/13/1998

**Length:** 0

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Portugese

**Type:** Edited Video

**Category:** documentary,general public

**Language** Portugese

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000694

**Title:** ESA: Putting Europe Into Space - Portugese

**Type:** Edited Video

**Category:** documentary,general public

**Language** Portugese

**Production Date** 05/13/1998

**Length:** 8

**Comments:** <plain>An overview of ESA's activities, designed for general presentation. Topics covered include: the Ariane programme; ESA conference at delegate level; early satellite construction; Envisat; ISO; Giotto; Meteosat; ERS; digital television satellites; telecommunications; Spacelab; Mir; SOHO; Ulysses; ESA's various establishments; XMM; Artemis; the International Space Station. The images contained within are all available elsewhere in ESA's video archive, mainly in the ESA Image Bank 1998 [production no. 000598].</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000696

**Title:** Science VNRs Apr/May 1998 Compil

**Type:** Edited Video

**Category:**

**Language**

**Production Date** 05/01/1998

**Length:** 6

**Comments** <plain>Compilation of three ESA VNRs: XMM - the most powerful X-ray telescope in the world SOHO observes tornadoes on the Sun's surface ISO finds water vapour in Titan's atmosphere</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000698

**Title:** ERS - Watching the Land

**Type:** Edited Video

**Category:** index,A and B roll

**Language** English

**Production Date** 01/06/1998

**Length:** 31

**Comments** <plain>Part one of the series 'ERS-Watching The World.' ESA's European Remote Sensing satellites ERS-1 and ERS-2 were launched in 1991 and 1995 respectively. In addition to providing scientific data, these satellites now support operational and commercial applications of Earth observation worldwide. This five-part series gives an overview of the structure, use and capabilities of the ERS satellites. 'Watching The Land' describes how ERS satellites can be used in observing land use - forestry and agriculture for example - thus helping towards efficient resource management.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000698

**Title:** ERS - Watching the Land

**Type:** Edited Video

**Category:** index,A and B roll

**Language:** English

**Production Date:** 01/06/1998

**Length:** 31

**Comments:** <plain>Part one of the series 'ERS-Watching The World.'  
ESA's European Remote Sensing satellites ERS-1 and ERS-2 were launched in 1991 and 1995 respectively. In addition to providing scientific data, these satellites now support operational and commercial applications of Earth observation worldwide. This five-part series gives an overview of the structure, use and capabilities of the ERS satellites. 'Watching The Land' describes how ERS satellites can be used in observing land use - forestry and agriculture for example - thus helping towards efficient resource management.

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000701

**Title:** Aurorae borealis

**Type:** Edited Video

**Category:** documentary,technical

**Language:** French

**Production Date:** 01/01/1993

**Length:** 12

**Comments:** <plain>A documentary on the origins of aurorae borealis and current research into this phenomenon, including ESA's planned Cluster mission of four satellites. The programme features location recordings of Spitzbergen, mainly of polar landscapes and small settlements but also of radar antennae to track aurorae. There are also interviews with ESA's Science Director, Mr Roger Bonnet. The aurora recordings were provided by the Finnish Meteorological Institute and also from Finland. The programme used some general ESA material (animation, Ariane launch etc.)</plain>

**Keywords:** SPACE SCIENCE,CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000702

**Title:** Europe Does It Well - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 06/01/1998

**Length** 11

**Comments** <plain>A general video covering ESA's achievements in the Space Science sector.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000702

**Title:** Europe Does It Well - Espanol

**Type:** Edited Video

**Category:** documentary,general public

**Language** Spanish

**Production Date** 06/01/1998

**Length** 11

**Comments** <plain>A general video covering ESA's achievements in the Space Science sector.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000702

**Title:** Europe Does It Well - Francais

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 06/01/1998

**Length** 11

**Comments** <plain>A general video covering ESA's achievements in the Space Science sector.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000702

**Title:** Europe Does It Well - Allemagne

**Type:** Edited Video

**Category:** documentary,general public

**Language** German

**Production Date** 06/01/1998

**Length:** 11

**Comments:** <plain>A general video covering ESA's achievements in the Space Science sector.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000703

**Title:** Claude Nicollier Index 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 12/06/1998

**Length:** 14

**Comments:** <plain>A summary of the spaceflight activities of the Swiss ESA astronaut Claude Nicollier. Born in Vevey, in September 1944, Claude Nicollier received a bachelor of science ("Licence") in Physics from the University of Lausanne in 1970 and a master of science degree in Astrophysics from the University of Geneva in 1975. He also graduated as a Swiss Air Force pilot in 1966, as airline pilot in 1974, and as Test Pilot in 1988. From 1970 to 1973, Nicollier worked as a graduate scientist with the Institute of Astronomy at Lausanne University and at the Geneva Observatory. He then joined the Swiss Air Transport School in Zurich and was assigned as DC-9 pilot for Swissair, concurrently participating part-time in research activities of the Geneva Observatory. At the end of 1976 he accepted a Fellowship at the European Space Agency's (ESA) Space Science Department at Noordwijk, The Netherlands, where he worked as a research scientist in various airborne infrared astronomy programs. In July 1978 he was selected by ESA as a member of the first group of European astronauts. The under agreement between ESA and NASA he joined the NASA astronaut candidates selected in May 1980 for astronaut training as mission specialist. Claude Nicollier was a mission specialist on STS-46 (July 31-August 8, 1992), during which crew members deployed ESA's retrievable science platform (EURECA), and conducted the first Tethered Satellite System (TSS) test flight. Space shuttle Atlantis and her crew lifted-off and landed at the Kennedy Space Center, Florida, after completing 126 orbits of the Earth. He then served aboard mission STS-61 (1-13 December, 1993) where he flew as a mission specialist crew member. Claude Nicollier was selected in January 1995 for his third flight as mission specialist on mission STS-75. Space shuttle Columbia was launched on 22 February 1996 and landed in KSC on 9 March 1996. This 15-day mission featured the second deployment of the Tethered Satellite System (TSS) which unexpectedly broke after reaching a distance of 19.5 kilometres from the shuttle. A veteran of three spaceflights, Claude Nicollier has logged more than 792 hours in space. Since July 1996, Claude Nicollier is lead of the Astronaut Office Robotics Section for the Shuttle and the International Space Station at NASA/JSC. Claude Nicollier will be aboard the US Space Shuttle Columbia when it takes off from Cape Canaveral in May 2000, on flight STS-104, for the third servicing mission to the Hubble Space Telescope.

</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000703

**Title:** Claude Nicollier Index 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 12/06/1998

**Length:** 14

**Comments:** <plain>A summary of the spaceflight activities of the Swiss ESA astronaut Claude Nicollier. Born in Vevey, in September 1944, Claude Nicollier received a bachelor of science ("Licence") in Physics from the University of Lausanne in 1970 and a master of science degree in Astrophysics from the University of Geneva in 1975. He also graduated as a Swiss Air Force pilot in 1966, as airline pilot in 1974, and as Test Pilot in 1988. From 1970 to 1973, Nicollier worked as a graduate scientist with the Institute of Astronomy at Lausanne University and at the Geneva Observatory. He then joined the Swiss Air Transport School in Zurich and was assigned as DC-9 pilot for Swissair, concurrently participating part-time in research activities of the Geneva Observatory. At the end of 1976 he accepted a Fellowship at the European Space Agency's (ESA) Space Science Department at Noordwijk, The Netherlands, where he worked as a research scientist in various airborne infrared astronomy programs. In July 1978 he was selected by ESA as a member of the first group of European astronauts. The under agreement between ESA and NASA he joined the NASA astronaut candidates selected in May 1980 for astronaut training as mission specialist. Claude Nicollier was a mission specialist on STS-46 (July 31-August 8, 1992), during which crew members deployed ESA's retrievable science platform (EURECA), and conducted the first Tethered Satellite System (TSS) test flight. Space shuttle Atlantis and her crew lifted-off and landed at the Kennedy Space Center, Florida, after completing 126 orbits of the Earth. He then served aboard mission STS-61 (1-13 December, 1993) where he flew as a mission specialist crew member. Claude Nicollier was selected in January 1995 for his third flight as mission specialist on mission STS-75. Space shuttle Columbia was launched on 22 February 1996 and landed in KSC on 9 March 1996. This 15-day mission featured the second deployment of the Tethered Satellite System (TSS) which unexpectedly broke after reaching a distance of 19.5 kilometres from the shuttle. A veteran of three spaceflights, Claude Nicollier has logged more than 792 hours in space. Since July 1996, Claude Nicollier is lead of the Astronaut Office Robotics Section for the Shuttle and the International Space Station at NASA/JSC.

</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000705

**Title:** Little LEO messaging system B-roll

**Type:** Edited Video

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 06/19/1998

**Length:** 4

**Comments:** <plain>This B-roll includes footage on the Little LEO messaging system (LLMS) developed under ESA contract I the Belgian company SAIT. This payload was launched 23 June 1998 onboard a Russian host satellite, from the Baikonour Cosmodrome in Kazachstan. The LLMS payload enables to send e-mail messages, using small, inexpensive terminals, from anywhere on the Earth to the satellite, when they are stored and then downlinked either to another terminal, or to a ground station in Spitzbergen, for feeding in the normal e-mail services. Shotlist: Begin 09:59:00:00 Colour bars 09:59:30:00 Black pre-roll 10:00:00:00 copyright claim and authorisation for broadcast use 10:00:08:00 ESA opening titles 10:00:41:00 Title: Little LEO messaging system B-ROLL 10:00:47:00 SAIT/Iris opening titles 10:00:54:20 Roll-out and launch of Zenit launcher, from Baikonour Cosmodrome in Kazachstan 10:01:25:00 3-D graphics of Resurs host satellite, zoom in on ESA-developed LLMS payload 10:01:39:00 3-D graphics of Resurs orbit and LLMS communications/coverage on Earth surface 10:01:48:00 Helicopter recordings of Amazon rainforest where a satellite e-mail service is useful 10:01:58:00 3-D graphics of transportable, inexpensive LLMS satellite terminal and antenna 10:02:08:00 3-D graphics of the collection of e-mail by LLMS 10:02:23:10 Bulk downlink of e-mail to Spitzbergen ground station, 10:02:25:00 Location recordings of Spitzbergen 10:02:31:00 Bulk downlink of e-mail to Spitzbergen ground station and feeding into ground networks 10:02:39:00 Reception of e-mail on Macintosh computer at home 10:02:50:00 Sending of e-mail using an office computer running Windows 95 10:03:14:00 3-D graphics of reception and direct downlink to LLMS terminal: of e-mail 10:03:25:00 3-D graphics of the orbit of LLMS host satellite and global coverage of the system 10:03:40:00 Location recordings of a tents in desert area in Australia where satellite e-mail is useful 10:03:45:00 Location recordings of a ship and a buoy for which a satellite e-mail service is useful 10:04:07:00 end credits 10:04:10:00 end </plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000706

**Title:** B-roll ESA Council meeting 23/23 June 1998

**Type:** Edited Video

**Category:** VNR

**Language** M/E only

**Production Date** 06/23/1998

**Length:** 4

**Comments:** <plain>B-roll VNR produced for TV networks reporting on the 23/24 June ESA Council meeting in Brussels. Images include atmo shots of the celebration of the 25th anniversary of the 1973 Brussels Ministerial Space Conference held in the UGC cinema, with soundbites by UK Minister John Battle and images of the Belgian Science Policy Minister, Yvan Ylief. Atmo shots of the ESA Council meeting with ESA DG Antonio Rodota and ESA Council chairman Hugo Parr. Background recordings on VEGA, Ariane 5, satellite navigation and Earth observation programmes on which the Council meeting made positive decisions. Script available </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000706

**Title:** B-roll ESA Council meeting 23/23 June 1998

**Type:** Edited Video

**Category:** VNR

**Language** M/E only

**Production Date** 06/23/1998

**Length:** 4

**Comments:** <plain>B-roll VNR produced for TV networks reporting on the 23/24 June ESA Council meeting in Brussels. Images include atmo shots of the celebration of the 25th anniversary of the 1973 Brussels Ministerial Space Conference held in the UGC cinema, with soundbites by UK Minister John Battle and images of the Belgian Science Policy Minister, Yvan Ylief. Atmo shots of the ESA Council meeting with ESA DG Antonio Rodota and ESA Council chairman Hugo Parr. Background recordings on VEGA, Ariane 5, satellite navigation and Earth observation programmes on which the Council meeting made positive decisions. Script available </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000707

**Title:** ESA Taking Up New Challenges - Fran?ais

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 06/19/1998

**Length:** 5

**Comments:** <plain>French version of the highly visual video presentation of ESA's success, produced on the occasion of the 25th anniversary of the Brussels Ministerial Space Conference of 1973. Examples of success presented include SOHO results, satellite television and Ariane, with a look at Earth observation and manned spaceflight. Specially composed music and stereo sound track.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000707

**Title:** ESA Taking Up New Challenges

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 06/19/1998

**Length:** 5

**Comments:** <plain>Highly visual video presentation of ESA's success, produced on the occasion of the 25th anniversary of the Brussels Ministerial Space Conference of 1973. Examples of success presented include SOHO results, satellite television and Ariane, with a look at Earth observation and manned spaceflight. Specially composed music and stereo sound track.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000708

**Title:** The History of Space Flight

**Type:** Edited Video

**Category:** documentary,general public

**Language** English and Japanese

**Production Date** 07/01/1998

**Length** 25

**Comments** <plain>Historical presentation of the main manned missions in space, starting with Yuri Gagarin and ending with the Japanese astronauts who have flown so far. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000708

**Title:** The History of Space Flight - subtitled version

**Type:** Edited Video

**Category:** documentary,general public

**Language** English and Japanese

**Production Date** 07/01/1998

**Length** 25

**Comments** <plain>Historical presentation of the main manned missions in space, starting with Yuri Gagarin and ending with the Japanese astronauts who have flown so far. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000708

**Title:** The History of Space Flight - subtitled version

**Type:** Edited Video

**Category:** documentary,general public

**Language** English and Japanese

**Production Date** 07/01/1998

**Length** 25

**Comments** <plain>Historical presentation of the main manned missions in space, starting with Yuri Gagarin and ending with the Japanese astronauts who have flown so far. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000709

**Title:** MSG Video Index May 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 32

**Comments:** <plain>Cleanroom footage [recorded at Aerospatiale in France and ESTEC in the Netherlands] and animations of ESA's Meteosat Second Generation weather satellite, due for launch in the year 2000.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000709

**Title:** MSG Video Index May 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 32

**Comments:** <plain>Cleanroom footage [recorded at Aerospatiale in France and ESTEC in the Netherlands] and animations of ESA's Meteosat Second Generation weather satellite, due for launch in the year 2000.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 0000711

**Title:** STS-95 Post-Landing Egress Training

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 8

**Comments:** <plain>Scheduled to fly in late October 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery ar the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of sciece experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of the HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. The flight crew will incude the Spanish ESA astronaut Pedro Duque, and John Glenn, the US Senator who was the first American in orbit. Includes: hoisi training, line-up in orange suits, entering shuttle simulator.  
</pla

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000711

**Title:** STS-95 Post-Landing Egress Training

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 7

**Comments:** <plain>Scheduled to fly in late October 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery ar the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of sciece experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of the HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. The flight crew will incude the Spanish ESA astronaut Pedro Duque, and John Glenn, the US Senator who was the first American in orbit. Includes: hoisi training, line-up in orange suits, entering shuttle simulator.  
</pla

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000712

**Title:** STS-95 Insertion And De-orbit Preparation Training

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/29/1998

**Length:** 10

**Comments:** <plain>Scheduled to fly in late October 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery ar the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of sciece experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of the HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. The flight crew will incude the Spanish ESA astronaut Pedro Duque, and John Glenn, the US Senator who was the first American in orbit. This tape incorporates footage of the crew participating in insertion a de-orbit preparation training in the Full Fuselage Trainer at Johnson Space Centre, Houston, Texas.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000712

**Title:** STS-95 Insertion And De-orbit Preparation Training

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/29/1998

**Length:** 10

**Comments:** <plain>Scheduled to fly in late October 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery ar the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of sciece experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of the HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. The flight crew will incude the Spanish ESA astronaut Pedro Duque, and John Glenn, the US Senator who was the first American in orbit. This tape incorporates footage of the crew participating in insertion a de-orbit preparation training in the Full Fuselage Trainer at Johnson Space Centre, Houston, Texas.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000713

**Title:** les Observateurs de la Terre

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 05/01/1998

**Length:** 30

**Comments** <plain>A documentary on satellite observation of the Earth and its atmosphere. Includes numerous views of the Earth from space, interviews and processed satellite results. The various uses of Earth observation are described.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000714

**Title:** Espace And Telecommunications

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 01/01/1998

**Length:** 7

**Comments** <plain>A general look at modern telecommunications. Includes cleanroom footage of satellite construction, and exterior of CNES headquarters.</plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000716

**Title:** Sea And Space

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 05/01/1998

**Length:** 3

**Comments:** <plain>A summary of ESA's 'Sea and Space ' internet educational programme. Details of this scheme can be found at the following internet address:  
<http://www.eso.org/seaspace/></plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000718

**Title:** Canadian MSS VNR - Francais

**Type:** Video Index

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 06/12/1998

**Length:** 5

**Comments:** <plain>Canada's contribution to the International Space Station [ISS] will be the Mobile Servicing System [MSS]. For testing purposes, two components of this element were integrated in the second week of June 1998. This took place at Spar Aerospace Ltd., Canada's prime contractor for the MSS, in Brampton, Ontario. Footage is as follows: introduction of the MSS [gvs']; cleanroom footage of the setting-up of the integration of the mobile base with the mobile transporter [featuring CSA astronaut Julie Payette]; interfacing of the two components, rehearsal with CSA astronaut Julie Payette and NASA astronaut Paul William Richards; Julie Payette explains the value of Canada's contribution to the ISS. </plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000718

**Title:** Canadian MSS VNR - English

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/12/1998

**Length:** 5

**Comments:** <plain>Canada's contribution to the International Space Station [ISS] will be the Mobile Servicing System [MSS]. For testing purposes, two components of this element were integrated in the second week of June 1998. This took place at Spar Aerospace Ltd., Canada's prime contractor for the MSS, in Brampton, Ontario. Footage is as follows: introduction of the MSS [gvs']; cleanroom footage of the setting-up of the integration of the mobile base with the motor transporter [featuring CSA astronaut Julie Payette]; interfacing of the two components, rehearsal with CSA astronaut Julie Payette and NASA astronaut Paul William Richards; Julie Payette explains the value of Canada's contribution to the ISS. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000718

**Title:** Canadian MSS VNR - English

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/12/1998

**Length:** 5

**Comments:** <plain>Canada's contribution to the International Space Station [ISS] will be the Mobile Servicing System [MSS]. For testing purposes, two components of this element were integrated in the second week of June 1998. This took place at Spar Aerospace Ltd., Canada's prime contractor for the MSS, in Brampton, Ontario. Footage is as follows: introduction of the MSS [gvs']; cleanroom footage of the setting-up of the integration of the mobile base with the motor transporter [featuring CSA astronaut Julie Payette]; interfacing of the two components, rehearsal with CSA astronaut Julie Payette and NASA astronaut Paul William Richards; Julie Payette explains the value of Canada's contribution to the ISS. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000718

**Title:** Canadian MSS VNR - Francais

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/12/1998

**Length:** 5

**Comments:** <plain>Canada's contribution to the International Space Station [ISS] will be the Mobile Servicing System [MSS]. For testing purposes, two components of this element were integrated in the second week of June 1998. This took place at Spar Aerospace Ltd., Canada's prime contractor for the MSS, in Brampton, Ontario. Footage is as follows: introduction of the MSS [gvs']; cleanroom footage of the setting-up of the integration of the mobile base with the motor transporter [featuring CSA astronaut Julie Payette]; interfacing of the two components, rehearsal with CSA astronaut Julie Payette and NASA astronaut Paul William Richards; Julie Payette explains the value of Canada's contribution to the ISS. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000719

**Title:** Ariane 502 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>The second qualification flight of Europe's Ariane 5 launcher was successfully performed on October 30th, 1998. This video contains footage of the launcher campaign - integration of the various components at Europe's Spaceport in Kourou, French Guyana; arrival and integration of the test satellites payload; launch rehearsal, and the launch itself.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000720

**Title:** CNES Presentation Video 1998

**Type:** Edited Video

**Category:** miscellaneous

**Language** M/E only

**Production Date** 01/01/1998

**Length** 29

**Comments** <plain>A general presentation of the French Space Agency CNES. Divided into chapters, it includes the following footage: Ariane 502 campaign and launch; ESRANGE launching of balloon; parabolic flights; Earth observation satellites [inc. Ariane 4 launch, hurricane and wave footage meteorological observation; MIR mission with CNES astronaut, launch and in-flight experimentation; NASA's Johnson Space Flight Centre [including exterior view], pool training; space science - observation of the Sun; general telecommunications footage.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000721

**Title:** Canada and Europe - 20 Years of Partnership in Space - Fr

**Type:** Edited Video

**Category:** documentary,technical

**Language** French

**Production Date** 07/01/1998

**Length** 9

**Comments** <plain>A video which highlights ESA's relationship with CSA, the Canadian Space Agency. Topics covered include: -the ESA-developed Silex terminal, now flying on the CNES Spot 4 satellite [with Matra Marconi as prime contractor]. This allows a laser connection between satellites to support high speed communications, and was developed in co-operation with the CSA. Much cleanroom footage of the SILEX is included. -the history of Canada's relationship with Europe's space industry -good footage of the MIPAS high precision interferometer -CSA research centre, the David Florida laboratories, where SPAR engineers work on elements of the robot arm which will be used in assembly of the ISS [using techniques perfected in the development of the Canada Arm] -processing of SAR images, using Canada's Radarsat programme -Aerospatiale's co-operation with Canadian firms.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000721

**Title:** Canada and Europe - 20 years of partnership in space - En

**Type:** Edited Video

**Category:** documentary,technical

**Language** English

**Production Date** 07/01/1998

**Length** 9

**Comments** <plain>A video which highlights ESA's relationship with CS, the Canadian Space Agency. Topics covered include: -the ESA-developed Silex terminal, now flying on the CNES Spot 4 satellite [with Matra Marconi as prime contractor]. This allows a laser connection between satellites to support high speed communications, and was developed in co-operation with the CSA. Much cleanroom footage of the SILEX is included. -the history of Canada's relationship with Europe's space industry -good footage of the MIPAS high precision interferometer -CSA research centre, the David Florida laboratories, where SPAR engineers work on elements of the robot arm which will be used in assembly of the ISS [using techniques perfected in the development of the Canada Arm] -processing of SAR images, using Canada's Radarsat programme -Aerospatiale's co-operation with Canadian firms.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000721

**Title:** Canada and Europe - 20 years of partnership in space - Fra

**Type:** Edited Video

**Category:** documentary,technical

**Language:** French

**Production Date:** 07/01/1998

**Length:** 9

**Comments:** <plain>A video which highlights ESA's relationship with CS, the Canadian Space Agency. Topics covered include: -the ESA-developed Silex terminal, now flying on the CNES Spot 4 satellite [with Matra Marconi as prime contractor]. This allows a laser connection between satellites to support high speed communications, and was developed in co-operation with the CSA. Much cleanroom footage of the SILEX is included. -the history of Canada's relationship with Europe's space industry -good footage of the MIPAS high precision interferometer -CSA research centre, the David Florida laboratories, where SPAR engineers work on elements of the robot arm which will be used in assembly of the ISS [using techniques perfected in the development of the Canada Arm] -processing of SAR images, using Canada's Radarsat programme -Aerospatiale's co-operation with Canadian firms.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 0000721

**Title:** Canada and Europe - 20 years of partnership in space - En

**Type:** Edited Video

**Category:** documentary,technical

**Language** English

**Production Date** 07/01/1998

**Length** 9

**Comments** <plain>A video which highlights ESA's relationship with CS, the Canadian Space Agency. Topics covered include: -the ESA-developed Silex terminal, now flying on the CNES Spot 4 satellite [with Matra Marconi as prime contractor]. This allows a laser connection between satellites to support high speed communications, and was developed in co-operation with the CSA. Much cleanroom footage of the SILEX is included. -the history of Canada's relationship with Europe's space industry -good footage of the MIPAS high precision interferometer -CSA research centre, the David Florida laboratories, where SPAR engineers work on elements of the robot arm which will be used in assembly of the ISS [using techniques perfected in the development of the Canada Arm] -processing of SAR images, using Canada's Radarsat programme -Aerospatiale's co-operation with Canadian firms.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000721

**Title:** Canada and Europe - 20 years of partnership in space - En

**Type:** Edited Video

**Category:** documentary,technical

**Language** English

**Production Date** 07/01/1998

**Length** 9

**Comments** <plain>A video which highlights ESA's relationship with CS, the Canadian Space Agency. Topics covered include: -the ESA-developed Silex terminal, now flying on the CNES Spot 4 satellite [with Matra Marconi as prime contractor]. This allows a laser connection between satellites to support high speed communications, and was developed in co-operation with the CSA. Much cleanroom footage of the SILEX is included. -the history of Canada's relationship with Europe's space industry -good footage of the MIPAS high precision interferometer -CSA research centre, the David Florida laboratories, where SPAR engineers work on elements of the robot arm which will be used in assembly of the ISS [using techniques perfected in the development of the Canada Arm] -processing of SAR images, using Canada's Radarsat programme -Aerospatiale's co-operation with Canadian firms.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 0000721

**Title:** Canada and Europe - 20 Years of Partnership in Space - Fr

**Type:** Edited Video

**Category:** documentary,technical

**Language** French

**Production Date** 07/01/1998

**Length** 9

**Comments** <plain>A video which highlights ESA's relationship with CS, the Canadian Space Agency. Topics covered include: -the ESA-developed Silex terminal, now flying on the CNES Spot 4 satellite [with Matra Marconi as prime contractor]. This allows a laser connection between satellites to support high speed communications, and was developed in co-operation with the CSA. Much cleanroom footage of the SILEX is included. -the history of Canada's relationship with Europe's space industry -good footage of the MIPAS high precision interferometer -CSA research centre, the David Florida laboratories, where SPAR engineers work on elements of t robot arm which will be used in assembly of the ISS [using techniques perfected in the development of the Canada Arm] -processing of SAR images, using Canada's Radarsat programme -A erospatiale's co-operation with Canadian firms.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000722

**Title:** Chris Takes To The Sky [English subtitles]

**Type:** Edited Video

**Category:** documentary,general public

**Language** Polish

**Production Date** 01/01/1998

**Length** 19

**Comments** <plain>At an awards ceremony for gifted children, 11-year-Polish schoolboy Christopher Owocki spoke about his ambition to work on Ariane 5 at Kourou. As a consequence, he was invited by ESA to watch the launch of Ariane 104 from French Guyana. This film documents his visit to Europe's Spaceport. With English subtitles.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000722

**Title:** Chris Takes To The Sky [English subtitles]

**Type:** Edited Video

**Category:** documentary,general public

**Language** Polish

**Production Date** 01/01/1998

**Length:** 19

**Comments** <plain>At an awards ceremony for gifted children, 11-year-Polish schoolboy Christopher Owocki spoke about his ambition to work on Ariane 5 at Kourou. As a consequence, he was invited by ESA to watch the launch of Ariane 104 from French Guyana. This film documents his visit to Europe's Spaceport. With English subtitles.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000723

**Title:** Ariane 501: Campaign MDL

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 08/01/1995

**Length:** 7

**Comments** <plain>A short music clip which documents stages of the Ariane 501 launch campaign. Covers: integration of equipment bay, main stage rollout; integration of payload bay rollout.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000724

**Title:** Ariane 502: la Chaine du Success

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 11/01/1997

**Length:** 14

**Comments** <plain>A film which illustrates the contributions of various contractors to the Ariane 502 launcher, culminating in the launch itself [including animations of payload deployment, footage of speltra separation, applause etc.]</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000726

**Title:** Skylab - a scientific harvest

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length:** 36

**Comments** <plain>In July of 1973, NASA's Skylab module was entered by its second crew on its 75th day in orbit. This video incul footage of: launch team, launch and rendezvous, interior views of Skylab, various in-flight experimentation, in-flight conference with ground control, Earth observation images, solar images, flight testing of Astronaut Flight Manoeuvring Unit, experimental animals [spider, minnows], oscillations of fluid balls, astronauts perform gymnastics in zero-G, splashdown of re-entry vehicle, crew disembark.</plain>

**Keywords** SPACE STATIONS,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000727

**Title:** NASA: Second Generation

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>A NASA documentary which looks at the progress made by America's space programme since Dr Robert Goddard pioneered the liquid-fuelled rocket in 1926. Include early 'flying machines', high-altitude balloons, sounding rockets; failure of American rockets; early footage of NASA Goddard Space Flight Centre; Delta Booster Programme; various aeronautical experiments and facilities; various ear satellites; summary of NASA's early programme; John Glenn's historic 1962 flight; Kennedy's announcement, in response to Russia's success in the 'Space Race', that NASA will put a man on the moon within the decade; testing of re-entry capsules; various satellite images; satellite image processing plant; space environment simulators; satellite testing.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000728

**Title:** Space West - the Western Test Range

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 35

**Comments** <plain>A documentary on operations at NASA's Western Test Range. Covers: general views of the station interior, preparation for satellite launch, weather forecast, gvs station, preparation for satellite launch; weather forecast; call to environmental support centre from launch centre to check climatic condition, rocket launch, inside of Western Test Range centre, cleanrooms, telemetry centre, drive through Santa Barbera, various stages in construction of rocket.</plain>

**Keywords** NASA GENERAL,LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000732

**Title:** JSC Brochure Video

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 05/20/1998

**Length:** 9

**Comments** <plain>An overview of NASA's Johnson Space Centre [JSC near Houston, Texas. Composed of short [mainly 2 second] cuts, the video covers the centre's research programmes, objectives and training facilities.</plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000732

**Title:** JSC Brochure Video

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 05/20/1998

**Length:** 9

**Comments** <plain>An overview of NASA's Johnson Space Centre [JSC near Houston, Texas. Composed of short [mainly 2 second] cuts, the video covers the centre's research programmes, objectives and training facilities.</plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000733

**Title:** STS-95 John Glenn Training Resource Reel 2 April '98

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/21/1998

**Length:** 26

**Comments:** <plain>Scheduled to fly in late October 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of the HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. Crew are to be as follows: commander Curtis Brown, pilot Steve Lindsey, mission specialists Steve Robinson, Scott Parazynski and Pedro Duque [ESA], payload specialists John Glenn and Chiaki Mukai [NASA]. Footage is as follows: crew in lecture, drink and food tasting; Glenn in shuttle simulator, CCT bailout training, NBL bailout class, computer training class, shuttle amateur radio experiment, entry monitor training. </plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000733

**Title:** STS-95 John Glenn Training Resource Reel 2 April '98

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/21/1998

**Length:** 26

**Comments:** <plain>Scheduled to fly in late October 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of the HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. Crew are to be as follows: commander Curtis Brown, pilot Steve Lindsey, mission specialists Steve Robinson, Scott Parazynski and Pedro Duque [ESA], payload specialists John Glenn and Chiaki Mukai [NASA]. Footage is as follows: crew in lecture, drink and food tasting; Glenn in shuttle simulator, CCT bailout training, NBL bailout class, computer training class, shuttle amateur radio experiment, entry monitor training. </plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000734

**Title:** ISS: Ready For Launch

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>[Faulty Timecode] A general presentation by NASDA the Japanese Space Agency. of the International Space Station. Footage is as follows: animations [various nationality] of the ISS; NASA Space Station simulator; Node and FGB [Functional Cargo Block] cleanroom footage; astronaut training footage; solar panel cleanroom footage; footage of the US Emergency Return Module parachuted from plane to Earth; GEM graphics, shuttle launch; astronau Mamoru Mohri gives interview; Takao Doi performs EVA, w crane from space shuttle; microgravity manufacture of high quality lenses, crystal growth frog in m/g; diagram of calciur dissolving from bones; nice Earthviews; shuttle-Mir docking experimental toadfish [on Earth]; in-flight Chiabi Mukai; JEM [Japanese Exeprimental Module] at Tsukuba Space Centre i Japan, various cleanroom footage [including interior]; animation HTV [H2 Transfer Vehicle] launched from H2A rocket; NASDA Mission Control room assembly graphics; ir flight astronauts [EVA] testing tools for the ISS; prototype [EVA] SPRINT remote-controlled camera; Takao Doi in EVA conference; Saichi Noyichi i/v, Mamoru Mohri i/v.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000734

**Title:** ISS: Ready For Launch

**Type:** Edited Video

**Category:** documentary,general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>[Faulty Timecode] A general presentation by NASDA the Japanese Space Agency. of the International Space Station. Footage is as follows: animations [various nationality] of the ISS; NASA Space Station simulator; Node and FGB [Functional Cargo Block] cleanroom footage; astronaut training footage; solar panel cleanroom footage; footage of the US Emergency Return Module parachuted from plane to Earth; GEM graphics, shuttle launch; astronaut Mamoru Mohri gives interview; Takao Doi performs EVA, w crane from space shuttle; microgravity manufacture of high quality lenses, crystal growth frog in m/g; diagram of calcium dissolving from bones; nice Earthviews; shuttle-Mir docking experimental toadfish [on Earth]; in-flight Chiabi Mukai; JEM [Japanese Exeprimental Module] at Tsukuba Space Centre in Japan, various cleanroom footage [including interior]; animation HTV [H2 Transfer Vehicle] launched from H2A rocket; NASDA Mission Control room assembly graphics; in flight astronauts [EVA] testing tools for the ISS; prototype [EVA] SPRINT remote-controlled camera; Takao Doi in EVA conference; Saichi Noyichi i/v, Mamoru Mohri i/v.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000735

**Title:** JSC Neutral Buoyancy Training

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>[T/C Faulty] Footage of underwater neutral buoyancy training in the pool at NASA's Johnson Space Centre. Wearing EVA suits, astronauts perform operations on mock ups of components of the International Space Station.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000735

**Title:** JSC Neutral Buoyancy Training

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>[T/C Faulty] Footage of underwater neutral buoyancy training in the pool at NASA's Johnson Space Centre. Wearing EVA suits, astronauts perform operations on mockups of components of the International Space Station.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000737

**Title:** Rockwell International

**Type:** Edited Video

**Category:** documentary, general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 10

**Comments:** <plain>A 1960/70s televised corporate video of the Rockwell International Co., based in Downey, California, a large contemporary contractor to NASA. Footage includes: Saturn S2 launch; cleanroom footage of Apollo spacecraft and docking module; in-flight footage of hatch opening; artist's impression of Space Shuttle; test model of Orbiter; mock-up of Orbiter; cleanroom footage and engineering model; testing of solar array deployment system.</plain>

**Keywords:** NASA GENERAL, HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000737

**Title:** Rockwell International

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length** 10

**Comments** <plain>A 1960/70s telicined corporate video of the Rockwell International Co., based in Downey, California, a large contemporary contractor to NASA. Footage is as follow s: Saturn S2 launch; cleanroom footage of Apollo spacecraft and docking module; in-flight footage of hatch opening; artis impression of Space Shuttle; test model of Orbiter; mock-up of Orbiter; cleanroom footage and engineering model; testin of solar array deployment system.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000739

**Title:** Ariane 4: Vol. 107

**Type:** Edited Video

**Category:** live-action recordings

**Language** ME only

**Production Date** 00/00/00

**Length** 19

**Comments** <plain>On March 23rd, 1998, the CNES Spot 4 satellite was launched by an Ariane 4 launcher [Vol 107]. This video contains footage of the campaign as follows: delivery by MI Toucan; launcher assembly; rollout of main and second stages; launcher installed into final assembly building; arriva and cleanroom assembly of satellites; payload enclosed in casing and rolled to fuelling area; attached to engine, enclosed in payload fairing; application of Spot 4 label; integration of payload; launch, including various technical footage.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000741

**Title:** Ariane 4: Vol. 106

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 00/00/00

**Length** 15

**Comments** <plain>Hot Bird 4 was launched by Ariane 4 [Vol. 106] on February 27th, 1998. This video contains footage of the campaign as follows: launcher integrated into assembly building; good shots of integration of Vehicle Equipment Bay [VEB]; rollout of launcher, closure of cryogenic arms; boost integration; arrival/ unloading of satellites; final satellite assembly, application of gold foil, etc.; satellite encased, rolled to fuelling area, fuelled; satellite put onto engine; enclosed in payload bay, hoisted to top of launcher; final assembly building rolled away, various technical footage of launch.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000742

**Title:** Space Telescope - an observatory in space

**Type:** Edited Video

**Category:** documentary,technical

**Language** English

**Production Date** 00/00/00

**Length** 15

**Comments** <plain>In 1923, the German scientist Hermann Oberth published his study 'The Rocket Into Interplanetary Space'. This introduced the idea of a telescope able to view the universe unhindered by the Earth's atmosphere. This technical documentary [1970s, early 1980s?] looks at the advantages of such a telescope, and outlines NASA's plans build and deploy one. Includes: shots of observatories, astronomical photos; the concept of observing galaxies that may be billions of light years away; spectroscopical analysis of the electromagnetic radiation which reaches the Earth; advantages of placing a telescope outside the Earth's atmosphere [i.e ten times clearer]; an explanation of how the telescope will work; illustrations to explain the mission; interviews with various scientists and astronomers; an explanation of what the telescope will tell us. </plain>

**Keywords** NASA GENERAL,HUBBLE SPACE TELESCOPE,HISTORI

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000742

**Title:** Space Telescope - an observatory in space

**Type:** Edited Video

**Category:** documentary,technical

**Language** English

**Production Date** 00/00/00

**Length** 15

**Comments** <plain>In 1923, the German scientist Hermann Oberth published his study 'The Rocket Into Interplanetary Space'. This introduced the idea of a telescope able to view the universe unhindered by the Earth's atmosphere. This technical documentary [1970s, early 1980s?] looks at the advantages of such a telescope, and outlines NASA's plans build and deploy one. Includes: shots of observatories, astronomical photos; the concept of observing galaxies that may be billions of light years away; spectroscopical analysis of the electromagnetic radiation which reaches the Earth; advantages of placing a telescope outside the Earth's atmosphere [i.e ten times clearer]; an explanation of how the telescope will work; illustrations to explain the mission; interviews with various scientists and astronomers; an explanation of what the telescope will tell us. </plain>

**Keywords** NASA GENERAL,HUBBLE SPACE TELESCOPE,HISTORI

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000745

**Title:** Envisat News Index

**Type:** Video Index

**Category:** index,A and B roll

**Language** English

**Production Date** 00/00/00

**Length** 23

**Comments** <plain>This general public documentary outlines the Envisat mission and shows how this satellite, to be launched in 2001, builds on ESA's Meteosat and ERS- series of satellites. It includes footage of Envisat development, animation of Envisat in orbit and examples of typical applications, demonstrated through ERS-results.</plain>

**Keywords** REMOTE SENSING,ENVISAT

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000745

**Title:** Envisat News Index

**Type:** Video Index

**Category:** index,A and B roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 23

**Comments:** <plain>This general public doumentary outlines the Envisat mission and shows how this satellite, to be launched in 2001, builds on ESA's Meteosat and ERS- series of satellites. It includes footage of Envisat development, animation of Envisat in orbit and examples of typical applications, demonstrated through ERS-results.</plain>

**Keywords:** REMOTE SENSING,ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000745

**Title:** Envisat News Index - B-roll only

**Type:** Video Index

**Category:** index,A and B roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>This general public doumentary outlines the Envisat mission and shows how this satellite, to be launched in 2001, builds on ESA's Meteosat and ERS- series of satellites. It includes footage of Envisat development, animation of Envisat in orbit and examples of typical applications, demonstrated through ERS-results.</plain>

**Keywords:** REMOTE SENSING,ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000746

**Title:** Pioneering Envisat

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments** <plain>This general public doumentary outlines the Envisat mission and shows how this satellite, to be launched in 2001, builds on ESA's Meteosat and ERS- series of satellites. Suitable for public presentation. </plain>

**Keywords** REMOTE SENSING,ENVISAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000747

**Title:** Integral VNR

**Type:** Edited Video

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length:** 2

**Comments** <plain>Gamma rays are a million times more energetic than visible light, and bring us information from the most violent phenomena occurring in nature. Due to be launched in 2001 by a Russian proton rocket, ESA's Integral [International Gamma-Ray Astrophysics Laboratory] satellite will detect gamma rays from the universe, something that is only possible from outside the Earth's atmosphere. This video index gives an overview of the project.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000747

**Title:** Integral VNR

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>Gamma rays are a million times more energetic than visible light, and bring us information from the most violent phenomena occurring in nature. Due to be launched in 2001 by a Russian proton rocket, ESA's Integral [International Gamma-Ray Astrophysics Laboratory] satellite will detect gamma rays from the universe, something that is only possible from outside the Earth's atmosphere. This video index gives an overview of the project. </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000748

**Title:** ARD News Index

**Type:** Video Index

**Category:** index,A and B roll

**Language:** Natural Sound Only

**Production Date:** 10/01/1998

**Length:** 29

**Comments:** <plain>The Atmospheric Reentry Demonstrator (ARD) is the first experimental payload developed by ESA to return from space by its own means. It is scheduled for launch in October 1998 on board Ariane 503, the third launch of the Ariane 5 vehicle. The launch is from Europe's spaceport in Kourou, French Guiana. Its sub-orbital ballistic path will take to a maximum altitude of 830 km before bringing it back into the atmosphere at 27 000 km/h. Atmospheric friction and a series of parachutes will slow it down for a relatively soft landing in the Pacific Ocean, some 100 minutes after launch and three-quarters of the way around the world from its Kourou starting point. The ARD will be Europe's first guided and controlled atmospheric re-entry vehicle and will provide much needed information to improve the technologies, which are critical for safe re-entry. Re-entry technology is vital if ever Europe needed to return launchers, payloads or astronauts from space and it is for this reason that the ARD is important. The ARD is not, however, a prototype for a manned crew return vehicle but is simply an unmanned capsule, designed to carry instruments to monitor the re-entry process. The mission is a European first for two reasons: 1. It is the mission's objective to put an object into space and return it safely back to Earth, using exclusively Europe-built technology. 2. The ARD mission features steered, controlled re-entry into the atmosphere, with the capsule changing its flight direction enabling it to descend close to the targeted landing site. Also, the technology used in the ARD - mechanical structures, heat shields, and navigation - is more modern than that in the existing capsules. </plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000748

**Title:** ARD News Index

**Type:** Video Index

**Category:** index,A and B roll

**Language:** Natural Sound Only

**Production Date:** 10/01/1998

**Length:** 29

**Comments:** <plain>The Atmospheric Reentry Demonstrator (ARD) is the first experimental payload developed by ESA to return from space by its own means. It is scheduled for launch in October 1998 on board Ariane 503, the third launch of the Ariane 5 vehicle. The launch is from Europe's spaceport in Kourou, French Guiana. Its sub-orbital ballistic path will take to a maximum altitude of 830 km before bringing it back into the atmosphere at 27 000 km/h. Atmospheric friction and a series of parachutes will slow it down for a relatively soft landing in the Pacific Ocean, some 100 minutes after launch and three-quarters of the way around the world from its Kourou starting point. The ARD will be Europe's first guided and controlled atmospheric re-entry vehicle and will provide much needed information to improve the technologies, which are critical for safe re-entry. Re-entry technology is vital if ever Europe needed to return launchers, payloads or astronauts from space and it is for this reason that the ARD is important. The ARD is not, however, a prototype for a manned crew return vehicle but is simply an unmanned capsule, designed to carry instruments to monitor the re-entry process. The mission is a European first for two reasons: 1. It is the mission's objective to put an object into space and return it safely back to Earth, using exclusively Europe-built technology. 2. The ARD mission features steered, controlled re-entry into the atmosphere, with the capsule changing its flight direction enabling it to descend close to the targeted landing site. Also, the technology used in the ARD - mechanical structures, heat shields, and navigation - is more modern than that in the existing capsules. </plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000749

**Title:** Unveiling Envisat

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 09/04/1998

**Length:** 9

**Comments:** <plain>Envisat, to be launched in 2000, builds on ESA's Meteorosat and ERS series of satellites. This short VNR contains footage of the Envisat mock-up at the Farnborough Airshow 1998, plus an interview with Professor David Southwood, head of Earth Observation for ESA. </plain>

**Keywords:** ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000751

**Title:** Ariane 4: Vol. 109 Campaign Video

**Type:** Edited Video

**Category:** Music clip

**Language:** ME only

**Production Date:** 08/01/1998

**Length:** 19

**Comments:** <plain>The Ariane 4 Vol.109 launch, on August 25th 1998, carried the ST-1 high power communications satellite into orbit. This video covers the entire launch campaign, and is arranged as follows: arrival of launcher at CSG; launcher raised to upright position; integration of various stages; integration of vehicle equipment bay; rollout to final assembly building; good shot from tower of closure of cryogenic arm; arrival [by plane] of satellite; transportation [by lorry] to CSG; satellite unpacked, lowered onto engine; application of gold foil; fuelling; satellite enclosed by payload fairing; application of stickers; night rollout of payload bay; payload bay hoisted; top of launcher for integration; final assembly building rolled away; various footage of launch and control room. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000752

**Title:** Weightless - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 01/10/1998

**Length:** 71

**Comments:** <plain>A historical look at creating, and experimenting with conditions of microgravity using parabolic flights. Contains archive and new footage from several different countries [including modern Russian experiments], illustrations and various presenters - including ESA astronaut Thomas Reite Translated from the German original.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000752

**Title:** Weightless: BR version

**Type:** Edited Video

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000752

**Title:** Weightless: ESA version

**Type:** Edited Video

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00000752

**Title:** Weightless - Deutsch

**Type:** Edited Video

**Category:** documentary,general public

**Language** German

**Production Date** 01/10/1998

**Length:** 71

**Comments:** <plain>A historical look at creating, and experimenting with conditions of microgravity using parabolic flights. Contains archive and new footage from several different countries [including modern Russian experiments], illustrations and various presenters - including ESA astronaut Thomas Reite </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000754

**Title:** Ariane 4: Vol 110

**Type:** Edited Video

**Category:** Music clip

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00000755

**Title:** ERS: Antarctic Result 1998

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 10/12/1998

**Length:** 12

**Comments:** <plain>This result of the ERS (European Remote Sensing) satellites that Antarctica is not shrinking was reported on October 16th, 1998 by an international team of scientists in the leading American magazine Science. But the same investigation also provided evidence that one part of West Antarctica may be rapidly losing its ice to the ocean.

The team of British, Dutch and American scientists led by Professor Duncan Wingham at University College London, based their findings on ERS data collected over the last five years. The data revealed that most of the ice stored in Antarctica is very stable. The icy continent now looks an unlikely source of rising global sea level this century making thermal expansion of the ocean due to global warming, and the shrinking of mountain glaciers, more likely causes. Prof. Wingham's team used ERS's radar altimeter instruments to determine if the thickness of the Antarctic Ice Sheet changed over the five-year period from 1992 to 1996. Transmitting over 4,000,000 radar pulses to the surface of the ice, and measuring the time taken for the echoes to return to the satellite, the average change of the height of 63% of the Ice Sheet was measured with an accuracy of 0.5 cm per year. The ice sheet has changed on average by less than 1 cm per year. Using previous measurements of changes in snowfall over the ice sheet, the team concluded that the interior of the Antarctic Ice Sheet has contributed only 1.7 cm to sea level rise this century. Sea level has risen 18 cm over the past 100 years. Previously the accuracy of data could have meant that Antarctica were responsible for a raise or lowering of global sea level by 14 cm in either direction. This video contains material related to the story. </plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000756

**Title:** Ariane 503 Stock Shots

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 10/12/1998

**Length:** 23

**Comments:** <plain>The final qualification flight of Europe's new Ariane 5 launcher, is scheduled for October 1998; its passengers will be the Maqsat 3 dummy satellite and ESA's Atmospheric Reentry Demonstrator. This tape gives a summary of the events leading up to the launch.</plain>

**Keywords:** ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000760

**Title:** News Feeds

**Type:** Edited Video

**Category:** VNR

**Language:**

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000761

**Title:** ARD News Feeds

**Type:** Edited Video

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 10/21/1998

**Length:** 7

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1997. With ESA's ARD [Atmospheric Re-entry Demonstrator] and the Maqsat 3 dummy satellite as passengers, the launch successfully completed the series three test flights, thus qualifying the new launcher for commercial use. This video is a compilation of the ARD news transmissions broadcast throughout the final stages of the Ariane 503 launch campaign. [see also production no. 100647, of which this is a part] </plain>

**Keywords:** LAUNCHERS,HISTORICAL MATERIAL,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000762

**Title:** Ariane 4: Vol. 111 Campaign Video

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 10/01/1998

**Length:** 19

**Comments:** <plain>A video which summarises the launch campaign of the Eutelsat W2 and Sirius 3 satellites, by Ariane 4 launch [Vol. 111]. Organised as follows: arrival MN Toucan; transport of Ariane components, launcher raised upright; assembly of various stages, integration of vehicle equipment bay; launcher rollout; arrival of Eutelsat by plane, removed from container in cleanroom; satellite lowered onto rocket base; satellite enclosed in transportation capsule and rolled to fuelling area; satellite fuelled; Sirius 3 unloaded from plane and fuelled; lowered onto rocket base, put into lower part of payload bay; application of sticker; payload bay hoisted and installed onto top part of launcher; final assembly building rolled away, countdown and lift-off; various launch footage including booster separation.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000764

**Title:** Canada and Europe

**Type:** Edited Video

**Category:** documentary,general public

**Language:** French

**Production Date:** 10/01/1998

**Length:** 9

**Comments:** <plain>A general documentary which illustrates ESA's relationship with the Canadian Space Agency.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000764

**Title:** Canada and Europe

**Type:** Edited Video

**Category:** documentary,general public

**Language:** French

**Production Date:** 10/01/1998

**Length:** 9

**Comments:** <plain>A general documentary which illustrates ESA's relationship with the Canadian Space Agency.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000766

**Title:** Leonids VNR

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** English

**Production Date:** 11/10/1998

**Length:** 14

**Comments:** <plain> On the night of November 17th 1998, the Earth will cross the wake of Comet Tempel-Tuttle. Countless grains of dust thrown out by the comet will slam into the atmosphere at 71 kilometres per second. The Leonids, as the dust storm is called, may produce the most spectacular shower of meteors, or "shooting stars", seen since 1966. Unfortunately for Europe, it is Asia that will point into the comet's wake - and only this part of the world will, weather permitting, observe a spectacular night time sky. This video contains relevant material, including animations, interviews with scientists and discussion on possible damage to satellites.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000768

**Title:** Zarya and Unity Index

**Type:** Video Index

**Category:** index,A and B roll

**Language:** English

**Production Date:** 11/14/1998

**Length:** 23

**Comments:** <plain>The Functional Cargo Block, or FGB, which has been named "Zarya", is the first module of the International Space Station. It will be put into orbit by a Proton launcher on the morning of November 20th, 1998. The Zarya carries all the propulsion and attitude control for maintaining the orbit and will provide all the electrical power and communications equipment for later missions. This video index contains material concerned with the FGB. </plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000769

**Title:** Tempel-Tuttle Graphics

**Type:** Video Index

**Category:** Graphics

**Language** Mute

**Production Date** 11/10/1998

**Length:** 1

**Comments:** <plain>Graphics to show the orbit of the comet Temple Tuttl around Earth and the Sun.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000771

**Title:** 503 Montage

**Type:** Edited Video

**Category:** live-action recordings

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000773

**Title:** Zarya: Live Broadcast

**Type:** Edited Video

**Category:** miscellaneous

**Language** English

**Production Date** 11/19/1998

**Length:** 75

**Comments:** <plain>The first component of the International Space Station - the Zarya Module - was launched on november 19 1998, by a Proton rocket. Combining interviews, VT inserts and feeds, this transmission from ESTEC in the Netherlands provides live coverage of the event.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION,HI

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000773

**Title:** Zarya: Live Broadcast

**Type:** Edited Video

**Category:** miscellaneous

**Language:** English

**Production Date:** 11/19/1998

**Length:** 75

**Comments:** <plain>The first component of the International Space Station - the Zarya Module - was launched on november 19 1998, by a Proton rocket. Combining interviews, VT inserts and feeds, this transmission from ESTEC in the Netherlands provides live coverage of the event.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION,HI

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000774

**Title:** Ariane 5: le Nouveau Lanceur

**Type:** Edited Video

**Category:** documentary,technical

**Language:** French and English

**Production Date:** 01/01/1996

**Length:** 23

**Comments:** <plain>A documentary on the design and construction of Europe's new Ariane 5 launcher, with details of where the various components originate. The rocket is due to be launched in 1996. The video contains much cleanroom footage, plus testing at Guiana Space Centre [CSG].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000775

**Title:** Ariane 503/ARD launch montage

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 11/25/1998

**Length:** 11

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1997. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. This video is a stylised montage of image  
of the launch, deployment of ARD and recuperation of the  
solid boosters and ARD.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000775

**Title:** Ariane 503/ARD launch montage

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 11/25/1998

**Length:** 11

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. This video is a stylised montage of image  
of the launch, deployment of ARD and recuperation of the  
solid boosters and ARD.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000776

**Title:** Ariane 503: Launch Programme

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French and English

**Production Date:** 10/20/1998

**Length:** 93

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. With ESA's ARD [Atmospheric Re-entry Demonstrator] and the Maqsat 3 dummy satellite as passengers, the launch successfully completed the series three test flights, thus qualifying the new launcher for commercial use. This video provides coverage of the launch event, with inserts detailing the launch campaign.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000777

**Title:** STS-95: Flight Days 8, 9

**Type:** Edited Video

**Category:** documentary,general public

**Language:** English

**Production Date:** 11/07/1998

**Length:** 42

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. Crew are to be as follows: commander Curtis Brown, pilot Steve Lindsay, mission specialists Steve Robinson, Scott Parazynski and Pedro Duque [ESA], payload specialists John Glenn and Chiaki Mukai [NASDA]. This tape provides coverage of flight days 8 and 9. Includes footage of crew conferences, ground control, payload operations, astronauts performing experiments and earthviews.</plain>

**Keywords:** MANNED SPACEFLIGHT,SHUTTLE MISSIONS,NASA GE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000777

**Title:** STS-95: Flight Days 1,2 3 and 4

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 11/07/1998

**Length** 42

**Comments** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. Crew are to be as follows: commander Curtis Brown, pilot Steve Lindsay, mission specialists Steve Robinson, Scott Parazynski and Pedro Duque [ESA], payload specialists John Glenn and Chiaka Mukai [NASDA]. This tape provides coverage of flight days 1, 2, 3 and 4. Includes footage of flight crew being kitted up prior to launch, boarding astrovan, crew strapped into shuttle seats, launch, payload activation, various views of the Earth; repeat, with different details; Duque and Glenn work in the Spacehab; deployment of Pansat satellite; Spartan payload; Glenn talks on ageing experiments; view payload bay; drop surface tension experiment; Earthviews; various in-flight experimentation; Duque works in the Spacehab; grapple and deployment of Spartan payload;

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000777

**Title:** STS-95: Flight Days 5, 6, 7

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 11/02/1998

**Length** 63

**Comments** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission will be the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. Crew are to be as follows: commander Curtis Brown, pilot Steve Lindsay, mission specialists Steve Robinson, Scott Parazynski and Pedro Duque [ESA], payload specialists John Glenn and Chiaka Mukai [NASDA]. This tape provides coverage of flight days 5, 6 and 7. Includes footage of crew working and exercising in Spacehab, Duque answers questions posed by Spanish schoolchildren [with English translation], Glenn interviewed on experiments, Earthviews, ground control, Duque works in Spacehab, Duque in teleconference [translated], various astronauts in teleconference, images of Sun's corona, capture of Spartan, Duque works with camera apparatus.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000779

**Title:** STS-95 Landing Footage

**Type:** Edited Video

**Category:** live-action recordings

**Language** English

**Production Date** 11/07/1998

**Length** 63

**Comments** <plain>Coverage of the landing of space shuttle Discovery at Kennedy Space Centre after the STS-95 mission on November 7th, 1998. Includes: various footage of the landing, with replays; crew disembark from crew transport vehicle; astronauts taken away in astrovan; mid-deck experiments removed from shuttle.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000782

**Title:** Unity Launch: Day 2: English

**Type:** Edited Video

**Category:** miscellaneous

**Language** English

**Production Date** 12/04/1998

**Length** 45

**Comments** <plain>The second component of the International Space Station, the Unity node[Node 1] module, was launched by the Space Shuttle on December 4th, 1998. This transmission, recorded in Cologne, Germany, covers the live event. Guests as follows: Uli Bobinger, Ulf Merbold, Ewald Reinhold, Jorg Feustel-Buechl, Christer Fuglesang. </plain>

**Keywords** SPACE STATIONS,SHUTTLE MISSIONS,INTERNATIONAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000782

**Title:** Unity Launch: Day 2: English and German

**Type:** Edited Video

**Category:** live-action recordings

**Language** English and German

**Production Date** 12/04/1998

**Length** 45

**Comments** <plain>The second component of the International Space Station, the Unity node[Node 1] module, was launched by the Space Shuttle on December 4th, 1998. This transmission, recorded in Cologne, Germany, covers the live event. Guests as follows: Uli Bobinger, Ulf Merbold, Ewald Reinhold, Jorg Feustel-Buechl, Christer Fuglesang. </plain>

**Keywords** SPACE STATIONS,SHUTTLE MISSIONS,INTERNATIONAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000782

**Title:** Unity Launch: Day 2: Deutsch

**Type:** Edited Video

**Category:** miscellaneous

**Language:** German

**Production Date:** 12/04/1998

**Length:** 45

**Comments:** <plain>The second component of the International Space Station, the Unity node[Node 1] module, was launched by the Space Shuttle on December 4th, 1998. This transmission, recorded in Cologne, Germany, covers the live event. Guests as follows: Uli Bobinger, Ulf Merbold, Ewald Reinhold, Jorg Feustel-Buechl, Christer Fuglesang. </plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,INTERNATIONAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000782

**Title:** Unity Launch: Day 1: Deutsch

**Type:** Edited Video

**Category:** miscellaneous

**Language:** German

**Production Date:** 12/03/1998

**Length:** 92

**Comments:** <plain>The second component of the International Space Station, the Unity node[Node 1] module, was launched by the Space Shuttle on December 4th, 1998. This transmission, recorded in Cologne, Germany, covers the first day of the live event - the launch was postponed. Guests as follows: Christer Fuglesang, Ulf Merbold, Ulli Bobinger, Antonio Rodota.</plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,INTERNATIONAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000782

**Title:** Unity Launch: Day 1: English

**Type:** Edited Video

**Category:** miscellaneous

**Language:** English

**Production Date:** 12/03/1998

**Length:** 92

**Comments:** <plain>The second component of the International Space Station, the Unity node[Node 1] module, was launched by the Space Shuttle on December 4th, 1998. This transmission, recorded in Cologne, Germany, covers the first day of the live event - the launch was postponed. Guests as follows: Christer Fuglesang, Ulf Merbold, Ulli Bobinger, Antonio Rodota.</plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,INTERNATIONAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000782

**Title:** Unity Launch: Day 1: English and German

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English and German

**Production Date:** 12/04/1998

**Length:** 92

**Comments:** <plain>The second component of the International Space Station, the Unity node[Node 1] module, was launched by the Space Shuttle on December 4th, 1998. This transmission, recorded in Cologne, Germany, covers the first day of the live event - the launch was postponed. Guests as follows: Christer Fuglesang, Ulf Merbold, Ulli Bobinger, Antonio Rodota.</plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,INTERNATIONAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000784

**Title:** Ariane 503: Vol. 112 Music Clip

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 01/15/1999

**Length:** 15

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. With specially-composed music, this  
video is a montage of images running from the start of the  
launcher campaign to the successful recovery of the ARD  
from the Pacific Ocean.</plain>

**Keywords** HISTORICAL MATERIAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000784

**Title:** Ariane 503: Vol. 112 Music Clip [FX ONLY]

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 01/15/1999

**Length:** 15

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. With specially-composed music, this  
video is a montage of images running from the start of the  
launcher campaign to the successful recovery of the ARD  
from the Pacific Ocean.</plain>

**Keywords** HISTORICAL MATERIAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000784

**Title:** Ariane 503: Vol. 112 Music Clip

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 01/15/1999

**Length:** 15

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. With specially-composed music, this  
video is a montage of images running from the start of the  
launcher campaign to the successful recovery of the ARD  
from the Pacific Ocean.</plain>

**Keywords** HISTORICAL MATERIAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000784

**Title:** Ariane 503: Vol. 112 Music Clip [MUTE]

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 01/15/1999

**Length:** 15

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. With specially-composed music, this  
video is a montage of images running from the start of the  
launcher campaign to the successful recovery of the ARD  
from the Pacific Ocean.</plain>

**Keywords** HISTORICAL MATERIAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000784

**Title:** Ariane 503: Vol. 112 Music Clip: FINAL VERSION

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 01/15/1999

**Length:** 15

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. With specially-composed music, this  
video is a montage of images running from the start of the  
launcher campaign to the successful recovery of the ARD  
from the Pacific Ocean.</plain>

**Keywords** HISTORICAL MATERIAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000784

**Title:** Ariane 503: Vol. 112 Vol normal (intern. sound)

**Type:** Edited Video

**Category:** documentary,technical

**Language** M/E only

**Production Date** 01/15/1999

**Length:** 15

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. With international sound, this video is a  
montage of images running from the start of the launcher  
campaign to the successful recovery of the ARD from the  
Pacific Ocean.</plain>

**Keywords** HISTORICAL MATERIAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000785

**Title:** Ariane 4: Vol. 115 Campaign Video

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 01/01/1999

**Length** 10

**Comments** <plain>The Ariane 4 Vol. 115 launch, on December 21st 1998, carried the Panamsat 6B satellite into orbit. This video contains footage of the whole launch campaign, as follows arrival of launcher components at CSG Kourou; launcher main stage raised upright in assembly building, second stag integrated; solid boosters attached, vehicle equipment bay integrated; launcher rolled out and integrated into final assembly building; arrival of satellite, unloaded from plane; satellite in cleanroom, enclosed in container and rolled-out to fuelling bay; satellite fuelled; enclosed in payload bay, PanAmSat logo; payload bay winched to top of launcher, fir assembly building pulled away; various footage of launch.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000787

**Title:** Ariane 4: Vol. 115 Campaign /Launch 1

**Type:** Edited Video

**Category:** miscellaneous

**Language** French and English

**Production Date** 01/01/1999

**Length** 59

**Comments** <plain>The Ariane 4 Vol. 115 launch, on December 21st 1998, carried the Panamsat 6B satellite into orbit. This video contains images of the campaign from arrival of launcher components to launch [see production no. 000785], a live transmission [in French and English] of the launch itself, and various technical footage of the launch.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000787

**Title:** Ariane 4: Vol. 115 Campaign /Launch 2

**Type:** Edited Video

**Category:** miscellaneous

**Language** French and English

**Production Date** 01/01/1999

**Length:** 42

**Comments** <plain>The Ariane 4 Vol. 115 launch, on December 21st 1998, carried the Panamsat 6B satellite into orbit. This video contains rushes of the assembly of the launcher.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000788

**Title:** ARD MOD Film

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 00/00/00

**Length:** 9

**Comments** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. The launch successfully completed the series of three test flights, thus qualifying the new launcher for commercial use. ESA's ARD [Atmospheric Re-entry Demonstrator] was one of its passengers. After a successful sub-orbital flight, the ARD was recovered from the Pacific ocean by the French Navy. This video details recovery training, launch of the ARD and the recovery itself. Interview with: Lieutenant de vaisseau J-Pierre Boin, Commandant le REVI; Thierry Levuegle, Responsable Recuperation, Aerospatiale.</plain>

**Keywords** ARIANE 5,ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000788

**Title:** ARD MOD Film

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 00/00/00

**Length:** 9

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. The launch successfully completed the series of three test flights, thus qualifying the new launcher for commercial use. ESA's ARD [Atmospheric Re-entry Demonstrator] was one of its passengers. After a successful sub-orbital flight, the ARD was recovered from the Pacific ocean by the French Navy. This video details recovery training, launch of the ARD and the recovery itself. Interview with: Lieutenant de vaisseau J-Pierre Boin, Commandant le REVI; Thierry Levuegle, Responsable Recuperation, Aerospatiale.</plain>

**Keywords** ARIANE 5,ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000789

**Title:** The Living Planet Programme - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 09/30/1998

**Length:** 7

**Comments:** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000789

**Title:** The Living Planet Programme - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000789

**Title:** The Living Planet Programme - Francais

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000789

**Title:** The Living Planet Programme - Francais

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000789

**Title:** The Living Planet Programme - Deutsch

**Type:** Edited Video

**Category:** documentary,general public

**Language** German

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000789

**Title:** The Living Planet Programme - Deutsch

**Type:** Edited Video

**Category:** documentary,general public

**Language** German

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000789

**Title:** The Living Planet Programme - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000789

**Title:** The Living Planet Programme - Deutsch

**Type:** Edited Video

**Category:** documentary,general public

**Language** German

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00000789

**Title:** The Living Planet Programme - Francais

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 09/30/1998

**Length:** 7

**Comments** <plain>A documentary which looks at global environmental catastrophes, and the relevance of ESA's present and forthcoming programmes of Earth Observation.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000792

**Title:** 503 CSG Music Clips, EAP recovery technical footage

**Type:** Edited Video

**Category:** miscellaneous

**Language** M/E only

**Production Date** 00/00/00

**Length:** 47

**Comments** <plain>Contains: CSG-produced music video of the Ariane 503 campaign, including booster [EAP] recovery; CSG-produced music video of the launch itself, including onboard camera footage; technical footage of tracking EAPs, chutes opening, descent, first recovery vessel. </plain>

**Keywords** ARIANE 5,LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000793

**Title:** Ariane 4: Vol. 113 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 00/00/00

**Length:** 45

**Comments** <plain>An overview of the Vol. 113 Ariane 4 campaign which led to the deployment of the GE5 and Afristar satellites. Footage as follows: arrival of MN Toucan, unloading of rocket components, mating of stages, booster attachment, vehicle equipment ring added, rollout to final assembly building, closure of cryogenic arms, satellites unloaded from plane, preparation and fuelling, payload bay winched to top of launcher, control room, launch, various technical footage of launch.</plain>

**Keywords** ARIANE 1 - 4,LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000795

**Title:** America in Space: the First Five Years

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 01/01/1963

**Length** 14

**Comments** <plain>A 1963 documentary which celebrates the fifth anniversary of NASA. Includes: NASA launch operations centre in Cape Canaveral; launch with palm trees in foreground; crowds cheer John Glenn on his return; space programme press conference; rocket explodes in flight, examination of debris; engineers receive telemetric data; rocket construction, launch; demonstration of Mariner 2 space probe; Mariner 2 launch, receiving signals; various [blurry] astronomical images; animation of ECHO mission; uncovering of Telstar; first satellite TV transmissions; receiving telemetric signals; Tyros weather satellite; X15 rocket powered aircraft; astronaut trainees return from sea wearing sub-aqua tanks; astronaut closed into heat chamber; centrifugal training, parabolic flight training; launch of John Glenn's Atlas rocket-powered aircraft; Scott Carpenter is given medal; Walter Schirard; retrieval of Gordon Cooper's capsule; test model of Gemini capsules; testing of Apollo capsules; Saturn rocket is test-launched; rocket POV of launch. </plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000796

**Title:** ESA Image Bank 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language** ME only

**Production Date** 01/25/1999

**Length** 59

**Comments** <plain>A compilation of images, divided into subject headings as follows: European Spacecraft Explore The Sun; ESA Missions - Viewing The Earth From Space; The Solar System; The Universe. An extensive script/shotlist accompanies this cassette. </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000796

**Title:** ESA Image Bank 1998

**Type:** Video Index

**Category:** index,chapter-structured

**Language** M/E only

**Production Date** 01/25/1999

**Length:** 59

**Comments** <plain>A compilation of images, divided into subject headings as follows: European Spacecraft Explore The Sun; ESA Missions - Viewing The Earth From Space; The Solar System; The Universe. An extensive script/shotlist accompanies this cassette. </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000798

**Title:** SOHO VNR February 1999

**Type:** Edited Video

**Category:** VNR

**Language** French and English

**Production Date** 04/02/1999

**Length:** 11

**Comments** <plain>A Video News Release produced on the occasion of the publication by the American magazine, Science, of the finding by researchers working with data from the SOHO satellite, from where the particles of the Solar wind originate on the Sun's surface. Includes 3-D graphics of SOHO, the Sun as seen by SOHO, the researchers' findings, and their comments by ESA Director of Science Programmes, Roger-Maurice Bonnet. French and English A-rolls, followed by B-roll.</plain>

**Keywords** SOHO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000799

**Title:** Mlssion Perseus

**Type:** Video Index

**Category:** index,chapter-structured

**Language** M/E only

**Production Date** 02/15/1999

**Length:** 35

**Comments** <plain>This video index was produced by the French Space Agency, CNES, for the French mission Perseus in which ESA astronaut Jean-Pierre Haignere participates. His back-up is French astronaut Claude Andre-Deshays. The Index shows general training footage for the stay on MIR and the experiments, plus interviews in French with both astronauts.</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000800

**Title:** Ariane 5 - CNES video

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 11/15/1998

**Length:** 3

**Comments** <plain>Music clip on the Ariane 5 development and second qualification flight, Ariane 503, on 21 October 1998. Text keyed into images and copyrighted music used. Mainly suitable for presentations and event use.</plain>

**Keywords** ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000801

**Title:** ARD Returns to Europe VNR

**Type:** Video Index

**Category:** VNR

**Language:** English

**Production Date:** 01/17/1999

**Length:** 15

**Comments:** <plain>Video News release produced for the event on 22 February 1999 at which the ARD (Atmospheric Re-Entry Demonstartor) was shown to the media, at Aerospatiale's Bordeaux establishment. The VNR is composed of a 3 minute A roll with English narration and a 12-minute B-roll with international sound. </plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000802

**Title:** Haignere launch highlights

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** French

**Production Date:** 02/24/1999

**Length:** 13

**Comments:** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a six month stay aboard the Russian space station Mir. This mission, named Perseus, is the fifth French-Russian mission to date. Along w ith Russian commander Viktor Afanassiev and Slovak Ivan Bella, Haignere was carried into space in a Soyuz capsule onboard a Salyut launcher. Onboard Mir, Haignere will carry out European experiments in microgravi two of which have been developed by ESA. This video includes highlights of the launch, as well as training footage of Haignere and the CNES astronaut Claudie Andre-Deshays.</plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000804

**Title:** Perseus: Live Transmission

**Type:** Edited Video

**Category:** miscellaneous

**Language:** French

**Production Date:** 02/18/1999

**Length:** 58

**Comments:** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a six month stay aboard the Russian space station Mir. This mission, named Perseus, is the fifth French-Russian mission to date. This production is s recording of the live transmission of the event, with VT inserts, French commentators and interviews.</plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000805

**Title:** les Conquetes de l'Espace

**Type:** Edited Video

**Category:** documentary,general public

**Language:** French

**Production Date:** 12/01/1998

**Length:** 10

**Comments:** <plain>Produced by le Centre Nationale d'Etudes Spatiales and la Cite des Sciences et de l'Industrie, this documentary takes a look at man's aspirations and achievements in spac exploration from the late nineteenth century to the present day. Containing much important historical archive footage.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000806

**Title:** Perseus: VNR 1

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 02/18/1999

**Length:** 15

**Comments:** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a six month stay aboard the Russian space station Mir. This mission, named Perseus, is the fifth French-Russian mission to date. Arrival by plane of astronauts at Baikonur; pre-flight conference from behind isolation screen; testing of launch suit and inspection of Soyuz capsule; raising flags with back-up, Claude Andre Deshays; rollout of Salyut launcher. Image quality is poor in parts.</plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000807

**Title:** Perseus: VNR 2

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 02/18/1999

**Length:** 14

**Comments:** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a six month stay aboard the Russian space station Mir. This mission, named Perseus, is the fifth French-Russian mission to date. Footage as follow s: Russian State Commission press conference, astronauts behind decontamination scre French interview at Baikonur with Lionel Suchet, CNES hea of Perseus project. Image quality is poor throughout.</plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 0000808

**Title:** Freedom 7

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 01/01/1962

**Length** 28

**Comments** <plain>On May 5, 1961, Alan Shepard became the first American in space. He was launched into a sub-orbital ballistic trajectory onboard a Mercury capsule, Freedom 7, t flight lasting approximately 15 minutes. This documetary provides an astronaut-point-of-view story of the project. Useful images as follows: various shots of early American satellites; 1961 launch of Mercury astronaut Alan Shepard; various engineering tests - rocket firing, capsule splashdov astronaut tests - capsule simulator, parabolic flight training, force simulator, attitude control simulator, gyroscope, sea rescue training; Redstone launch vehicle construction; parachute tesing of capsule; various rocket launches; pre-flight medical testing of experimental chimpanzee; Redstone raised into place, systems testing; Mercury capsule raised i top of launcher; control centres and tracking stations rehearsal; fuelling, various shots countdown centre; medic checks; Shepard emerges from bus by launchpad, takes lif top of launcher, is prepared for launch by technicians; gan pulled back, 'cherry picker' escape vehicle is raised into position; press on stands; helicopter, observation jets, amphibious rescue vehicle; Shepard in capsule prior to launch; launch with mission control and observers; view of Earth; view of Shepard throughout flight; recovery from sea; helicopter. Telecine quality is poor, much generation loss.</plain>

**Keywords** HISTORICAL MATERIAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000809

**Title:** NASA: The 50th Year

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 01/01/1967

**Length:** 18

**Comments** <plain>An aeronautics and space report by NASA to celebrate 50 years of research [1917 to 1967]. The first part of the film is presented from the Smithsonian Institution National Air and Space Museum. Useful footage as follows: various shots of old aircraft, old wind tunnel containing model plane, Apollo model in same tunnel, airship biplane, various historical aircraft, splashdown testing of Apollo, various WW11 aircraft, test pilot in wind tunnel, X15 hypersonic research aircraft, landing loads track testing, arcjet facilities to test re-entry technology, exterior view Langley research centre, President Kennedy decorates astronauts at the White House, Apollo docking simulation, HL10 is dropped by plane and lands, Vertical Takeoff Or Landing aircraft [VTOL].</plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000810

**Title:** Adapting to Space

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length:** 30

**Comments** <plain>[Moonwalk Series: Programme 2] Contains: classic space fiction material, Flash Gordon; Saturn 5 construction; stage separation footage from space; Houston ground control; graphics of Apollo mission, ground stations, various footage from Apollo mission; medical monitoring, heat chamber, free-fall testing, co-ordination testing, G-force training [with onboard camera], construction of command module Columbia, good space suit construction and fitting, testing of suit in pool and parabolic flight, in-flight footage of Apollo capsule. 1960s.</plain>

**Keywords** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000811

**Title:** NASA Parabolic Flight

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1985

**Length:** 10

**Comments:** <plain>Pre-flight tutoring;launch, interior and exterior views parabolic flight.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000813

**Title:** Man In Space

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 14

**Comments:** <plain>Set to music, this piece covers various aspects of manned spaceflight - antique flying machine footage, early NASA launches, early manned spaceflight, EVA, separation and docking footage from space, astronauts on board Skyl Apollo. </plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000814

**Title:** The World Was There

**Type:** Edited Video

**Category:** miscellaneous

**Language** English

**Production Date** 00/00/00

**Length:** 29

**Comments:** <plain>[Recorded from NASA Select] An early NASA documentary concerned with John Glenn's historical mission to become the first American in orbit, and the media response to the event.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000816

**Title:** Mars Express VNR

**Type:** Video Index

**Category:** VNR

**Language** French, German and English

**Production Date** 04/30/1999

**Length:** 20

**Comments:** <plain>On 30th March, Matra Marconi will sign a contract with ESA for development of the Mars Express project. In addition to being ESA's first journey to Mars, the project will also be the cheapest ever mission to the Red Planet. Due to be launched in 2003, Mars Express will comprise an Orbiter and Lander which will search the planet for water - and the possibility of life. This VNR provides an overview of the mission, including brand new graphics and background material.</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000816

**Title:** Mars Express VNR

**Type:** Video Index

**Category:** VNR

**Language** French, German and English

**Production Date** 04/30/1999

**Length:** 20

**Comments** <plain>On 30th March, Matra Marconi will sign a contract with ESA for development of the Mars Express project. In addition to being ESA's first journey to Mars, the project will also be the cheapest ever mission to the Red Planet. Due to be launched in 2003, Mars Express will comprise an Orbiter and Lander which will search the planet for water - and the possibility of life. This VNR provides an overview of the mission, including brand new graphics and background material.</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000817

**Title:** Space Imaging

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** English

**Production Date:** 01/01/1998

**Length:** 23

**Comments:** <plain>Corporate video of the American Space Imaging remote-sensing company. Arranged as follows: animation satellite flying over the Earth, merge to Space Imaging logo; animation showing simulated IKONOS satellite launch; launch of Lunar Prospector Satellite onboard Athena 11 rocket; mission director centre during Athena 11 launch; aerial footage of Vandenberg Air Force Base with launch of GEMstar; IKONOS 1 and 2 in cleanroom at Lockheed Martin Missiles and Space; animation showing space imaging satellite constellation circling the globe; animation showing satellite tasking, image collection, data transmission and processing sequences; exterior view of Space Imaging Corporate Headquarters, Thornton, Colorado; satellite tasking and receiving dish at space imaging headquarters; system control and tasking room; CARTERRA archive/robot; using the World Wide Web to access the CARTERRA archive; large format satellite image printer; image analysts working computers; i/v John Copple, Chief Executive Officer, Space Imaging; i/v Jeff Harris, President Space Imaging; zoom-in from space of San Francisco, California; 3D fly-through imagery of Denver, Colorado; various imagery samples; types of industries that can use satellite imagery.</plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000817

**Title:** Space Imaging

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** English

**Production Date:** 01/01/1998

**Length:** 23

**Comments:** <plain>Corporate video of the American Space Imaging remote-sensing company. Arranged as follows: animation satellite flying over the Earth, merge to Space Imaging logo; animation showing simulated IKONOS satellite launch; launch of Lunar Prospector Satellite onboard Athena 11 rocket; mission director centre during Athena 11 launch; aerial footage of Vandenberg Air Force Base with launch of GEMstar; IKONOS 1 and 2 in cleanroom at Lockheed Martin Missiles and Space; animation showing space imaging satellite constellation circling the globe; animation showing satellite tasking, image collection, data transmission and processing sequences; exterior view of Space Imaging Corporate Headquarters, Thornton, Colorado; satellite tasking and receiving dish at Space Imaging headquarters; system control and tasking room; CARTERRA archive/robot; using the World Wide Web to access the CARTERRA archive; large format satellite image printer; image analysts working computers; i/v John Copple, Chief Executive Officer, Space Imaging; i/v Jeff Harris, President Space Imaging; zoom-in from space of San Francisco, California; 3D fly-through imagery of Denver, Colorado; various imagery samples; types of industries that can use satellite imagery.</plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000818

**Title:** DLR: Mars Express HRSC material

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** German

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>TThis VNR contains material concentering the High Resolution Stereo Imaging Camera [HRSC], which is being developed by Germany for use onboard the Mars Express mission [due to be launched in 2003]. i/v Prof. Dr. Gerhard Neukum; examination of components for the camera, test images; computer mapping of Mars surface; screen output design plans for camera; i/v Dr Rainer Sandau; more examination of camera components.</plain>

**Keywords:** SPACE SCIENCE,MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000819

**Title:** DLR: Rosetta Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** German

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>ESA's Rosetta mission will be launched by Ariane 5 2003. It will spend eight years positioning ultra-sensitive equipment to observe comet Wirtanen. This index by DLR contains the folowing material [board text in German] - Ariat 503 launch footage, including on-board camera recordings; Rosetta graphics, 2d and 3D to illustrate mission; comet flyby, Rosetta takes pictures; orbit around comet, deployme of lander, landing on comet's surface; cleanroom constructi of satellite; i/v Prof. Berndt P. Fuerbacher, with with lander model in background and as a cutaway.</plain>

**Keywords:** SPACE SCIENCE,ROSETTA

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000821

**Title:** Mars Express: Signing Feed

**Type:** Video Index

**Category:** live-action recordings

**Language** French

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>On 30th March, Matra Marconi will sign a contract with ESA for development of the Mars Express project. In addition to being ESA's first journey to Mars, the project will also be the cheapest ever mission to the Red Planet. Due to be launched in 2003, Mars Express will comprise an Orbiter and Lander which will search the planet for water - and the possibility of life. This cassette - broadcast from ESA headquarters on the day of the contract signing - contains footage of ESA Director-General Antonia Rodota and Matra Marconi 's Chief Executive Officer Armand Carlier giving signing speeches and signing the contract. It is followed by segment of the Mars Express VNR B-roll [production number 000816].</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000821

**Title:** Mars Express: Signing Feed

**Type:** Video Index

**Category:** live-action recordings

**Language** French

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>On 30th March, Matra Marconi will sign a contract with ESA for development of the Mars Express project. In addition to being ESA's first journey to Mars, the project will also be the cheapest ever mission to the Red Planet. Due to be launched in 2003, Mars Express will comprise an Orbiter and Lander which will search the planet for water - and the possibility of life. This cassette - broadcast from ESA headquarters on the day of the contract signing - contains footage of ESA Director-General Antonia Rodota and Matra Marconi 's Chief Executive Officer Armand Carlier giving signing speeches and signing the contract. It is followed by segment of the Mars Express VNR B-roll [production number 000816].</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000821

**Title:** Mars Express: Signing Feed Rushes

**Type:** Video Index

**Category:** live-action recordings

**Language:** French

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>On 30th March, Matra Marconi will sign a contract with ESA for development of the Mars Express project. In addition to being ESA's first journey to Mars, the project will also be the cheapest ever mission to the Red Planet. Due to be launched in 2003, Mars Express will comprise an Orbiter and Lander which will search the planet for water - and the possibility of life. This cassette - broadcast from ESA headquarters on the day of the contract signing - contains footage of ESA Director-General Antonia Rodota and Matra Marconi's Chief Executive Officer Armand Carlier giving signing speeches and signing the contract.</plain>

**Keywords:** SPACE SCIENCE,MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000822

**Title:** 25th ESA Parabolic Flight Campaign 1998

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/10/1998

**Length:** 9

**Comments:** <plain>Recoodings of ESA's 1999 parabolic flight campaign including onboard experiments and ESA astronaut Andre Kuipers. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000823

**Title:** X-38 Resource Tape

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>An index containing material related to NASA's development of the X38, including: lifting body and steerable chute 3D models; 8 entry trajectory; X38 entry and landing visual stimulation; X38 flight test vehicle at Johnson Space Centre [JSC]; transfer to Ellington field; John Muratore, X38 project manager; X38 animation; animation X38 installation with Space Station remote manipulator; animation X38 separation and landing; X38 rolled out and loaded onto plane arrival at Dryden.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000823

**Title:** X-38 Resource Tape

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>An index containing material related to NASA's development of the X38, including: lifting body and steerable chute 3D models; 8 entry trajectory; X38 entry and landing visual stimulation; X38 flight test vehicle at Johnson Space Centre [JSC]; transfer to Ellington field; John Muratore, X38 project manager; X38 animation; animation X38 installation with Space Station remote manipulator; animation X38 separation and landing; X38 rolled out and loaded onto plane arrival at Dryden.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000824

**Title:** Matra Marconi Space

**Type:** Edited Video

**Category:** index,chapter-structured

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 9

**Comments:** <plain>A general presentation of Matra Marconi - contains various images under the following headings: sites, telecommunications [including cleanroom footage], Earth Observation, science, launchers, manned spaceflight, history.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000826

**Title:** Hermes: Wings For Europe

**Type:** Edited Video

**Category:** documentary,general public

**Language:** English

**Production Date:** 11/10/1991

**Length:** 12

**Comments:** <plain>A video which focusses on Hermes, Europe's proposed manned space vehicle. Designed for a crew of three and assorted payloads, the project could be run in conjunction with the Ariane 5 and Columbus free-flying laboratory programmes. The video contains an outline of the project, with many animations.</plain>

**Keywords:** HERMES

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000829

**Title:** Ariane 4: Vol 117 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/10/1999

**Length:** 9

**Comments** <plain>The vol. 117 launch of Ariane 4, on April 3rd, 1999 carried the Indian telecommunications and meteorology satellite Insat into orbit. This video contains an overview of campaign, as follows: arrival of Ariane 4 components by th HM Toucan vessel; launcher raised upright; integration of various stages and vehicle equipment bay; rollout to final assembly building, cryogenic arms closed; Insat container unloaded from plane; Insat solar arrays tested; satellite fuelled, lowered onto base; payload bay doors closed; payl raised to top of launcher; integration of payload onto launch final assembly building rolled away; various views of launch</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000830

**Title:** Brussels Ministerial Conference 1999: VNR 1

**Type:** Video Index

**Category:** VNR

**Language** Natural Sound Only

**Production Date** 05/12/1999

**Length:** 13

**Comments** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This VNR contains coverage of the first day of the event as follows - arrival shots; conference room shots before meeting starts Lord Sainsbury takes chair of ESA council; ESA Director General Antonio Rodota; German Space Minister Frau Edelgard Bulmahn; Swedish Space Minister Mrs Mona Sahlin; Danish Space Minister Mr Jan Trojborg; Norwegian Space Minister Mr Lars Sponheim; Irish Head of Delegation Mr Mattie McCabe; Interview Lord Sainsbury; exterior shots Palais d'Egmont.</plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000830

**Title:** Brussels Ministerial Conference 1999: VNR 1

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 05/12/1999

**Length:** 13

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This VNR contains coverage of the first day of the event as follows - arrival shots; conference room shots before meeting starts - Lord Sainsbury takes chair of ESA council; ESA Director General Antonio Rodota; German Space Minister Frau Edelgard Bulmahn; Swedish Space Minister Mrs Mona Sahlin; Danish Space Minister Mr Jan Trojborg; Norwegian Space Minister Mr Lars Sponheim; Irish Head of Delegation Mr Mattie McCabe; Interview Lord Sainsbury; exterior shots Palais d'Egmont.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000830

**Title:** Brussels Ministerial Conference 1999: VNR 2

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 05/12/1999

**Length:** 10

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This VNR contains coverage of the second day of the event as follows - delegates gather outside Palais d'Egmont; conference room shots; French delegation at conference table; Spanish delegation at conference table; Belgian delegation at conference table; Italian delegation at conference table; pre-briefing - Jean-Jacques Dordain, ESA Director of Strategy.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000830

**Title:** Brussels Ministerial Conference 1999: VNR 2

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 05/12/1999

**Length:** 10

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This VNR contains coverage of the second day of the event as follows: delegates gather outside Palais d'Egmont; conference room shots; French delegation at conference table; Spanish delegation at conference table; Belgian delegation at conference table; Italian delegation at conference table; press briefing - Jean-Jacques Dordain, ESA Director of Strategy.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000831

**Title:** STS-96: Crew Training

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/03/1999

**Length:** 12

**Comments:** <plain>NASA's STS-96 mission, due to be launched on May 27th 1999, will carry supplies to the International Space Station. This video contains footage of astronauts training for this mission - electrical power system training, EVA training in the virtual reality lab, Orbiter space vision system training [training on the Canada arm], crew photo session, bailout training in swimming pool.</plain>

**Keywords:** SPACE STATIONS,NASA GENERAL,MANNED SPACEFLI

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000832

**Title:** STS-88 Flight Day 9,10,11,12 Highlights

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 53

**Comments:** <plain>The STS-88 Shuttle mission involved the joining of the first two elements of the International Space Station - the Russian Zarya module and the American node Unity. On December 10th, 1998, Russian cosmonaut mission specialist Sergei Krikalev and mission commander Robert Cabana opened the hatch between Endeavour and the first element of the International Space Station. This video contains footage of flight days 9,10,11 and 12 as follows: astronaut pass through modules, perform final maintenance tasks; closure of hatch; EVA maintenance of modules, including deployment of antennae; exterior and interior views of modules released from Canada arm; view of module with Earth in background; satellite deployment; crew members exercising, using laptop, holding family photos; satellite deployment, moves into orbit; payload bay doors shut, crew get into orange re-entry suits; flight deck views of re-entry; night landing; astronauts disembark from crew transport vehicle.</plain>

**Keywords:** SPACE STATIONS,NASA GENERAL,MANNED SPACEFLI

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000833

**Title:** ARD: Bourget Promo [subtitles]

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. The launch successfully completed the series of three test flights, thus qualifying the new launcher for commercial use. ESA's ARD [Atmospheric Re-entry Demonstrator] was one of its passengers. This video, made for the Paris Airshow 1999, details the various stages of the ARD campaign - from arrival at Europe's spaceport in Kourou, to retrieval from the Pacific Ocean. Subtitles in French and English occur throughout.</plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000833

**Title:** ARD: Bourget Promo [subtitles]

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. The launch successfully completed the series of three test flights, thus qualifying the new launcher for commercial use. ESA's ARD [Atmospheric Re-entry Demonstrator] was one of its passengers. This video, made for the Paris Airshow 1999, details the various stages of the ARD campaign - from arrival at Europe's spaceport in Kourou, to retrieval from the Pacific Ocean. Subtitles in French and English occur throughout.</plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000834

**Title:** ARD: Bourget Promo

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. The launch successfully completed the series of three test flights, thus qualifying the new launcher for commercial use. ESA's ARD [Atmospheric Re-entry Demonstrator] was one of its passengers. This video, made for the Paris Airshow 1999, details the various stages of the ARD campaign - from arrival at Europe's spaceport in Kourou, to retrieval from the Pacific Ocean.</plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000834

**Title:** ARD: Bourget Promo

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. The launch successfully completed the series of three test flights, thus qualifying the new launcher for commercial use. ESA's ARD [Atmospheric Re-entry Demonstrator] was one of its passengers. This video, made for the Paris Airshow 1999, details the various stages of the ARD campaign - from arrival at Europe's spaceport in Kourou, to retrieval from the Pacific Ocean.</plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000835

**Title:** The MPLM

**Type:** Edited Video

**Category:** documentary,general public

**Language:** Italian

**Production Date:** 00/00/00

**Length:** 32

**Comments:** <plain>Produced by Alenia Aerospazio, this video focuses on the Italian-made Mini Pressurised Logistics Module [MPLM]. The video starts with a sequence illustrating mankind's evolution from ape-like ancestors to a species capable of dreaming of a space station. After a section illustrating both the exterior and interior of the International Space Station - currently under construction - we see the design and construction of the MPLM. Neutral buoyancy training on a submerged mock-up of the MPLM [featuring ESA astronaut Claude Nicollier] is included, followed by the 1998 delivery of the MPLM to NASA's Kennedy Space Center by the 'Super Transporter' aircraft. The video ends with the Module being lifted into a cleanroom at KSC. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000836

**Title:** 25th ESA Parabolic Flight Campaign 1998

**Type:** Video Index

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/10/1998

**Length:** 9

**Comments:** <plain>Recordings of ESA's 1999 parabolic flight campaign including onboard experiments and ESA astronaut Andre Kuipers. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000839

**Title:** Ariane 502: The Turning Point

**Type:** Edited Video

**Category:** miscellaneous

**Language:** ME only

**Production Date:** 03/01/1999

**Length:** 42

**Comments:** <plain>An internal video which showing the Ariane 502 campaign and launch. Throughout launch and flight, sound mixed between the control room and the CVI. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000839

**Title:** Ariane 502: The Turning Point

**Type:** Edited Video

**Category:** miscellaneous

**Language:** ME only

**Production Date:** 03/01/1999

**Length:** 42

**Comments:** <plain>An internal video which showing the Ariane 502 campaign and launch. Throughout launch and flight, sound mixed between the control room and the CVI. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000841

**Title:** Envoi d'Europa

**Type:** Edited Video

**Category:** documentary,general public

**Language:** French

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>A documentary which details the launch campaign c  
ELDO's Europa rocket Contains some nice shots of the  
various components, and spectacular launch footage, as w  
as early footage of the Guyana Space Centre [note: the  
launcher never successfully injected a payload into orbit, o  
reaching second stage separation]. </plain>

**Keywords:** HISTORICAL MATERIAL,ELDO

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000842

**Title:** Parabolic Flight Campaign Nov '94

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/01/1994

**Length:** 18

**Comments:** <plain>A contribution towards European Week for Scientific  
Culture, this video contains images of ESA's 1994 student  
parabolic flight campaign [and features ESA astronaut  
Wubbo Ockels]. Includes: students are lectured to on the  
principles of microgravity, and various aspects of the flight;  
various pre-flight preparations; pre-flight testing of  
experiments; students float in microgravity for first time;  
various experiments; French TV presenter floats and spee  
to camera, same for English 'Blue Peter' presenter; student  
leave plane; flight technician with monitoring equipment; mo  
in-flight experiments; debriefing from Ockels; students  
disembark; </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000842

**Title:** Parabolic Flight Campaign Nov '94 tape 1

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/01/1994

**Length:** 54

**Comments:** <plain>A contribution towards European Week for Scientific Culture, this video contains images of ESA's 1994 student parabolic flight campaign [and features ESA astronaut Wubbo Ockels]. Includes: students are lectured to on the principles of microgravity, and various aspects of the flight; various students explain their experiments; [nb sound channels switch half way through]</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000842

**Title:** Parabolic Flight Campaign Nov '94 tape 3

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/01/1994

**Length:** 31

**Comments:** <plain>A contribution towards European Week for Scientific Culture, this video contains images of ESA's 1994 student parabolic flight campaign [and features ESA astronauts Wubbo Ockels and Pedro Duque]. Includes: speech by Ockels; students in plane are lectured to; interviews with students, various presenters; various experiments; people spun in microgravity; students disembark.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000842

**Title:** Parabolic Flight Campaign Nov '94 tape 6

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/01/1994

**Length:** 33

**Comments:** <plain>A contribution towards European Week for Scientific Culture, this video contains images of ESA's 1994 student parabolic flight campaign [and features ESA astronaut Wubbo Ockels]. Includes: tracking shot forwards along crew line-up; students climb onboard plane; students on plane prior to launch, briefing; setting up experiments; in-flight footage of various experiments; crew disembark from plane; students report on experiments; Roger Eleart, head of ESA PR, gives speech.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000842

**Title:** Parabolic Flight Campaign Nov '94 tape 4

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/01/1994

**Length:** 40

**Comments:** <plain>A contribution towards European Week for Scientific Culture, this video contains images of ESA's 1994 student parabolic flight campaign [and features ESA astronauts Wubbo Ockels and Pedro Duque]. Includes: students in hangar; pre-flight interviews with students and organisers; interviews on plane with Pedro Duque; students set up experiments on plane; students get onto plane; general in-flight recordings.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000842

**Title:** Parabolic Flight Campaign Nov '94 tape 5

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/01/1994

**Length:** 34

**Comments:** <plain>A contribution towards European Week for Scientific Culture, this video contains images of ESA's 1994 student parabolic flight campaign [and features ESA astronaut Wubbo Ockels]. Includes: students climb onboard plane; students float in microgravity, various in-flight shots, experiments; debriefing; students report on their experiment debriefing by Ockels.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000845

**Title:** The Living Planet VNR

**Type:** Video Index

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 19

**Comments:** <plain>Embargoed until 06/07/99 - when the Living Planet programme will be launched, in London - this VNR summarises ESA's new Living Planet programme of Earth Observation. The aim of this programme is to build upon the success of previous programmes - such as Meteosat and ERS - with two new types of mission, named Earth Explore and Earth Watch. The VNR contains graphics to illustrate these missions, as well as contemporary and historical footage describing ESA's involvement in the global Earth Observation market.</plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000845

**Title:** The Living Planet VNR

**Type:** Video Index

**Category:** VNR

**Language** English

**Production Date** 00/00/00

**Length:** 19

**Comments:** <plain>Embargoed until 06/07/99 - when the Living Planet programme will be launched, in London - this VNR summarises ESA's new Living Planet programme of Earth Observation. The aim of this programme is to build upon the success of previous programmes - such as Meteosat and ERS - with two new types of mission, named Earth Explore and Earth Watch. The VNR contains graphics to illustrate these missions, as well as contemporary and historical footage describing ESA's involvement in the global Earth Observation market.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000846

**Title:** Le Bourget 1999 preview VNR

**Type:** Edited Video

**Category:** VNR

**Language** Natural Sound Only

**Production Date** 06/10/1999

**Length:** 15

**Comments:** <plain>This video news release was produced on 10 June 1999 to provide TV networks with a sneak preview of the pavillon of ESA, CNES and Arianespace, Europe and Space. It includes g:vs of the pavilion's exterior and interior. The exterior includes full-scale mock-ups of the Ariane 5 and Ariane 1 launchers and of Envisat. The in-door display includes the ARD capsule flight model, a 3-D multimedia show on Mars and interactive presentations.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000846

**Title:** Le Bourget 1999 preview VNR

**Type:** Edited Video

**Category:** VNR

**Language** Natural Sound Only

**Production Date** 06/10/1999

**Length:** 15

**Comments:** <plain>This video news release was produced on 10 June 1999 to provide TV networks with a sneak preview of the pavillon of ESA, CNES and Arianespace, Europe and Space. It includes q:vs of the pavilion's exterior and interior. The exterior includes full-scale mock-ups of the Ariane 5 and Ariane 1 launchers and of Envisat. The in-door display includes the ARD capsule flight model, a 3-D multimedia show on Mars and interactive presentations.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000846

**Title:** Le Bourget 1999 VNR rushes

**Type:** Edited Video

**Category:** VNR

**Language** Natural Sound Only

**Production Date** 06/10/1999

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000847

**Title:** Le Bourget 1999 preview for ESA staff

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/10/1999

**Length:** 15

**Comments:** <plain>This compilation was produced on 10 June 1999 to provide ESA staffs with a sneak preview of the joint pavillc ESA, CNES and Arianespace, Europe and Space. It include g:vs of the pavilion's exterior and interior. The exterior includes full-scale mock-ups of the Ariane 5 and Ariane 1 launchers and of Envisat. The in-door display includes the ARD capsule flight model, a 3-D multimedia show on Mars and interactive presentations.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00000848

**Title:** Solar Eclipse Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 07/01/1999

**Length:** 25

**Comments:** <plain>Resource material to cover the total solar eclipse which will occur on August 11th, 1999. Includes new animation sequences to show the mechanics of the eclipse and what to expect; various footage of the Sun, archive footage of eclipses and observers; 1960s ESRO sounding rocket experimentation; the Heos solar observation satellite the COS-B satellite, the TD1-A satellite; contemporary European satellites to monitor the Sun - SOHO [launch, animations and images], Ulysses [launch, animations, cleanroom footage, images], Cluster [animations]; views of the Earth from space.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00000848

**Title:** Solar Eclipse Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 07/01/1999

**Length:** 25

**Comments:** <plain>Resource material to cover the total solar eclipse which will occur on August 11th, 1999. Includes new animation sequences to show the mechanics of the eclipse and what to expect; various footage of the Sun, archive footage of eclipses and observers; 1960s ESRO sounding rocket experimentation; the Heos solar observation satellite the COS-B satellite, the TD1-A satellite; contemporary European satellites to monitor the Sun - SOHO [launch, animations and images], Ulysses [launch, animations, cleanroom footage, images], Cluster [animations]; views of the Earth from space.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000849

**Title:** Erasmus Inauguration 1999

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 06/28/1999

**Length:** 20

**Comments:** <plain>On 28th June 1999, ESA opened its Erasmus centre at ESTEC in the Netherlands. Erasmus has been designed as a user centre for the International Space Station [ISS] - in addition to television studio facilities, the site contains a multimedia library, virtual reality theatre and various models [including the Columbus Orbital Facility, or COF]. Broadcast from Erasmus on the inauguration day, this VNR contains the following footage: general views of the inauguration ceremony; interviews with ESA astronauts Wubbo Ockels [in English], Pedro Duque [in Spanish] and Ulf Merbold [in German]; archive footage of the construction of components for the ISS; soundbites from Mrs J.M. de Vries, Dutch State Secretary of Transport, Public Works and Water Management and Jorg Feustel-Beuchl, ESA Director of Manned Spaceflight; shots of the multimedia library and virtual reality centre; various models; graphics of the ISS and footage/graphics of the first year construction. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000850

**Title:** Apollo Compilation 99

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 07/01/1999

**Length:** 22

**Comments:** <plain>A compilation of material made to coincide with the 30th anniversary of the Apollo moon landing on July 29th, 1999. Includes: Yuri Gagarin, Kennedy's speech, the Mercury and Gemini missions, Apollo 11, Apollo 12, Apollo 14, Apollo 17, Apollo-Soyuz docking, Skylab, Spacelab and the Shuttle, and some new graphics of the Apollo 11 mission.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000850

**Title:** Apollo Compilation 99

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 07/01/1999

**Length:** 22

**Comments:** <plain>A compilation of material made to coincide with the 30th anniversary of the Apollo moon landing on July 29th, 1999. Includes: Yuri Gagarin, Kennedy's speech, the Mercury and Gemini missions, Apollo 11, Apollo 12, Apollo 14, Apollo 17, Apollo-Soyuz docking, Skylab, Spacelab and the Shuttle, and some new graphics of the Apollo 11 mission.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000851

**Title:** Rosetta VNR

**Type:** Video Index

**Category:** VNR

**Language** English

**Production Date** 07/01/1999

**Length:** 13

**Comments** <plain> On the day Europe's first deep space probe returns to Earth, ESA unveils Rosetta - its second mission to a comet. Scheduled for launch in 2003, Rosetta comprises an Orbiter, which will fly around the comet...and a lander, which will actually attach itself to the nucleus. Rosetta will travel for eight years to reach its target. It will swing twice around the Earth and once around Mars, using their gravity fields to catapult itself towards the comet - Wirtanen. Travelling through space at 130,000km per hour, Rosetta will chase the comet at close-range for two years. Ground controllers will switch on Rosetta's sensitive instruments, which will gather and send back information on the comet's size, the way it moves and the composition of its tail. Rosetta will then go into close orbit around the comet, mapping its surface from a distance of 10km. As the comet approaches the Sun it will warm up, releasing dust and vapour in its tail for analysis. The lander will then drop onto the comet's surface, gathering physical and chemical data about this primitive body made of dust and ice. As Rosetta is unveiled, its predecessor, Giotto, which in 1986 flew into the tail of Halley's comet, will be passing the Earth. The pictures and scientific data Giotto sent back placed Europe at the forefront of comet science. As the Rosetta stone unravelled the mysteries of the hieroglyphs some two hundred years ago, the Rosetta space probe should provide vital clues in deciphering the origin and destiny of the solar system. </plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000853

**Title:** 26th Parabolic Flight Campaign 1999

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** English

**Production Date:** 07/01/1999

**Length:** 18

**Comments:** <plain>A montage of ESA's 26th parabolic flight campaign, over Bordeaux-Merignac in June 1999. Arranged as: crew prepared; crew float in microgravity; various in-flight explanations - physics of foam [Adler and Kronberg], mass diffusion-induced growth with the influence of surface tension [Michels, Karapantsios, Bontozoglou], study of agglomeration of Carbon Black in microgravity [Issi and Beuken], in vivo monitoring of the mechanical environment (fractures in microgravity [Hisenkamp and Burny], the effect of a change in gravity on the dynamics of prehension and the kinematics of the upper limb during cyclic arm movements with a hand-held load [Thonnard and Willems], effect of low body negative pressure on vectocardiography, EKG and haemodynamic parameters in humans [Vaida and Miserocchi], the contributions of visual and proprioceptive information in perceptual-motor coordination of the precision grip under different gravity conditions [Savelsbergh and Camp], the vestibulo-oculomotor reflex of hypergravity raised rats in altered gravity [Oosterveld and Wubbels], real-time physiological and molecular biological measurements of osteoblastlike cells under microgravity using fluorescence techniques [Jones and Van der Sloten], microgravity effect Alamethicin pores incorporated into planar lipid bilayers [Hanke and Goldermann], data verification of Neurolab experiment E008: visuo-motor coordination during space flight [Bock, Jungling, Fowler]; general cabin views of the parabolic flight.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000853

**Title:** 26th Parabolic Flight Campaign 1999

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** English

**Production Date:** 07/01/1999

**Length:** 18

**Comments:** <plain>A montage of ESA's 26th parabolic flight campaign, over Bordeaux-Merignac in June 1999. Arranged as: crew prepared; crew float in microgravity; various in-flight explanations - physics of foam [Adler and Kronberg], mass diffusion-induced growth with the influence of surface tension [Michels, Karapantsios, Bontozoglou], study of agglomeration of Carbon Black in microgravity [Issi and Beuken], in vivo monitoring of the mechanical environment (fractures in microgravity [Hisenkamp and Burny], the effect of a change in gravity on the dynamics of prehension and the kinematics of the upper limb during cyclic arm movements with a hand-held load [Thonnard and Willems], effect of low body negative pressure on vectocardiography, EKG and haemodynamic parameters in humans [Vaida and Miserocchi], the contributions of visual and proprioceptive information in perceptual-motor coordination of the precision grip under different gravity conditions [Savelsbergh and Camp], the vestibulo-oculomotor reflex of hypergravity raised rats in altered gravity [Oosterveld and Wubbels], real-time physiological and molecular biological measurements of osteoblastlike cells under microgravity using fluorescence techniques [Jones and Van der Sloten], microgravity effect Alamethicin pores incorporated into planar lipid bilayers [Hanke and Goldermann], data verification of Neurolab experiment E008: visuo-motor coordination during space flight [Bock, Jungling, Fowler]; general cabin views of the parabolic flight.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000854

**Title:** Bourget '99: CSG Presentation

**Type:** Edited Video

**Category:** miscellaneous

**Language** M/E only

**Production Date** 06/01/1999

**Length:** 3

**Comments** <plain>A music video made for le Bourget 1999 on the subject of Europe's Spaceport, Guiana Space Centre [CSG] in Kourou.</plain>

**Keywords** CSG KOUROU

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000855

**Title:** Perseus inflight clip

**Type:** Edited Video

**Category:** miscellaneous

**Language** Mute

**Production Date** 00/00/00

**Length:** 3

**Comments** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a stay aboard the Russian space station Mir. This mission, named Perseus, was the fifth French-Russian mission to date. The video contains some onboard footage of the mission, but its use is restricted by poor quality.</plain>

**Keywords** MANNED SPACEFLIGHT,SPACE STATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000855

**Title:** Perseus inflight clip

**Type:** Edited Video

**Category:** miscellaneous

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a stay aboard the Russian space station Mir. This mission, named Perseus, was the fifth French-Russian mission to date. The video contains some onboard footage of the mission, but its use is restricted by poor quality.</plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000856

**Title:** Mars: Sample Return

**Type:** Edited Video

**Category:** miscellaneous

**Language:** Mute

**Production Date:** 06/01/1999

**Length:** 3

**Comments:** <plain>Made for display at le Bourget 1999, this video detail a proposed mission to Mars. Launched in 2005, a spacecra will release 4 lander probes, then go into orbit around Mars. Samples will be launched from the planet's surface, amd recovered by the orbiter. The space craft will then return tc Earth, jettisoning a re-entry capsule containing samples. </plain>

**Keywords:** SPACE SCIENCE,MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000860

**Title:** ESO VNR June '99

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 5

**Comments:** <plain>The European Southern Observatory is based at La Silla, a mountain which borders the south of the Atacama desert in Chile. This video is concerned with observation of the comet Wirtanen, the target of ESA's scheduled Rosetta mission - contains images of the comet, interviews, gvs' of observatory [German] with cometary observation spokesm:  
</plai

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000861

**Title:** Mars Rover Sample Return Mission

**Type:** Edited Video

**Category:** documentary,general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 5

**Comments:** <plain>In the late 1990s, NASA plans to conduct an unmanned sample-collection mission to Mars. This video depicts a possible mission scenario as follows: launch animation; two Titan 4 payloads make their way to Mars; payloads move into elliptical orbit using aerocapture technique; ascent vehicle and Rover on lunar surface; Rover collects samples, places them into ascent vehicle; vehicle makes rendezvous with orbiter, which makes its way back Earth; deployment of Earth aerocapture capsule, vehicle released into Space Station's orbit; Station's orbital manoeuvring vehicle retrieves re-entry vehicle; returned to Earth using shuttle. </plain>

**Keywords:** SPACE SCIENCE,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000862

**Title:** Fourth Planet Mars

**Type:** Video Index

**Category:** documentary,general public

**Language** English

**Production Date** 01/01/1983

**Length** 29

**Comments** <plain>[Journey Through The Solar System, episode 7] A look at what previous missions [namely Mariner] have told us about aspects of Mars such as canals and seasonal colour changes; scientists describe previous research, and motivations for further study; evolution and geology of the planet; model of Mars lander; possibilities for life/water on Mars.</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000866

**Title:** Mars: Meteorite Presentation

**Type:** Video Index

**Category:** miscellaneous

**Language** Natural Sound Only

**Production Date** 08/06/1996

**Length** 14

**Comments** <plain>Following a two-year investigation into meteorite material originating from the planet Mars, NASA scientists were able to produce results alluding to the possibility that primitive life may have existed on the Red Planet more than 3.6 billion years ago. This was based on them finding organic molecules and minerals characteristic of biological activity, along with suspected microscopic fossils. This video index contains related material as follows: -animation sequences showing the surface of Mars being struck by meteorites, water and primitive life on the planet's surface which become fossilised, rock reaches Earth as meteorite, scientists analyse rock -animation sequence is repeated -scenes of meteorite in processing lab -NASA scientists study slides of meteorite ALH84001 using high-resolution scanning electron microscope -images of possible microscopic fossils - carbonate mineral globules found in ALH84001</plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000867

**Title:** Living Planet Launch VNR

**Type:** Video Index

**Category:** VNR

**Language** Natural Sound Only

**Production Date** 06/07/1999

**Length:** 12

**Comments:** <plain>The Living Planet programme was launched in Londc on June 7th, 1999, at the Royal Society in London. This VNF gives coverage of the event. Contains - soundbites from Lc Sainsbury, chairman of the ESA Ministerial Council; soundbites Professor Duncan Wingham, UCL, head of the winning Cryosat project; soundbites Antonio Rodota, ESA Director-General; soundbites Roger Bonnet, ESA Director c Science; GVs ext/int press conference; graphics Euroskymed; graphics GOCE</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000867

**Title:** Living Planet Launch VNR

**Type:** Video Index

**Category:** VNR

**Language** Natural Sound Only

**Production Date** 06/07/1999

**Length:** 12

**Comments:** <plain>The Living Planet programme was launched in Londc on June 7th, 1999, at the Royal Society in London. This VNF gives coverage of the event. Contains - soundbites from Lc Sainsbury, chairman of the ESA Ministerial Council; soundbites Professor Duncan Wingham, UCL, head of the winning Cryosat project; soundbites Antonio Rodota, ESA Director-General; soundbites Roger Bonnet, ESA Director c Science; GVs ext/int press conference; graphics Euroskymed; graphics GOCE</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000869

**Title:** Mars: Is There Life?

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length:** 14

**Comments** <plain>A 1970s documentary which looks at the early history of Mars and the possibility of life - with a focus on the Viking missions</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00000870

**Title:** Stories of the Sun

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 07/01/1999

**Length:** 15

**Comments** <plain>Made just prior to the August 1999 Solar Eclipse, this video looks at the actions of the Sun and the instruments used to study it. Chapters are organised as follows: LANTERN OF THE WORLD: an overview covering the solar wind and Europe's solar spacecraft UNDER THE SUN: the structure and actions of the Sun SOLAR TANTRUMS: solar cycles, coronal mass ejections, effects of space-based technologies BLOWING IN THE SOLAR WIND: a description of the solar wind, and findings of the spacecraft which have examined it COVER THE LIGHT: SOHO images of coronal mass ejections, comets hitting the Sun MAGNETIC MINEFIELDS: the Sun's 'magnetic carpet' SOLAR ARMADA: a more detailed look at missions Ulysses, SOHO and Cluster SONG OF THE SUN: how scientists have been able to study the ways in which the Sun works, including recording the sound it makes</plain>

**Keywords** ULYSSES,SPACE SCIENCE,SOHO,CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000870

**Title:** Stories of the Sun

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 07/01/1999

**Length** 15

**Comments** <plain>Made just prior to the August 1999 Solar Eclipse, this video looks at the actions of the Sun and the instruments used to study it. Chapters are organised as follows: LANTERN OF THE WORLD: an overview covering the solar wind and Europe's solar spacecraft UNDER THE SUN: the structure and actions of the Sun SOLAR TANTRUMS: solar cycles, coronal mass ejections, effects of space-based technologies BLOWING IN THE SOLAR WIND: a description of the solar wind, and findings of the spacecraft which have examined it COVER THE LIGHT: SOHO images of coronal mass ejections, comets hitting the Sun MAGNETIC MINEFIELDS: the Sun's 'magnetic carpet' SOLAR ARMADA: a more detailed look at missions Ulysses, SOHO and Cluster SONG OF THE SUN: how scientists have been able to study the ways in which the Sun works, including recording the sound it makes</plain>

**Keywords** ULYSSES,SPACE SCIENCE,SOHO,CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000871

**Title:** Brussels 1999: VNR

**Type:** Video Index

**Category** VNR

**Language** Natural Sound Only

**Production Date** 05/01/1999

**Length** 13

**Comments** <plain>A tape of background material made for the ESA Ministerial Conference, Brussels, May 1999. After the A-roll contains: Earth Explorer graphics, Earth Watch graphics, satellite telecom graphics, Ariane 4 and 5 launches, Europe and the ISS, ESA Toulouse conference, ESA HQ Paris, ESA DG Antonio Rodota, Europe's Spaceport Kourou, ESA member states, images of Earth and Sun. </plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000872

**Title:** Hubble Space Telescope: Repair Report

**Type:** Edited Video

**Category:** VNR

**Language:** French

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>In 1993, the NASA space shuttle Endeavour linked with the Hubble Space Telescope. During this mission (STS 61) replacement of one of the solar arrays, which power the telescope, was performed - crew included ESA astronaut Nicollier. This video contains a new s release on the event.</plain>

**Keywords:** MANNED SPACEFLIGHT,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000876

**Title:** STS-93 Chandra: launch postponed

**Type:** Edited Video

**Category:** outside broadcast

**Language:** French and English

**Production Date:** 07/20/1999

**Length:** 55

**Comments:** <plain>NASA's STS-93 mission will launch the Chandra telescope to conduct its X-ray exploration of the Universe. Amongst crew members will be CNES astronaut Michel Tognini, whose previous experience includes the 1992 Antares mission to Mir. The shuttle mission will be commanded for the first time by a woman, Eileen Collins. Presented by Dominique Detain, this live broadcast incorporates NASA feeds of the shuttle Columbia on the launchpad; VT on the exploration of the X-ray universe by XMM and Chandra; sounddown, sequence cutoff, gvs control room, ESA postmortem and credits, then switch to NASA TV gvs shuttle on launchpad. </plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000876

**Title:** STS-93 Chandra: launch postponed

**Type:** Edited Video

**Category:** outside broadcast

**Language:** French and English

**Production Date:** 07/20/1999

**Length:** 55

**Comments:** <plain>NASA's STS-93 mission will launch the Chandra telescope to conduct its X-ray exploration of the Universe. Amongst crew members will be CNES astronaut Michel Tognini, whose previous experience includes the 1992 Antares mission to Mir. The shuttle mission will be commanded for the first time by a woman, Eileen Collins. Presented by Dominique Detain, this live broadcast incorporates NASA feeds of the shuttle Columbia on the launchpad; VT on the exploration of the X-ray universe by XMM and Chandra; countdown, sequence cutoff, gvs control room, ESA postmortem and credits, then switch to NASA TV gvs shuttle on launchpad. </plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000877

**Title:** XMM / Chandra - English

**Type:** Edited Video

**Category:** documentary,general public

**Language:** English

**Production Date:** 01/07/1999

**Length:** 3

**Comments:** <plain>NASA's Chandra X-ray telescope was launched in July 1994 - ESA plans to launch an X-ray telescope of its own, XMM, later this year. This video, using extensive animations and cleanroom footage, describes some of the phenomena which produce X-rays in the Universe - and how XMM and Chandra will study them in individual, complementary ways. </plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000877

**Title:** XMM / Chandra - French

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 01/07/1999

**Length:** 3

**Comments:** <plain>NASA's Chandra X-ray telescope was launched in July1994 - ESA plans to launch an X-ray telescope of its own XMM, later this year. This video, using extensive animations and cleanroom footage, describes some of the phenomena which produce X-rays in the Universe - and how XMM and Chandra will study them in individual, complementary ways.</plain>

**Keywords** XMM,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000877

**Title:** XMM / Chandra - English

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 01/07/1999

**Length:** 3

**Comments:** <plain>NASA's Chandra X-ray telescope was launched in July1994 - ESA plans to launch an X-ray telescope of its own XMM, later this year. This video, using extensive animations and cleanroom footage, describes some of the phenomena which produce X-rays in the Universe - and how XMM and Chandra will study them in individual, complementary ways.</plain>

**Keywords** XMM,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000877

**Title:** XMM / Chandra - French

**Type:** Edited Video

**Category:** documentary,general public

**Language** French

**Production Date** 01/07/1999

**Length:** 3

**Comments:** <plain>NASA's Chandra X-ray telescope was launched in July 1994 - ESA plans to launch an X-ray telescope of its own XMM, later this year. This video, using extensive animations and cleanroom footage, describes some of the phenomena which produce X-rays in the Universe - and how XMM and Chandra will study them in individual, complementary ways.</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000879

**Title:** NASA Cassini animations

**Type:** Video Index

**Category:** index,chapter-structured

**Language** Mute

**Production Date** 00/00/00

**Length:** 10

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Delta rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. The probe has been developed to parachute through the atmosphere of Titan and analyse pressure, temperature and chemical constituency. The probe will also send back information on the type of surface it finally encounters. This video, which relates to Cassini's Earth flyby on August 17th, 1999 contains the following footage: Cassini trajectory animation; animation comparing altitudes of Cassini flyby with shuttle, Hubble, Space Station; Earth flyby animation; Venus animation; Jupiter flyby animation; animation of Cassini rocket firing over Saturn's ring plane; Huygens animation [ESA] showing detachment of probe, parachute drop, Titan surface; Cassini launch footage.</plain>

**Keywords:** HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000880

**Title:** Mapping the Martian World

**Type:** Edited Video

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain>NASA's Mars Observer mission is due for launch in September 1992. This documentary gives an overview of the and previous, missions to Mars. </plain>

**Keywords:** SPACE SCIENCE,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000881

**Title:** Mars Observer Launch

**Type:** Edited Video

**Category:** outside broadcast

**Language** English

**Production Date** 00/00/00

**Length:** 11

**Comments:** <plain>NASA coverage of the Titan 111 launch of the Mars Observer mission on September 25th, 1992. </plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000882

**Title:** Mars Mission animation compilation

**Type:** Edited Video

**Category:** various

**Language** English

**Production Date** 00/00/00

**Length:** 24

**Comments:** <plain>A compilation of NASA videos related to studying the planet Mars, as follows: Mars Global Surveyor: surveying the Martian world; formation of Venus, Earth and Mars; reason for going to Mars; late 1996 launch, mission, aerobraking to surface, and the study of the Martian climate. 10:17:00:00 Mars Pathfinder - an animation of the Mars Pathfinder mission 10:24:58:00 Mars The Movie: Mars flyover [produced by multi-mission image processing] 10:30:06:00 Mars precision landing, August 7th 1996 - a typical Mars landing sequence [mute] 10:33:38:00 Mars Global Surveyor deployment animation[mute] </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000883

**Title:** Mars Climate Observer launch

**Type:** Edited Video

**Category:** outside broadcast

**Language** English

**Production Date** 12/11/1998

**Length:** 7

**Comments:** <plain>Coverage of the launch of NASA's Mars Climate Orbiter spacecraft [one element of the Mars Global Surveyor '98 project, the other being Mars Polar Lander], by Boeing Delta 11 from Cape Canaveral on December 11th, 1998. Much of the footage recorded by onboard camera. </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000884

**Title:** STS-93 Crewtraining

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 06/28/2009

**Length:** 39

**Comments:** <plain>NASA's STS-93 mission will launch the Chandra telescope to conduct its X-ray exploration of the Universe. Amongst crew members will be CNES astronaut Michel Tognini, whose previous experience includes the 1992 Antares mission to Mir. The shuttle mission will be commanded for the first time by a woman, Eileen Collins. Footage as follows: bailout training, emergency egress training, Earth observations classroom training, simulator training, T-38 departure, Chandra deploy training, shuttle amateur radio experiment, CCT bail out crew compartment training, Southwest Research Ultraviolet Imaging System [SWUIS]. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000887

**Title:** NASA Chandra Index

**Type:** Video Index

**Category:** various

**Language:** Natural Sound Only

**Production Date:** 07/07/1999

**Length:** 89

**Comments:** <plain>NASA's STS-93 mission will launch the Chandra telescope to conduct its X-ray exploration of the Universe. Amongst crew members will be CNES astronaut Michel Tognini, whose previous experience includes the 1992 Antares mission to Mir. The shuttle mission will be commanded for the first time by a woman, Eileen Collins. This index contains an animation of how the mission will work, and the Chandra science briefing of July 7th 1999.</plain>

**Keywords:** SPACE SCIENCE,SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000887

**Title:** NASA Chandra Index

**Type:** Video Index

**Category:** various

**Language:** Natural Sound Only

**Production Date:** 07/07/1999

**Length:** 89

**Comments:** <plain>NASA's STS-93 mission will launch the Chandra telescope to conduct its X-ray exploration of the Universe. Amongst crew members will be CNES astronaut Michel Tognini, whose previous experience includes the 1992 Antares mission to Mir. The shuttle mission will be commanded for the first time by a woman, Eileen Collins. This index contains an animation of how the mission will work, and the Chandra science briefing of July 7th 1999.</plain>

**Keywords:** SPACE SCIENCE,SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 0000889

**Title:** The Mir Compilation '99

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** M/E only

**Production Date:** 08/16/1999

**Length:** 14

**Comments:** <plain>A precursor to the International Space Station, Mir has borne testimony to Russia's innovation in the field of manned spacflight for thirteen years. On August 28th 1999 the final crew - Jean-Pierre Haignere, Viktor Afansyev, Ser Avdeyev - will vacate the station. This index gives an overview of the history of Mir, with particular emphasis on European involvement. </plain>

**Keywords:** MANNED SPACEFLIGHT,HISTORICAL MATERIAL,EURO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000891

**Title:** Ariane 4: vol 120 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 10/01/1999

**Length:** 6

**Comments:** <plain>The Ariane 4 launch of Koreasat [vol. 120] took place on September 4th, 1999. This tape contains a summary of the whole campaign in French Guiana, with footage as follows: launcher components unloaded from ship; assembly of various launcher components; launcher rolled to final assembly building, closure of cryogenic arms; satellite unloaded from plane; satellite fuelling; satellite lowered onto base, application of etiquettes; final assembly building rolled away, night launch. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000892

**Title:** Ariane 4: vol 118 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 09/01/1999

**Length:** 8

**Comments:** <plain>The Telkom 1 satellite was launched by Ariane 4 on August 12th, 1999. This video contains a summary of the whole campaign as follows - launcher parts unloaded from ship, assembly of launcher components, launcher rolled out to final assembly building, closure of cryogenic arms, satellite unloaded from ship and unboxed, satellite lowered onto base, satellite rolled out and hoisted to top of rocket, night launch.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000893

**Title:** Ariane 4: vol 121 campaign video

**Type:** Edited Video

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 09/25/1999

**Length:** 9

**Comments:** <plain>The Telstar 7 satellite was launched on September 25th, 1999. This video contains an overview of the launch campaign, arranged as follows - arrival of MN Toucan vessel; launcher lifted to vertical position in assembly building; integration of various stages; launcher rolled to final assembly building; closure of cryogenic arms; satellite unloaded from plane and transported to Guiana Space Centre; satellite unboxed, encased and fuelled; satellite lowered onto base; application of logos; final assembly building wheeled away, countdown and night launch.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000894

**Title:** STS-96 Post-Flight Presentation

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>NASA's 11-day Discovery mission STS-96 was launched on June 6th, 1999. The first flight to dock to the International Space Station [ISS], it functioned as a logistics and resupply mission. STS-96 carried the Russian Cargo Crane [STRELA] to the ISS, and also deployed the STARSHINE atmospheric research satellite. This tape contains a summary of the mission, arranged as follows: shuttle on launchpad, crew leave operations and checkout building; daybreak launch, roll and SRB separation [tank fall to Earth]; opening of payload bay doors; various shots of crew members in flight deck; astronaut floating through ISS modules catches and bites apple; view of Earth; crew checks out EVA Extra-Vehicular Activity equipment; robot arm in use; view of shuttle from arm camera; view of ISS through shuttle docking camera; docking procedure; EVA astronauts suited up; EVA work on the ISS; crew inside station perform maintenance; crew drink ball of juice through straws; food preparation; crew tumble, etc [inc. ballet-dancing]; undocking; views of station; various Earthviews [inc. Northern Lights], deployment of Starshine glitterball-like satellite; preparation of shuttle for landing; flight deck interior during re-entry; night landing; crew photo line-up. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000896

**Title:** XMM Compilation October 1999

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 10/27/1999

**Length:** 13

**Comments:** <plain>ESA's XMM [X-ray Multi-Mirror Observatory] is set for launch by Ariane 5 on December 9th 1999. The most sensitive X-ray satellite yet, it will carry three advanced X-ray telescopes that will look at millions of X-ray sources in the Universe. Each telescope bears 58 high-precision mirrors which reflect X-rays onto sensors - giving XMM capacity for long, uninterrupted observations at very high levels of sensitivity. This index provides a background to XMM's pre-launch campaign, and is organised as follows: construction footage, arrival of XMM at Kourou, Ariane 5 launch, XMM graphics, CSG/Kourou atmosphere shots.</plain>

**Keywords:** XMM,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000896

**Title:** XMM Compilation October 1999

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 10/27/1999

**Length:** 13

**Comments:** <plain>ESA's XMM [X-ray Multi-Mirror Observatory] is set for launch by Ariane 5 on December 9th 1999. The most sensitive X-ray satellite yet, it will carry three advanced X-ray telescopes that will look at millions of X-ray sources in the Universe. Each telescope bears 58 high-precision mirrors which reflect X-rays onto sensors - giving XMM capacity for long, uninterrupted observations at very high levels of sensitivity. This index provides a background to XMM's pre-launch campaign, and is organised as follows: construction footage, arrival of XMM at Kourou, Ariane 5 launch, XMM graphics, CSG/Kourou atmosphere shots.</plain>

**Keywords:** XMM,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000897

**Title:** STS-95: Post-Flight Duque Version

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. Crew included Senator John Glenn and ESA astronaut Pedro Duque. This video contains some of the highlights of the mission with particular emphasis on Duque.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000898

**Title:** Mir Crew: Final Landing

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 08/28/1999

**Length:** 30

**Comments:** <plain>After thirteen years in space, Mir was finally evacuated on August 28th, 1999. This tape contains footage of the final crew - Jean-Pierre Haignere, Viktor Afansyev, Serge Avdeyev - upon their return to Earth. As follows: helicopter shots of capsule landing, crew removed from capsule, photo shoot, Haignere walked out of recovery tent and into van, Haignere walked from van into helicopter, welcome ceremony at airport, Haignere helped onto plane; interview with Lionel Suchet, CNES chief of Perseus project; interview with Claudie Andre-Deshays, CNES back-up astronaut; interview with Jean-Pierre Haignere and Gerard Brachet, CNES director-general; astronauts greeted by cake and press as they get off plane. Followed up by 'the Mir Compilation', ESA prod. no. 000889.</plain>

**Keywords:** MANNED SPACEFLIGHT,HISTORICAL MATERIAL,EURO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000898

**Title:** Mir Crew: Final Landing

**Type:** Edited Video

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 08/28/1999

**Length:** 30

**Comments:** <plain>After thirteen years in space, Mir was finally evacuated on August 28th, 1999. This tape contains footage of the final crew - Jean-Pierre Haignere, Viktor Afansyev, Serge Avdeyev - upon their return to Earth. As follows: helicopter shots of capsule landing, crew removed from capsule, photo shoot, Haignere walked out of recovery tent and into van, Haignere walked from van into helicopter, welcome ceremony at airport, Haignere helped onto plane; interview with Lionel Suchet, CNES chief of Perseus project; interview with Claudie Andre-Deshays, CNES back-up astronaut; interview with Jean-Pierre Haignere and Gerard Brachet, CNES director-general; astronauts greeted by cake and press as they get off plane. Followed up by 'the Mir Compilation', ESA prod. no. 000889.</plain>

**Keywords:** MANNED SPACEFLIGHT,HISTORICAL MATERIAL,EURO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000902

**Title:** STS-103 VNR - English

**Type:** Video Index

**Category:** index,A and B roll

**Language:** English

**Production Date:** 11/24/1999

**Length:** 21

**Comments:** <plain>Due for launch in December 1999, the STS-103 mission will be the third flight to service and repair the Hubble Space Telescope. ESA astronauts onboard the shuttle will be Jean-Francois Clervoy and Claud Nicollier. The mission is especially urgent following a failure of the fourth gyroscope out of six in Hubble's pointing system, which it needs to set sights on various objects in the Universe. The VNR contains two A-rolls, one focussing on the astronauts and other concerned with scientific aspects of the mission. B-roll footage includes Hubble graphics and real in-orbit images, shuttle launch, coverage of previous missions STS-61 and STS-82, Nicollier and Clervoy training with NASA, and interviews with astronauts and Hubble scientists [including some Italian and German soundbites]. </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT,HUBBLE S

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000902

**Title:** STS-103 VNR - Francais

**Type:** Video Index

**Category:** index,A and B roll

**Language:** French

**Production Date:** 11/24/1999

**Length:** 22

**Comments:** <plain>Due for launch in December 1999, the STS-103 mission will be the third flight to service and repair the Hubble Space Telescope. ESA astronauts onboard the shuttle will include Jean-Francois Clervoy and Claud Nicollier. The mission is especially urgent following a failure of the fourth gyroscope out of six in Hubble's pointing system, which it needs to set sights on various objects in the Universe. The VNR contains two A-rolls, one focussing on the astronauts and other concerned with scientific aspects of the mission. B-roll footage includes Hubble graphics and real in-orbit images, shuttle launch, coverage of previous missions STS-61 and STS-82, Nicollier and Clervoy training with NASA, and interviews with astronauts and Hubble scientists [including some Italian and German soundbites]. </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT,HUBBLE S

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000906

**Title:** XMM VNR

**Type:** Video Index

**Category:** index,A and B roll

**Language:** English

**Production Date:** 12/06/1999

**Length:** 18

**Comments:** <plain>ESA's XMM [X-ray Multimirror] satellite is due for launch on December 10th, 1999. Using three modules made up of densely-packed gold mirrors, it will capture X-rays with a greater capacity than any previous telescope, enabling it to study violent events in the Universe. The XMM launch will be the first commercial launch of Ariane 5, Europe's new launcher. The index contains XMM graphics and construction footage, various graphics and images of even in the Universe, background material on Exosat and Ariane and English and French interviews.</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000907

**Title:** STS-103: Claude Nicollier Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000908

**Title:** STS-103: Gerhard Thiele Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000909

**Title:** STS-103: Mike Foale Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000910

**Title:** STS-103: Curtis Brown Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000911

**Title:** STS-103: John Grunsfeld Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000914

**Title:** STS-103: Steven Smith Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000915

**Title:** STS-99: Kavandi Crew Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000916

**Title:** STS-99: Mohri Crew Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000917

**Title:** STS-99: Voss Crew Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000918

**Title:** STS-99: Gorie Crew Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000919

**Title:** STS-99: Kregel Crew Interviews

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000920

**Title:** Ariane 4: vol 124 Campaign Video

**Type:** Edited Video

**Category:** live-action recordings

**Language** M/E only

**Production Date** 12/01/1999

**Length:** 10

**Comments:** <plain>On December 4th 1999, Ariane 4 carried the Helios 1B/ Clementine spacecraft into orbit [Vol. 124]. This video contains highlights of the launch campaign as follows: arrival of launcher components on MN Toucan vessel; launcher put together in assembly building; pre-flight assembly of Clementine satellite; unloading [from plane] of Helios 1B, assembly; launcher rolled out to final assembly building; satellite fuelling; payload bay doors shut, application of logic launch, separation of SRBs. </plain>

**Keywords** ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000923

**Title:** Cluster 2

**Type:** Video Index

**Category:** VNR

**Language** Natural Sound Only

**Production Date** 11/24/1999

**Length:** 18

**Comments:** <plain>Cluster -ESA's mission to study space weather - suffered a major setback in 1996, when the four spacecraft were destroyed in the unsuccessful first launch of Ariane 5. Three years on, the Cluster satellites are once again ready for flight into orbit, and will be launched using two Russian Soyuz rockets in mid 2000. This index covers background material on the Cluster mission, and is arranged as follows: D graphics Cluster mission [including animation of the Earth magnetic field], gvs' preparation of four Cluster 2 satellites, final assembly/ integration work on one Cluster 2 spacecraft, Soyuz launch from the Baikonur cosmodrome, presentation Cluster 1 from 1995 [English V/O, Cluster 1 development and integration graphics, images Ariane 501 failure and recovery of Cluster debris, Ariane 501 post-failure conference, graphical annotated explanation of failure.</plain>

**Keywords** SPACE SCIENCE,CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000923

**Title:** Cluster 2

**Type:** Video Index

**Category:** VNR

**Language:** Natural Sound Only

**Production Date:** 11/24/1999

**Length:** 18

**Comments:** <plain>Cluster -ESA's mission to study space weather - suffered a major setback in in 1996, when the four spacec were destroyed in the unsuccessful first launch of Ariane ! Three years on, the Cluster satellites are once again ready flight into orbit, and will be launched using two Russian Soy rockets in mid 2000. This index covers background material on the Cluster mission, and is arranged as follows: D graphics Cluster mission [including animation of the Earth magnetic field], gvs' preparation of four Cluster 2 satellites, final assembly/ integration work on one Cluster 2 spacecra Soyuz launch from the Baikonur cosmodrome, presentation Cluster 1 from 1995 [English V/O, Cluster 1 development an integration graphics, images Ariane 501 failure and recover of Cluster debris, Ariane 501 post-failure conference, grapl annotated explanation of failure. </plain>

**Keywords:** SPACE SCIENCE,CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000924

**Title:** XMM Campaign Video

**Type:** Edited Video

**Category:** VNR

**Language:** French and English

**Production Date:** 00/00/00

**Length:** 9

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. This highly-animated series provides a pre-launch background summary of the mission, and is arranged as follows - AN OBSERVATORY IN SPACE - why we need XMM, what it wi do, how it will work; construction of XMM'; a look at the viol Universe NEWS OF EXPLODED STARS - w hat forms a supernova, and how XMM will study them GIANT BLACK HOLES - a description of black holes and XMM's capacity tc look at the X-rays they emit. </plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000925

**Title:** tracker 2000 28/10/99

**Type:** Edited Video

**Category:** multimedia VNR

**Language** English

**Production Date** 10/28/1999

**Length** 25

**Comments** <plain>Designed for multimedia broadcast, tracker 2000 is a magazine covering contemporary ESA topics. Arranged in A/B-roll format, this edition includes: The University of Dublin theory of formation of the Universe due to gamma ray bursts - with graphics and real images of the Universe and interviews, and covering ESA's integral, XMM and Rosetta projects; The Leonids display 1999 - with graphics, interviews, images of previous display; The search for life on other planets - background on Huygens, Mars Express, Rosetta, Smart 1 [images include animations of each mission and ESOC ground control centre] </plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000926

**Title:** Ariane 504/XMM live broadcast

**Type:** Edited Video

**Category:** outside broadcast

**Language** French and English

**Production Date** 12/10/1999

**Length** 98

**Comments** <plain>ESA's XMM [X-ray Multimirror Telescope] was launched from Guiana Space Centre, Kourou on December 10th, 1999. This tape contains a recording of the live event broadcast.</plain>

**Keywords** XMM,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000926

**Title:** Ariane 504/XMM live broadcast

**Type:** Edited Video

**Category:** outside broadcast

**Language:** French and English

**Production Date:** 12/10/1999

**Length:** 98

**Comments:** <plain>ESA's XMM [X-ray Multimirror Telescope] was launched from Guiana Space Centre, Kourou on December 10th, 1999. This tape contains a recording of the live event broadcast.</plain>

**Keywords:** XMM,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000928

**Title:** Ariane 4: vol. 121 launch highlights

**Type:** Edited Video

**Category:** miscellaneous

**Language:** English

**Production Date:** 09/29/1999

**Length:** 21

**Comments:** <plain>The 121st launch of Ariane 4 took place on Saturday, September 25th, 1999. An Ariane 44LP [equipped with 2 liquid and 2 solid strap-on boosters] lifting off from the Guiana Space Centre - Europe's Spaceport in Kourou - placed into geostationary transfer orbit the US-American telecommunications satellite, TELSTAR. This tape contains highlights of the live videotransmission of the launch, produced by Arianespace. Arranged as follows - launch replay, Arianespace News, gvs images launcher on launch table, Ariane V121 launcher campaign, Telstar 7 satellite campaign, launch tower withdrawal, gvs Jupiter 2 and CDL launch range and control centres, final countdown through liftoff and first few minutes of flight, separation stage 1 and extinction 3rd stage, separation Telstar 7, soundbites Jean-Marie Luton. </plain>

**Keywords:** ARIANE 1 - 4,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000930

**Title:** Fokker Space ERA

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>Cleanroom footage of construction of the European Robotic Arm at Fokker. Including: electrical integration of the bench; first movement of the joints via the ERA Control Computer; integration of ERA in the flat floor facility.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000931

**Title:** Leonids 1999 VNR

**Type:** Video Index

**Category:** VNR

**Language:** English

**Production Date:** 11/16/1999

**Length:** 12

**Comments:** <plain>The Leonids meteor shower occurs every 33 years so, and is formed by the debris trail of the comet Tempel-Tuttle as it approaches the Sun and warms up. This year - 1999 - the Leonids are expected over Europe. VNR arranged as follows: Leonids 3D graphics, Leonids observations 1999, soundbite Walter Flury [ESA] on danger for spacecraft, ground-based spacecraft out of control, soundbite David Koschny [ESA] on Leonids observations. </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000932

**Title:** Ariane 4: vol 123 videotransmission

**Type:** Edited Video

**Category:** miscellaneous

**Language:** English

**Production Date:** 11/15/1999

**Length:** 7

**Comments:** <plain>The GE-4 satellite was placed into orbit on November 13th, 1999 by Ariane 4 launch vol. 123. This tape contains highlights of the live broadcast of the event as follows: gvs launcher on launch table; launch replay; magazine item Arianespace News; gvs ground controllers at Jupiter 2; CD 2 launch range control centre; final countdown through lift-Ariane 4 and first minutes of flight; separation 2nd and 3rd stages; extinction 3rd stage, separation GE4, soundbites at launch. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000933

**Title:** Ariane 4: vol. 122 launch highlights

**Type:** Edited Video

**Category:** miscellaneous

**Language:** French

**Production Date:** 10/19/1999

**Length:** 12

**Comments:** <plain>On Tuesday, October 19th 1999, the 122nd Ariane launch [vol. 122] lifted off from Europe's Spaceport in Kourou, French Guiana. The launcher successfully placed into geostationary transfer orbit the US telecommunications satellite Orion 2. Orion 2 will be positioned at 12 degrees West longitude. It will offer video communications services and high-speed internet connectivity, and private multimedia services linking both sides of the Atlantic Ocean. Orion-2 carries a total of 38Ku-band transponders, providing coverage of North America as far west as Cleveland and Atlanta, the majority of South America, Europe to the Ural Mountains plus North Africa, the United Arab Emirates and South Africa. This tape contains highlights of the Arianespace live coverage of the launch event, as follows: gvs launcher on launch table, launch replay, Arianespace news, Ariane 5 engine improvements, gvs ground controllers at Jupiter 2 CDL 2 launch range control centre, final countdown through liftoff of Ariane 4 and first minutes of flight; separation stage 2, extinction stage 3, separation Orion 2; soundbites [English] Jacques Rossignol, Arianespace, Larry Baugher, Space Systems Loral. Commentary [French] by Dominic Detain and Guy Dubua. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000934

**Title:** Tracker 2000 01/09/99

**Type:** Edited Video

**Category:** multimedia VNR

**Language** French and English

**Production Date** 09/01/1999

**Length:** 25

**Comments** <plain>Designed for multimedia broadcast, tracker 2000 is a magazine covering contemporary ESA topics. Arranged in A/B-roll format, this edition includes: A look at Hubble Space Telescope's achievements including: Hubble Space Telescope graphics; stills of Jupiter's aurora; stills of galaxy clusters; interviews in French and English with Jean Paul Kneib (Astronomer from the Observatoire Midi-Pyrenees) and Jean-Claude Gerard (Planetary physicist from University of Leige-Belgium. ISO (ESA's infra red space telescope) studies the formation of planet cores; includes ISO graphics: Jupiter, Saturn, Uranus, Neptune graphics. Explanation of colour-coded, comet collision classification system, Torino Scale. Includes asteroid belt graphics; comet graphics; telescope in operation. XMM shipping to French Guyana in preparation for Ariane 5 launch. Includes XMM graphics; black hole graphics. Giotto new s update including Giotto space craft graphics; first Giotto pictures of nucleus of Haley's comet; Gregg-Skjellerup comet graphics; charged particle graphics. Cassini-Huygens new s update includes: Huygens space probe graphics; graphics of Saturn's large moon, Titan; cleanroom footage.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000934

**Title:** tracker 2000 01/09/99

**Type:** Edited Video

**Category:** index,chapter-structured

**Language:** French and English

**Production Date:** 09/01/1999

**Length:** 25

**Comments:** <plain>Designed for multimedia broadcast, tracker 2000 is a magazine covering contemporary ESA topics. Arranged in A/B-roll format, this edition includes: A look at Hubble Space Telescope's achievements including: Hubble Space Telescope graphics; stills of Jupiter's aurora; stills of galaxy clusters; interviews in French and English with Jean Paul Kneib (Astronomer from the Observatoire Midi-Pyrenees) and Jean-Claude Gerard (Planetary physicist from University of Leige-Belgium. ISO (ESA's infra red space telescope) studies the formation of planet cores; includes ISO graphics: Jupiter, Saturn, Uranus, Neptune graphics. Explanation of colour-coded, comet collision classification system, Torino Scale. Includes asteroid belt graphics; comet graphics; telescope in operation. XMM shipping to French Guyana in preparation for Ariane 5 launch. Includes XMM graphics; black hole graphics. Giotto new s update including Giotto space craft graphics; first Giotto pictures of nucleus of Haley's comet; Gregg-Skjellerup comet graphics; charged particle graphics. Cassini-Huygens new s update includes: Huygens space probe graphics; graphics of Saturn's large moon, Titan; cleanroom footage.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000936

**Title:** XMM Launch TV Studio Event Part 2/2

**Type:** Edited Video

**Category:** various

**Language:** French, German and English

**Production Date:** 12/10/1999

**Length:** 23

**Comments:** <plain>ESA's XMM [X-ray Multimirror Telescope] was launched from Guiana Space Centre, Kourou on December 10th, 1999. This tape contains a recording of the live event broadcast. Studio launch of XMM project at ESOC, introduced by Howard Nye and Martin Ramson. Includes pre launch speeches by Antonio Rodota (Director General ESA) and Roger Bonnet (Director Science ESA); replay of XMM launch footage.</plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000936

**Title:** XMM Launch TV Studio Event Part 3/3

**Type:** Edited Video

**Category:** various

**Language** French, German and English

**Production Date** 12/10/1999

**Length:** 23

**Comments** <plain>ESA's XMM [X-ray Multimirror Telescope] was launched from Guiana Space Centre, Kourou on December 10th, 1999. This tape contains a recording of the live event broadcast. Studio launch of XMM project at ESOC, introduced by Howard Nye and Martin Ramson. Includes pre launch speeches by Antonio Rodota (Director General ESA) and Roger Bonnet (Director Science ESA); replay of XMM launch footage.</plain>

**Keywords** XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000937

**Title:** XMM Launch TV Studio Event Part 1/2

**Type:** Edited Video

**Category:** live-action recordings

**Language** French, German and English

**Production Date** 12/10/1999

**Length:** 63

**Comments** <plain>ESA's XMM [X-ray Multimirror Telescope] was launched from Guiana Space Centre, Kourou on December 10th, 1999. This tape contains a recording of the live event broadcast. Studio launch of XMM project at ESOC, introduced by Howard Nye and Martin Ramson. Includes pre launch speeches, interviews and live broadcast link to XMM launch.</plain>

**Keywords** XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000937

**Title:** XMM Launch TV Studio Event Part 1/2

**Type:** Edited Video

**Category:** live-action recordings

**Language:** French, German and English

**Production Date:** 12/10/1999

**Length:** 63

**Comments:** <plain>ESA's XMM [X-ray Multimirror Telescope] was launched from Guiana Space Centre, Kourou on December 10th, 1999. This tape contains a recording of the live event broadcast. Studio launch of XMM project at ESOC, introduced by Howard Nye and Martin Ramson. Includes pre-launch speeches, interviews and live broadcast link to XMM launch.</plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000939

**Title:** STS-99 [SRTM]: Pre Launch Footage - English

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 01/20/1999

**Length:** 19

**Comments:** <plain>This Video News Release provides pre-launch background footage on Gerhard Thiele and the STS-99 Mission, in A-roll / B-roll format. On 31 January 2000, the Space Shuttle Endeavour is launched on a mission to complete the most extensive topographic survey of the Earth surface to date. The Shuttle Radar Topography Mission (SRTM) - on which ESA astronaut Gerhard Thiele is a crew member - will collect radar data, using a technique called SAR interferometry, providing scientists with a three-dimensional model of 80% of the planet's surface. These will be the first 3D maps of developing countries and large areas of sparsely populated desert and forest. Benefits will include improved forecasting of environmental conditions, increase navigational safety, help with urban planning and road construction. The SRTM payload, a complex, double/twin radar system, is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). This tape includes SRTM Mission graphics; footage of integration and testing of X-SAR radar and antennae mast at NASA; the SRTM data processing and mission planning centre, Oberpfaffenhofen, Germany; Gerhard Thiele during astronaut training; images from STS-59 [SRL-1] mission; images from STS-68 [SRL-2] mission; live footage of Space Shuttle Endeavour launch and landing; interferogram of Mount Cameroon; 3-D graphics of Mars [NASA]; various interviews with Gerhard Thiele. </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000939

**Title:** STS-99 [SRTM]: Pre Launch Footage-English

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 01/20/1999

**Length:** 19

**Comments:** <plain>This Video News Release provides pre-launch background footage on Gerhard Thiele and the STS-99 Mission, in A-roll / B-roll format. On 31 January 2000, the Space Shuttle Endeavour is launched on a mission to complete the most extensive topographic survey of the Earth surface to date. The Shuttle Radar Topography Mission (SRTM) - on which ESA astronaut Gerhard Thiele is a crew member - will collect radar data, using a technique called SAR interferometry, providing scientists with a three-dimensional model of 80% of the planet's surface. These will be the first 3D maps of developing countries and large areas of sparsely populated desert and forest. Benefits will include improved forecasting of environmental conditions, increase navigational safety, help with urban planning and road construction. The SRTM payload is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). This tape includes SRTM Mission graphics; footage of integration and testing of X-SAR radar and antennae mast at NASA; the SRTM data processing and mission planning centre, Oberpfaffenhofen, Germany; Gerhard Thiele during astronaut training; images from STS-59 [SRL-1] mission; images from STS-68 [SRL-2] mission; live footage of Space Shuttle Endeavour launch and landing; interferogram of Mount Cameroon; 3-D graphics of Mars [NASA]; various interviews with Gerhard Thiele. </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000939

**Title:** STS-99 [SRTM]: Pre Launch Footage - German

**Type:** Edited Video

**Category:** VNR

**Language:** German

**Production Date:** 01/20/1999

**Length:** 19

**Comments:** <plain>This Video News Release provides pre-launch background footage on Gerhard Thiele and the STS-99 Mission, in A-roll / B-roll format. [German version] On 31 January 2000, the Space Shuttle Endeavour is launched on mission to complete the most extensive topographic survey the Earth's surface to date. The Shuttle Radar Topography Mission (SRTM) - on which ESA astronaut Gerhard Thiele is a crew member - will collect radar data, using a technique called SAR interferometry, providing scientists with a three-dimensional model of 80% of the planet's surface. These will be the first 3D maps of developing countries and large areas of sparsely populated desert and forest. Benefits will include improved forecasting of environmental conditions, increase navigational safety, help with urban planning and road construction. The SRTM payload, a complex, double/twin radar system, is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). This tape includes SRTM Mission graphics; footage of integration and testing of X-SAR radar and antennae mast at NASA; the SRTM data processing and mission planning centre, Oberpfaffenhofen, Germany; Gerhard Thiele during astronaut training; images from STS-59 [SRL-1] mission; images from STS-68 [SRL-2] mission; live footage of Space Shuttle Endeavour launch and landing; interferogram of Mount Cameroon; 3-D graphics of Mars [NASA]; various interviews with Gerhard Thiele. </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000939

**Title:** STS-99 [SRTM]: Pre Launch Footage-German

**Type:** Edited Video

**Category:** VNR

**Language:** German

**Production Date:** 01/20/1999

**Length:** 19

**Comments:** <plain>This Video News Release provides pre-launch background footage on Gerhard Thiele and the STS-99 Mission, in A-roll / B-roll format. [German version] On 31 January 2000, the Space Shuttle Endeavour is launched on mission to complete the most extensive topographic survey the Earth's surface to date. The Shuttle Radar Topography Mission (SRTM) - on which ESA astronaut Gerhard Thiele is a crew member - will collect radar data, using a technique called SAR interferometry, providing scientists with a three-dimensional model of 80% of the planet's surface. These will be the first 3D maps of developing countries and large areas of sparsely populated desert and forest. Benefits will include improved forecasting of environmental conditions, increase navigational safety, help with urban planning and road construction. The SRTM payload, a complex, double/twin radar system, is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). This tape includes SRTM Mission graphics; footage of integration and testing of X-SAR radar and antennae mast at NASA; the SRTM data processing and mission planning centre, Oberpfaffenhofen, Germany; Gerhard Thiele during astronaut training; images from STS-59 [SRL-1] mission; images from STS-68 [SRL-2] mission; live footage of Space Shuttle Endeavour launch and landing; interferogram of Mount Cameroon; 3-D graphics of Mars [NASA]; various interviews with Gerhard Thiele. </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000942

**Title:** Stories from XMM-English

**Type:** Edited Video

**Category:** index,chapter-structured

**Language:** English

**Production Date:** 00/00/00

**Length:** 25

**Comments:** <plain>ESA's XMM [X-ray Multi Mirror Observatory] was launched by Ariane 5 on December 9th 1999. The most sensitive X-ray satellite yet, it will carry three advanced x-ray telescopes that will look at millions of X-ray sources in the Universe. Each telescope bears 58 high-precision mirrors which reflect X-rays onto sensors giving XMM capacity for long, uninterrupted observations at very high levels of sensitivity. This index provides background information on XMM technology, the construction of XMM, and its role with space science. It contains some highly-animated graphics, live pre-launch footage, and instructive commentary in English, in a series of 9 chapters arranged as follows: AN OBSERVATORY IN SPACE: why we need XMM, what it will do, how it will work. [This chapter also found in XMM Campaign Video] NEWS OF EXPLODED STARS - how a supernova is formed, and how XMM will study them. [This chapter also found in XMM Campaign Video] WAYS OF LOOKING - a description of XMM' technology, and its process of observation. GIANT BLACK HOLES - a description of black holes and XMM's capacity to look at the rays they emit. GOLDEN EYES - the construction of XMM. VAMPIRE STARS - a description of vampire stars X RAY VISION - a description of XMM's instruments, and what they can do, including the Reflection Grating Spectrometer(RGS) and the European Photon Imaging Camera(EPIC). THE MAKING OF XMM - includes XMM construction footage; X-ray testing and calibration; spacecraft construction; vibratic testing at ESTEC; transportation of XMM to Kourou. THE BIG PICTURE - an overview of possibilities for space observation and research using XMM. See Comments for full contents.</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000942

**Title:** Stories from XMM-English

**Type:** Edited Video

**Category:** index,chapter-structured

**Language:** English

**Production Date:** 00/00/00

**Length:** 25

**Comments:** <plain>ESA's XMM [X-ray Multi Mirror Observatory] was launched by Ariane 5 on December 9th 1999. The most sensitive X-ray satellite yet, it carries three advanced x-ray telescopes that will look at millions of X-ray sources in the Universe. Each telescope bears 58 high-precision mirrors which reflect X-rays onto sensors giving XMM capacity for long, uninterrupted observations at very high levels of sensitivity. This index provides background information on XMM technology, the construction of XMM, and its role with space science. It contains some highly-animated graphics, live pre-launch footage, and instructive commentary in English, in a series of 9 chapters arranged as follows: AN OBSERVATORY IN SPACE: why we need XMM, what it will do, how it will work. [This chapter also found in XMM Campaign Video] NEWS OF EXPLODED STARS - how a supernova is formed, and how XMM will study them. [This chapter also found in XMM Campaign Video] WAYS OF LOOKING - a description of XMM' technology, and its process of observation. GIANT BLACK HOLES - a description of black holes and XMM's capacity to look at the rays they emit. GOLDEN EYES - the construction of XMM. VAMPIRE STARS - a description of vampire stars X RAY VISION - a description of XMM's instruments, and what they can do, including the Reflection Grating Spectrometer(RGS) and the European Photon Imaging Camera(EPIC). THE MAKING OF XMM - includes XMM construction footage; X-ray testing and calibration; spacecraft construction; vibratic testing at ESTEC; transportation of XMM to Kourou. THE BIG PICTURE - an overview of possibilities for space observation and research using XMM. See Comments for full contents.</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000945

**Title:** XMM Newton: First Pictures Announcement

**Type:** Edited Video

**Category:** VNR

**Language:** English / Spanish

**Production Date:** 02/04/2000

**Length:** 22

**Comments:** <plain>XMM, the world's largest and most powerful X-ray telescope, was launched from Kourou, French Guiana, on 7 December 1999, by an Ariane 5 launcher. The mission's scientific data is being received, processed and dispatched to astronomers by ESA's XMM Science Operations Centre in Villafranca, Spain. The first three images are to be displayed on 9 February 2000. The pictures will show parts of the sky never seen before in X-ray light. XMM has been renamed the XMM Newton Observatory by ESA scientists. This VNR provides an overview of XMM and the announcement of forthcoming XMM images. It contains two A-rolls with commentary in English and Spanish. The B-roll footage includes: XMM graphics; Ariane 5 launch of XMM; Control and Operations Centre, Darmstadt, Germany; XMM cleanroom footage; black hole animation; starfield animation; various images from Rosat German X-ray Observatory; various supernova remnants; expansion cloud from Supernova 1987A; various shots of XMM Science Centre, Villafranca, Spain, ESOC, Villafranca, Spain; interviews with Roger Bonnet (ESA Science Director), Robert Laine (XMM Project Manager) in English and French; interview with Daniel Ponz (XMM Science Centre) in Spanish; interview with Fred Jansen (XMM Project Scientist) in English; interview with Keith Mason (Mullard Space Science Lab) in English. Full shotlist available. </plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000945

**Title:** XMM Newton: First Pictures Announcement

**Type:** Edited Video

**Category:** VNR

**Language:** English / Spanish

**Production Date:** 02/04/2000

**Length:** 22

**Comments:** <plain>XMM, the world's largest and most powerful X-ray telescope, was launched from Kourou, French Guiana, on December 1999, by an Ariane 5 launcher. The mission's scientific data is being received, processed and dispatched to astronomers by ESA's XMM Science Operations Centre in Villafranca, Spain. The first three images are to be displayed on 9 February 2000. The pictures will show parts of the sky never seen before in X-ray light. XMM has been renamed the XMM Newton Observatory by ESA scientists. This VNR provides an overview of XMM and the announcement of forthcoming XMM images. It contains two A-rolls with commentary in English and Spanish. The B-roll footage includes: XMM graphics; Ariane 5 launch of XMM; Control and Operations Centre, Darmstadt, Germany; XMM cleanroom footage; black hole animation; starfield animation; various images from Rosat German X-ray Observatory; various supernova remnants; expansion cloud from Supernova 1987A; various shots of XMM Science Centre, Villafranca, Spain, ESOC, Villafranca, Spain; interviews with Roger Bonnet (ESA Science Director), Robert Laine (XMM Project Manager) in English and French; interview with Daniel Ponz (XMM Science Centre) in Spanish; interview with Fred Jansen (XMM Project Scientist) in English; interview with Keith Mason (Mullard Space Science Lab) in English. Full shotlist available. </plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000946

**Title:** Perseus: Index

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 09/01/1999

**Length:** 30

**Comments:** <plain>This video index was produced by the French Space Agency, CNES, for the French-Russian mission Perseus, which was launched from the Baikonur Cosmodrome on February 20, 1999. Russian commander Viktor Afanassiev, Slovak Ivan Bella, and ESA astronaut Jean-Pierre Haignere (with back-up French astronaut, Claudie Andre-Deshays) were carried into space in a Soyuz capsule onboard a Saly launcher, bound for a six month stay on Russian space station Mir. Onboard, Haignere carried out European experiments in microgravity, two of which have been developed by ESA. This video is a compilation of footage from the mission including the launch; live footage, taken from the Russian Soyuz capsule, of the docking with Mir; scientific experiments onboard Mir; eva footage (extravehicular activity); everyday life onboard Mir [image quality poor]; CADMOS (Toulouse) following the mission; astronauts disembarking from Mir; landing; press reception astronauts; interviews in French with Lionel Suchet (Director Perseus Project), Claudie Andre-Deshays, Jean-Pierre Haignere, Gerard Brachet (Director-General CNES); arrival and reception at Star City (space training centre), near Moscow. Shotlist available. </plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000947

**Title:** SRTM Compilation

**Type:** Edited Video

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 08/25/1999

**Length:** 50

**Comments:** <plain>This video, provided by the German space agency, DLR, contains a compilation of background footage for the STS-99 [SRTM] Mission, which is due to be launched by Space Shuttle Endeavour, from the Kennedy Space Centre, on 11 February, 2000. The Shuttle Radar Topography Mission, on which ESA astronaut Gerhard Thiele is one of the crew members, will collect radar data, using a technique called SAR interferometry, providing scientists with a 3-D model of 80 percent of the planet's surface, including sparsely populated areas of desert and forest. The objective is to demonstrate the technology for obtaining high-resolution digital topographic mapping of the Earth. Benefits will include improved forecasting of environmental conditions, increase navigational safety, help with urban planning and road construction. The SRTM payload is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). This tape includes footage of the two previous shuttle missions, STS-59 and STS-68 in April and September, 1994, on which SIR-C and X-SAR radar technology was tested; live footage of dawn shuttle launch from Kennedy Space Centre [NASA]; exterior shots of X-SAR payload from shuttle [NASA]; video footage from shuttle of volcanic eruption of Kljutschewskaja in Kamtschatka, Russia [NASA]; various 3-D topographic images constructed from SRTM data including Bolivian rainforest, Rwanda, Pacific atoll, Rio Negro in Brazil, Ecuador landscape, Saudi Arabian sanddunes, the Alps, Sahara [NASA]; footage of Gerhard Thiele with other crew members training for STS-99 mission interviews in German with Klaus Berge (Project Director-Spacetravel, DLR), Marian Werner (SRTM/X-SAR Project Leader), Dr. Christine Schmuilius (DLR-Institute for Hochfrequenztechnik); SRTM Mission graphics; interferogram of Mt. Cameroon, West Africa, using data collected on the SRL-1 and SRL-2 missions [NASA]; Death Valley flythrough using radar results [NASA]; California flyover using radar results [NASA]; various footage of SRTM data processing and mission planning centre, Oberpfaffenhofen, Germany; various footage of integration and testing of X-SAR radar and mast at NASA; various views of the earth from shuttle [NASA]; landing of shuttle [NASA]. Copyright clearance needed for NASA images and video footage.</plain>

**Keywords:** SHUTTLE MISSIONS,REMOTE SENSING,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000948

**Title:** XMM + Robert Laine Interview

**Type:** Edited Video

**Category:** index,chapter-structured

**Language:** French and English

**Production Date:** 07/15/1999

**Length:** 13

**Comments:** <plain>ESA's XMM [X-ray Multi Mirror Mission] was launched by Ariane 5 on December 9th 1999. The most sensitive X-ray satellite yet, it will carry three advanced x-ray telescopes that will look at millions of x-ray sources in the Universe. The XMM mission will help scientists solve a number of cosmic mysteries, ranging from the enigmatic black holes to the origins of the Universe itself. The XMM Project team is based at the ESTEC Technical Centre in Noordwijk, Netherlands. This video contains a pre-launch interview with Robert Laine (XMM Project Manager), recorded in French and English, on 7th July 1999; and B-roll containing the final assembly of XMM (recorded 26 May 1999), and XMM transport to the acoustic testchamber (recorded 5th July 1999). </plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000949

**Title:** STS-103 NASA TV Broadcast Video File

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 11/09/1999

**Length:** 47

**Comments:** <plain>This video contains an overview of the Hubble Servicing Missions, downloaded from NASA TV's Video File broadcast on 9 November 1999. Includes highlights from STS-61 The STS-103 mission, launched by Space Shuttle Discovery, from the Kennedy Space Centre, on 20 December 1999, is the third flight to service and repair the Hubble Space Telescope. Crew members include ESA astronauts, Claude Nicollier and Jean-Francois Clervoy. Also included are files on two further NASA projects. The index is organised into chapters (items) arranged as follows: Hubble Servicing Mission; Trifid Nebular:Star Nursery [replays]; Airborne Information for Lateral Spacing [AILS]; NASA's Ultra Long Duration Balloon. </plain>

**Keywords:** SPACE SCIENCE,HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00000950

**Title:** ISS / Kibo Video Crip 1998-1999

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 01/01/2000

**Length:** 49

**Comments:** <plain>This video provides an overview of the development of the Japanese Experiment Module [JEM] 'Kibo', Japan's first manned space activities facility and NASDA's contribution to the International Space Station [ISS] programme. Footage is arranged as follows: graphics of Kibo's construction; Kibo's name and logo announcement ceremony in Tokyo, April 1998; the Multiuser Experiment Facilities #2 (#1) and rack crew footage filmed at Tsukuba Space Center, May 1998; Experiment Logistics Module-Pressurized Section [ELM-PS (EM)] modal survey test at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Systems Works, September 1998; Experiment Logistics Module-Exposed Section [ELM-ES (EM)] thermal balance test at Tsukuba Space Center, January 1999; Airlock Functional Test at Mitsubishi Heavy Industries Ltd, Nagoya Aerospace Systems Works, July 1999; Pressurized Module [PM] outfitting at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Systems Works, October 1998; Pressurized Module [PM] leak test at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Works, October 1998; Experiment Logistics Module-Pressurized Section [ELM-PS] Flight Crew Interface Test [FCIT] at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Works, November 1999; Manipulator main arm functional and performance test at Tsukuba Space Center, November 1999; EVA (extravehicular activities) #4 training at Tsukuba Space Center, October 1998; ISS Japanese astronaut candidates basic training-opening ceremony at Tsukuba Space Center, April 1999; ISS Japanese astronaut candidates basic training in general survival techniques, Russia, July 1999.  
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**Keywords:** SPACE STATIONS,NASDA GENERAL,INTERNATIONAL S

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000950

**Title:** ISS / Kibo Video Crip 1998-1999

**Type:** Video Index

**Category:** index,chapter-structured

**Language:** Natural Sound Only

**Production Date:** 01/01/2000

**Length:** 49

**Comments:** <plain>This video provides an overview of the development of the Japanese Experiment Module [JEM] 'Kibo', Japan's first manned space activities facility and NASDA's contribution to the International Space Station [ISS] programme. Footage is arranged as follows: graphics of Kibo's construction; Kibo's name and logo announcement ceremony in Tokyo, April 1998; the Multiuser Experiment Facilities #2 (#1) and rack crew footage filmed at Tsukuba Space Center, May 1998; Experiment Logistics Module-Pressurized Section [ELM-PS (EM)] modal survey test at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Systems Works, September 1998; Experiment Logistics Module-Exposed Section [ELM-ES (EM)] thermal balance test at Tsukuba Space Center, January 1999; Airlock Functional Test at Mitsubishi Heavy Industries Ltd, Nagoya Aerospace Systems Works, July 1999; Pressurized Module [PM] outfitting at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Systems Works, October 1998; Pressurized Module [PM] leak test at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Works, October 1998; Experiment Logistics Module-Pressurized Section [ELM-PS] Flight Crew Interface Test [FCIT] at Mitsubishi Heavy Industries Ltd., Nagoya Aerospace Works, November 1999; Manipulator main arm functional and performance test at Tsukuba Space Center, November 1999; EVA (extravehicular activities) #4 training at Tsukuba Space Center, October 1998; ISS Japanese astronaut candidates basic training-opening ceremony at Tsukuba Space Center, April 1999; ISS Japanese astronaut candidates basic training in general survival techniques, Russia, July 1999.  
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**Keywords:** SPACE STATIONS,NASDA GENERAL,INTERNATIONAL S

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00000993

**Title:** Remsat A and B-Roll

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 11/22/1999

**Length:** 16

**Comments:** <plain>REMSAT (Real-time Emergency Management via Satellite) has been developed by ESA to demonstrate the applications of newly emerging and established space technology, specifically the use of satellite information and communication, in the management of emergency situations such as fire, earthquakes or floods. ESA conducted a pilot demonstration of REMSAT in September, 1999, teaming up with Canadian space company, MacDonalD Dettweiler and the British Columbia Forest Service, responsible for fighting forest fires in this area of Canada. It is anticipated that the B.C. REMSAT program will bridge the gap between satellite service providers and emergency management end-users, and prove the potential of the REMSAT system for other types of emergency. This video, in A and B-roll format, provides general background footage on REMSAT and its pilot demonstration in Canada. The A-roll features an interview and commentary in English with Emmanuel Rammos, ESA REMSAT Project Manager. The B-roll, with international sound, includes graphics of established telecommunications satellite coverage of globe; graphics of future telecommunications satellite employment; graphics of global positioning satellite network; graphics of the collection and transmission of data/images by geostationary satellite; D animation of ERS-2 in action, ESA's earth observation satellite, including ERS instrument ATSR (Along-Track Scanning Radiometer), with its facility for monitoring global temperatures; SAR imaging technology; SAR images of earth's surface texture [bad sound edit]; ATSR-2 images of land with visible areas of fire. General views of REMSAT training and demonstration with British Columbia Forest Service, including introductory talk on REMSAT with BCFS staff; REMSAT system design chart; operations control centre terminal (CCT); interior footage of BCFC Regional Fire Centre with demonstrations of REMSAT computer control capabilities; general views of fire fighters with planes on airfield, and pan right to pilot "intermediate" satellite mobile terminal (MT), used to communicate directly with operation control centre; controlled demonstration of airborne firefighting technique using REMSAT; introduction to hand-held wireless terminals to be used at scene of fire; testing of portable terminals by field operatives. [Sound edit bad on B-roll. Commentary cuts mid-sentence at 01:07:39:00, 01:08:35:11 01:09:29:00] </plain>

**Keywords:** REMSAT, TELECOMMUNICATIONS, SATELLITE NAVIGATION

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00000993

**Title:** Remsat A and B-Roll

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 11/22/1999

**Length:** 16

**Comments:** <plain>REMSAT (Real-time Emergency Management via Satellite) has been developed by ESA to demonstrate the applications of newly emerging and established space technology, specifically the use of satellite information and communication, in the management of emergency situations such as fire, earthquakes or floods. ESA conducted a pilot demonstration of REMSAT in September, 1999, teaming up with Canadian space company, MacDonalD Dettweiler and the British Columbia Forest Service, responsible for fighting forest fires in this area of Canada. It is anticipated that the B.C. REMSAT program will bridge the gap between satellite service providers and emergency management end-users, and prove the potential of the REMSAT system for other types of emergency. This video, in A and B-roll format, provides general background footage on REMSAT and its pilot demonstration in Canada. The A-roll features an interview and commentary in English with Emmanuel Rammos, ESA REMSAT Project Manager. The B-roll, with international sound, includes graphics of established telecommunications satellite coverage of globe; graphics of future telecommunications satellite employment; graphics of global positioning satellite network; graphics of the collection and transmission of data/images by geostationary satellite; D animation of ERS-2 in action, ESA's earth observation satellite, including ERS instrument ATSR (Along-Track Scanning Radiometer), with its facility for monitoring global temperatures; SAR imaging technology; SAR images of earth's surface texture [bad sound edit]; ATSR-2 images of land with visible areas of fire. General views of REMSAT training and demonstration with British Columbia Forest Service, including introductory talk on REMSAT with BCFS staff; REMSAT system design chart; operations control centre terminal (CCT); interior footage of BCFC Regional Fire Centre with demonstrations of REMSAT computer control capabilities; general views of fire fighters with planes on airfield, and pan right to pilot "intermediate" satellite mobile terminal (MT), used to communicate directly with operation control centre; controlled demonstration of airborne firefighting technique using REMSAT; introduction to hand-held wireless terminals to be used at scene of fire; testing of portable terminals by field operatives. [Sound edit bad on B-roll. Commentary cuts mid-sentence at 01:07:39:00, 01:08:35:11 01:09:29:00] </plain>

**Keywords:** REMSAT, TELECOMMUNICATIONS, SATELLITE NAVIGATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001011

**Title:** XMM / Ariane 5 Post Launch VNR

**Type:** Edited Video

**Category:** VNR

**Language** French and English

**Production Date** 12/10/1999

**Length:** 6

**Comments** <plain>XMM, the world's largest and most powerful X-ray telescope, was launched from Kourou, French Guiana, on December 1999, by an Ariane 5 launcher. The mission's scientific data is being received, processed and dispatched to astronomers by ESA's XMM Science Operations Centre in Villafranca, Spain. This video provides a short compilation of live broadcast footage, interview soundbites, and new 3-D graphics of the launch of the XMM telescope on the first commercial Ariane 5. The edited footage is arranged as follows: 3-D graphics of XMM launch on Ariane 504; general views of launcher before launch, VIPs and guests; general views of launch range ground controllers; final countdown, off and tracking shot of flight; announcement of XMM separation and reactions; soundbite by Roger Bonnet, ESA Science Director; general views of XMM satellite ground controllers; announcement of first XMM signal and general views of reactions; soundbite by Antonio Rodota, ESA Director General. </plain>

**Keywords** ARIANE 5,XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001011

**Title:** XMM / Ariane 5 Post Launch VNR

**Type:** Edited Video

**Category:** VNR

**Language** French and English

**Production Date** 12/10/1999

**Length:** 6

**Comments** <plain>XMM, the world's largest and most powerful X-ray telescope, was launched from Kourou, French Guiana, on December 1999, by an Ariane 5 launcher. The mission's scientific data is being received, processed and dispatched to astronomers by ESA's XMM Science Operations Centre in Villafranca, Spain. This video provides a short compilation of live broadcast footage, interview soundbites, and new 3-D graphics of the launch of the XMM telescope on the first commercial Ariane 5. The edited footage is arranged as follows: 3-D graphics of XMM launch on Ariane 504; general views of launcher before launch, VIPs and guests; general views of launch range ground controllers; final countdown, off and tracking shot of flight; announcement of XMM separation and reactions; soundbite by Roger Bonnet, ESA Science Director; general views of XMM satellite ground controllers; announcement of first XMM signal and general views of reactions; soundbite by Antonio Rodota, ESA Director General. </plain>

**Keywords** ARIANE 5,XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001011

**Title:** XMM / Ariane 5 Post Launch VNR

**Type:** Edited Video

**Category:** VNR

**Language** French and English

**Production Date** 12/10/1999

**Length:** 7

**Comments** <plain>XMM, the world's largest and most powerful X-ray telescope, was launched from Kourou, French Guiana, on December 1999, by an Ariane 5 launcher. The mission's scientific data is being received, processed and dispatched to astronomers by ESA's XMM Science Operations Centre in Villafranca, Spain. This video provides a short compilation of live broadcast footage, interview soundbites, and new 3-D graphics of the launch of the XMM telescope on the first commercial Ariane 5. The edited footage is arranged as follows: 3-D graphics of XMM launch on Ariane 504; general views of launcher before launch, VIPs and guests; general views of launch range ground controllers; final countdown, off and tracking shot of flight; announcement of XMM separation and reactions; soundbite by Roger Bonnet, ESA Science Director; general views of XMM satellite ground controllers; announcement of first XMM signal and general views of reactions; soundbite by Antonio Rodota, ESA Director General. </plain>

**Keywords** ARIANE 5,XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001012

**Title:** STS-103 Post Flight Crew Presentation

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 02/03/2000

**Length:** 16

**Comments:** <plain>The STS-103 shuttle mission was launched on 20 December 1999, from the Kennedy Space Centre, and is the third flight to service and repair the Hubble Space Telescope, a joint NASA/ESA project. Crew members include ESA astronauts Claude Nicollier and Jean-Francois Clervoy. Other STS-103 crew members were: Curtis L. Brown, commander; Scott J. Kelly, pilot; Steven L. Smith, mission specialist; C. Michael Foale, mission specialist; John M. Grunsfeld, mission specialist. This video provides a post flight summary of the mission, as follows: crew suited up; pressure checks on space suits; crew leave operations and checkout building; daytime views of launch pad; crew strapped into position for launch; night view of launch pad; night launch; ignition of main engines; ignition of solid rocket motors; view inside cockpit at launch; booster separation; view of external tank ejection; opening of payload doors; jet firings; checking robotic arms; view of earth from shuttle; EVA suit check; views of Hubble Space Telescope; mechanical contact with Hubble; berthing of telescope on payload bay; (EVA 1) astronauts replace Hubble's three Reaction Wheel Assemblies (RWAs), each containing two gyroscopes, inside telescope; footage of Hubble from shuttle; (EVA 2) opening of bay and replacement of Hubble's main computer by Foale and Nicollier; exchange of a Fine Guidance Sensor used to point Hubble at objects observed; tension during spacewalk whilst sliding sensor into place; storing of FGS in orbital replacement carrier for return to earth; views from shuttle of Bird Island and Kennedy Space Center; (EVA 3) installation of new radio transmitter and data tape recorder; thermal insulation blankets outside of Hubble replaced; Clervoy releases Hubble with robotic arm; Discovery space shuttle pulls away slowly from Hubble; shot of crew member waving in Santa Claus hat; astronauts stow equipment away as preparation for landing; footage of everyday activities on board shuttle; closing of payload doors; night landing sequence including thermal imaging footage; exterior footage of Shuttle landing at Kennedy Space Center; crew walk around Discovery. </plain>

**Keywords:** HUBBLE SPACE TELESCOPE,MANNED SPACEFLIGHT,S

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001012

**Title:** STS-103 Post Flight Crew Presentation

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 02/03/2000

**Length:** 16

**Comments:** <plain>The STS-103 shuttle mission was launched on 20 December 1999, from the Kennedy Space Centre, and is the third flight to service and repair the Hubble Space Telescope, a joint NASA/ESA project. Crew members include ESA astronauts Claude Nicollier and Jean-Francois Clervoy. Other STS-103 crew members were: Curtis L. Brown, commander; Scott J. Kelly, pilot; Steven L. Smith, mission specialist; C. Michael Foale, mission specialist; John M. Grunsfeld, mission specialist. This video provides a post flight summary of the mission, as follows: crew suited up; pressure checks on space suits; crew leave operations and checkout building; daytime views of launch pad; crew strapped into position for launch; night view of launch pad; night launch; ignition of main engines; ignition of solid rocket motors; view inside cockpit at launch; booster separation; view of external tank ejection; opening of payload doors; jet firings; checking robotic arms; view of earth from shuttle; EVA suit check; views of Hubble Space Telescope; mechanical contact with Hubble; berthing of telescope on payload bay; (EVA 1) astronauts replace Hubble's three Reaction Wheel Assemblies (RWAs), each containing two gyroscopes, inside telescope; footage of Hubble from shuttle; (EVA 2) opening of bay and replacement of Hubble's main computer by Foale and Nicollier; exchange of a Fine Guidance Sensor used to point Hubble at objects observed; tension during spacewalk whilst sliding sensor into place; storing of FGS in orbital replacement carrier for return to earth; views from shuttle of Bird Island and Kennedy Space Center; (EVA 3) installation of new radio transmitter and data tape recorder; thermal insulation blankets outside of Hubble replaced; Clervoy releases Hubble with robotic arm; Discovery space shuttle pulls away slowly from Hubble; shot of crew members waving in Santa Claus hats; astronauts stow equipment away as preparation for landing; footage of everyday activities on board shuttle; closing of payload doors; night landing sequence including thermal imaging footage; exterior footage of Shuttle landing at Kennedy Space Center; crew walk around Discovery. </plain>

**Keywords:** HUBBLE SPACE TELESCOPE,MANNED SPACEFLIGHT,S

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001051

**Title:** STS-99 Crew Training

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 01/25/2000

**Length:** 40

**Comments:** <plain>The STS-99 Shuttle Radar Topography Mission (SRTM) was launched by Space Shuttle Endeavour, from Kennedy Space Center, on 11 February 2000. Crew members were Kevin Kregel, Commander (NASA), Dominic Gorie, Pilot (NASA), and Mission Specialists, Janet Kavandi (NASA), Janice Voss (NASA), Mamoru Mohri (NASDA), and ESA astronaut Gerhard Thiele, on his first ever space mission. The main objective of SRTM is to operate from space a very complex radar system designed for cartography of the Earth in three dimensions. The radar bounces signals off the Earth's surface: these signals are received by two onboard antenna systems and combined by computers at a ground facility to produce precise 3-D images. Because the shuttle flies over most of the globe's surface, the data acquired will generate the most complete topographic map of Earth's land surface ever produced, covering an area between the southern tip of Greenland and South Georgia, close to the Antarctic Circle. SRTM will build on technology used during two shuttle flights of the Spaceborne Imaging Radar-C/X-Band Synthetic Aperture Radar (SIR-C/X-SAR). These high detailed digital models of the Earth will be used by scientists to study flooding, erosion, land-slide hazards, earthquakes, ecological zones, weather forecasts, and climate change. Other possible civilian uses include optimizing locations for cellular phone towers and improving topographic maps for backpackers, firefighters, and geologists. SRTM is an international project led by the United States National Image and Mapping Agency (NIMA) and NASA, with the participation of the German Aerospace Centre (DLR), Dornier Satellitensysteme, Germany, and the Italian Space Agency (ASI). This video provides a compilation of footage on crew training for the STS-99 mission. It includes: post-landing egress training [01:00:18:00]; SRTM deploy and mapping activities [01:13:14:00]; HDTV camera training [01:19:41:00]; pre and post EVA (extra vehicular activity) training [01:21:19:00]; ascent simulation training [01:27:51:00]; crew at JPL with payload [01:35:27:00]; crew photo session [01:36:33:00].

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**Keywords:** MANNED SPACEFLIGHT, SHUTTLE MISSIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001071

**Title:** Ariane: 20 Years 1979-1999

**Type:** Video Index

**Category:** live-action recordings

**Language** ME only

**Production Date** 01/01/2000

**Length:** 10

**Comments** <plain>A series of images which documents the history of 1 highly successful Ariane series of launchers, 1979 - 1999, with titles in French and English. This video index uses footage, recorded primarily at "Europe's Spaceport" in Kourou, French Guiana, arranged as follows: Ariane 1 first launch attempt, launch aborted; LO1 launch, 9 days later, 1979; first double launch with SYLDA, 1982; L6 launch 1983; first Arianespace commercial launch of Spacenet 1 (USA) on Vol 9, 1984; first Ariane 3 launch, Vol 10, 1984; first space probe launch (Giotto) on Vol 14, 1985; first launch into polar orbit, with Spot 1 and Viking, on Vol 16, 1986; first launch from ELA-2 of Vol 17, 1986; first Ariane 4 launch, Vol 22, 1988; first Ariane 5 launch, of Cluster 1 on Vol 88, failure of guidance system and explosion, 1996; first Ariane 5 commercial launch, Vol 119, 1999, with XMM Observatory payload. Launch footage is accompanied by relevant stills. Attention: Sound commences [01:30:00:00] 15 seconds before first picture.</plain>

**Keywords** HISTORICAL MATERIAL,LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001112

**Title:** History of Cluster 1

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** English

**Production Date** 11/23/1999

**Length** 12

**Comments** <plain>This video contains background footage on the loss of the first Cluster mission, launched by Ariane 501. On 4 June 1996, four scientific satellites, Cluster, exploded 36 seconds after lift-off, as the first Ariane 5 launcher that should have put them into orbit tilted away from its nominal path and broke apart. Ten years of work on this research tool to study the Sun / Earth interaction in three dimensions was lost. In March 1997 ESA decided to rebuild the original Cluster mission. This video includes images of the development and integration of the original Cluster satellites, the roll-out and launch of Ariane 501, the launch failure and the recovery of Cluster debris from the swamps of French Guiana. It also includes footage from the presentation of the results of the independent enquiry into the failure, and a sequence of graphics explaining what happened as the launcher's navigation system underwent a software error. The sequence of footage is arranged as follows: Graphic presentation of the Cluster mission, from June 1995, with English commentary. 3-D graphics of Cluster 1. Cluster 1 development and integration. Images from live videotransmissions showing the failure of the Ariane 501 launch. Launcher and Cluster debris fallout and recovery. Press conference with the presentation of results of the enquiry into the failure of Ariane 501. Graphic sequence on reasons for the failure of Ariane 501, with English commentary. Sound quality uneven. </plain>

**Keywords** CLUSTER,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001112

**Title:** History of Cluster 1

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** English

**Production Date** 11/23/1999

**Length** 12

**Comments** <plain>This video contains background footage on the loss of the first Cluster mission, launched by Ariane 501. On 4 June 1996, four scientific satellites, Cluster, exploded 36 seconds after lift-off, as the first Ariane 5 launcher that should have placed them into orbit tilted away from its nominal path and broke apart. Ten years of work on this research tool to study the Sun / Earth interaction in three dimensions was lost. In March 1997 ESA decided to rebuild the original Cluster mission. This video includes images of the development and integration of the original Cluster satellites, the roll-out and launch of Ariane 501, the launch failure and the recovery of Cluster debris from the swamps of French Guiana. It also includes footage from the presentation of the results of the independent enquiry into the failure, and a sequence of graphics explaining what happened as the launcher's navigation system underwent a software error. The sequence of footage is arranged as follows: Graphic presentation of the Cluster mission, from June 1995, with English commentary. 3-D graphics of Cluster 1. Cluster 1 development and integration. Images from live videotransmissions showing the failure of the Ariane 501 launch. Launcher and Cluster debris fallout and recovery. Press conference with the presentation of results of the enquiry into the failure of Ariane 501. Graphic sequence on reasons for the failure of Ariane 501, with English commentary. Sound quality uneven. </plain>

**Keywords** CLUSTER,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001113

**Title:** Cluster 2 Roll-out

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** Mute / Natural Sound

**Production Date** 11/24/1999

**Length:** 8

**Comments** <plain>ESA's Cluster 2 is a replacement for the original Cluster mission, which was lost during the first test flight of Ariane 5 in June 1996. The four spacecraft, flying in formation between 19000 and 119000km above the Earth, will study the interaction between solar wind and the Earth's atmosphere in deep detail, to obtain three-dimensional measurements of phenomena which occur in the immediate surroundings of our planet. The four spacecraft will be launched in pairs by two Soyuz launch vehicles in mid-2000. Mission control will be performed by ESA/ESOC European Space Operations Centre in Darmstadt, Germany. For at least two years the instruments on board the Cluster spacecraft will provide European scientists with insights into the influence of the Sun on our planet's environment. This video contains background footage on the Cluster 2 satellite and its preparation for launch in 2000. Contents are as follows: 3-D graphics on Cluster mission, the fleet of four spacecraft and the solar wind. G/V's of the preparation of four Cluster 2 satellites for the roll-out to the media on 24 November, 1999, at IABG in Ottobrunn, near Munich. (Recorded 19 November, 1999). Final assembly and integration work on one of Cluster 2 spacecraft at IABG, Ottobrunn (Recorded 18 November, 1999) Soyuz launch from the Baikonur Cosmodrome in Kazakhstan, Russia </plain>

**Keywords** CLUSTER,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001113

**Title:** Cluster 2 Roll-out

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** Mute / Natural Sound

**Production Date** 11/24/1999

**Length:** 8

**Comments** <plain>ESA's Cluster 2 is a replacement for the original Cluster mission, which was lost during the first test flight of Ariane 5 in June 1996. The four spacecraft, flying in formation between 19000 and 119000km above the Earth, will study the interaction between solar wind and the Earth's atmosphere in deep detail, to obtain three-dimensional measurements of phenomena which occur in the immediate surroundings of our planet. The four spacecraft will be launched in pairs by two Soyuz launch vehicles in mid-2000. Mission control will be performed by ESA/ESOC European Space Operations Centre in Darmstadt, Germany. For at least two years the instruments on board the Cluster spacecraft will provide European scientists with insights into the influence of the Sun on our planet's environment. This video contains background footage on the Cluster 2 satellite and its preparation for launch in 2000. Contents are as follows: 3-D graphics on Cluster mission, the fleet of four spacecraft and the solar wind. G/Vs' of the preparation of four Cluster 2 satellites for the roll-out to the media on 24 November, 1999, at IABG in Ottobrunn, near Munich. (Recorded 19 November, 1999). Final assembly and integration work on one of Cluster 2 spacecraft at IABG, Ottobrunn (Recorded 18 November, 1999) Soyuz launch from the Baikonur Cosmodrome in Kazakhstan, Russia </plain>

**Keywords** CLUSTER,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001114

**Title:** Disaster Management

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 02/01/2000

**Length** 12

**Comments** <plain>Natural disaster has always been one of man's most unpredictable dangers. But satellites in orbit, initially launched for earth observation for scientific research, are becoming valuable allies in our effort to predict natural disasters and facilitate rescue operations. This video presents an ESA and CNES initiative for the cooperation of all space agencies in pooling resources to help regions where disaster has struck including free provision of satellite data for ground-based rescue teams. Footage contains examples of the use of ESA and CNES Earth Observation satellites for earthquake monitoring, oil pollution detection, flood monitoring and damage assessment following such natural disasters. It also includes soundbites by ESA and CNES experts; Jerome Bequignon (Applications engineer Earth Observation), Jacques Breton (Special advisor for disaster management), and Pascal Michel (Cartographer). The main programme [09:59:39:00 - 10:07:27:00] is followed by B-roll footage [10:07:39:00 - 10:11:03:00].</plain>

**Keywords** REMOTE SENSING,WEATHER SATELLITES,ERS,SPOT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001114

**Title:** Disaster Management

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 02/01/2000

**Length** 12

**Comments** <plain>Natural disaster has always been one of man's most unpredictable dangers. But satellites in orbit, initially launched for earth observation for scientific research, are becoming valuable allies in our effort to predict natural disasters and facilitate rescue operations. This video presents an ESA and CNES initiative for the cooperation of all space agencies in pooling resources to help regions where disaster has struck including free provision of satellite data for ground-based rescue teams. Footage contains examples of the use of ESA and CNES Earth Observation satellites for earthquake monitoring, oil pollution detection, flood monitoring and damage assessment following such natural disasters. It also includes soundbites by ESA and CNES experts; Jerome Bequignon (Applications engineer Earth Observation), Jacques Breton (Special advisor for disaster management), and Pascal Michel (Cartographer). The French version of this video is titled ESPACE ET CATASTROPHES NATURELLES.</plain>

**Keywords** REMOTE SENSING,WEATHER SATELLITES,ERS,SPOT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001114

**Title:** Disaster Management

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 02/01/2000

**Length** 12

**Comments** <plain>Natural disaster has always been one of man's most unpredictable dangers. But satellites in orbit, initially launched for earth observation for scientific research, are becoming valuable allies in our effort to predict natural disasters and facilitate rescue operations. This video presents an ESA and CNES initiative for the cooperation of all space agencies in pooling resources to help regions where disaster has struck including free provision of satellite data for ground-based rescue teams. Footage contains examples of the use of ESA and CNES Earth Observation satellites for earthquake monitoring, oil pollution detection, flood monitoring and damage assessment following such natural disasters. It also includes soundbites by ESA and CNES experts; Jerome Bequignon (Applications engineer Earth Observation), Jacques Breton (Special advisor for disaster management), and Pascal Michel (Cartographer). The main programme [09:59:39:00 - 10:07:27:00] is followed by B-roll footage [10:07:39:00 - 10:11:03:00].</plain>

**Keywords** REMOTE SENSING,WEATHER SATELLITES,ERS,SPOT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001114

**Title:** Espace et Catastrophes Naturelles

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 02/01/2000

**Length** 12

**Comments** <plain>Natural disaster has always been one of man's most unpredictable dangers. But satellites in orbit, initially launched for earth observation for scientific research, are becoming valuable allies in our effort to predict natural disasters and facilitate rescue operations. This video presents an ESA and CNES initiative for the cooperation of all space agencies in pooling resources to help regions where disaster has struck including free provision of satellite data for ground-based rescue teams. Footage contains examples of the use of ESA and CNES Earth Observation satellites for earthquake monitoring, oil pollution detection, flood monitoring and damage assessment following such natural disasters. It also includes soundbites by ESA and CNES experts; Jerome Bequignon (Applications engineer Earth Observation), Jacques Breton (Special advisor for disaster management), and Pascal Michel (Cartographer). The main programme [ 09:59:39:00 - 10:07:26:00] is followed by B-roll footage containing interviews only [10:07:38:00 - 10:11:10:00]. The English version of this video is titled Disaster Management.</plain>

**Keywords** REMOTE SENSING,WEATHER SATELLITES,ERS,SPOT

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001114

**Title:** Espace et Catastrophes Naturelles

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 02/01/2000

**Length:** 12

**Comments:** <plain>Natural disaster has always been one of man's most unpredictable dangers. But satellites in orbit, initially launched for earth observation for scientific research, are becoming valuable allies in our effort to predict natural disasters and facilitate rescue operations. This video presents an ESA and CNES initiative, for the cooperation of all space agencies in pooling resources to help regions where disaster has struck including free provision of satellite data for ground-based rescue teams. Footage contains examples of the use of ESA and CNES Earth Observation satellites for earthquake monitoring, oil pollution detection, flood monitoring and damage assessment following such natural disasters. It also includes soundbites by ESA and CNES experts; Jerome Bequignon (Applications engineer Earth Observation), Jacques Breton (Special advisor for disaster management), and Pascal Michel (Cartographer). The main programme [ 09:59:39:00 - 10:07:26:00] is followed by B-roll footage containing interviews only [10:07:38:00 - 10:11:10:00]. The English version of this video is titled Disaster Management.</plain>

**Keywords:** REMOTE SENSING,WEATHER SATELLITES,ERS,SPOT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001114

**Title:** Espace et Catastrophes Naturelles

**Type:** Edited Video

**Category:** Documentary, general public

**Language:** French

**Production Date:** 02/01/2000

**Length:** 12

**Comments:** <plain>Natural disaster has always been one of man's most unpredictable dangers. But satellites in orbit, initially launched for earth observation for scientific research, are becoming valuable allies in our effort to predict natural disasters and facilitate rescue operations. This video presents an ESA and CNES initiative for the cooperation of all space agencies in pooling resources to help regions where disaster has struck including free provision of satellite data for ground-based rescue teams. Footage contains examples of the use of ESA and CNES Earth Observation satellites for earthquake monitoring, oil pollution detection, flood monitoring and damage assessment following such natural disasters. It also includes soundbites by ESA and CNES experts; Jerome Bequignon (Applications engineer Earth Observation), Jacques Breton (Special advisor for disaster management), and Pascal Michel (Cartographer). The main programme [ 09:59:39:00 - 10:07:26:00] is followed by B-roll footage containing interviews only [10:07:38:00 - 10:11:10:00]. The English version of this video is titled Disaster Management.</plain>

**Keywords:** REMOTE SENSING,WEATHER SATELLITES,ERS,SPOT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001131

**Title:** Tracker 2000 Part 1 12/14/99

**Type:** Edited Video

**Category:** multimedia VNR

**Language:** English

**Production Date:** 12/14/1999

**Length:** 21

**Comments:** <plain>Designed for multimedia broadcast, Tracker 2000 is : monthly magazine covering contemporary ESA topics. This issue, in two parts, is arranged in A/B-roll format and contains: MA RS - AN ESA UPDATE: Whilst NASA is investigating the reasons for the failure of its recent missio to Mars, these events did not remain without an impact for ESA who are pushing ahead with Mars Express, a Mars orbiter carrying the Beagle 2 lander scheduled for launch in 2003. This update includes Mars footage; 3-D graphics of Mars Express; 3-D graphics of the Beagle 2 lander on plane surface; interview with ESA's Mars Express Project Manag Rudi Schmidt. THE SMARTEST MISSION TO THE MOON: In 2001 ESA will send a small spacecraft to the moon called SMART-1, which features many new technologies, most notably a revolutionary ion propulsion system. This news item contains new 3-D graphics of the SMART-1 satellite, and SMART-1 in lunar orbit an surveying shots of the Ion Propulsion System; interview with Giorgio Saccoccia, SMART-1 project scientist. A LOOK INTO THE FUTURE - THE NEXT SCIENCE CORNERSTONE: Update on future missions. GAIA is a candidate astrometry mission to continue the work of Hipparcos. It would cover 10,000 times more stars than Hipparcos and measure their distances and velocities 100 times more accurately. BepiColombo is another mission under study, the first spacecraft to reach planet Mercury, where it will work at tempratures reaching 400 degrees Celsius. This item provides 3-D graphics of GAIA and BepiColombo; 3-D graphics of current missions, Soho and Cluster 2; general views of XMM tests; 3-D graphics of future mission Rosetta; 3-D graphics of FIRST; 3-D graphics of past mission Hipparcos, and of GAIA; graphics of star field, still of Mercury; 3-D graphics BepiColombo; interviews with Gordc Whitcomb, Head of future science projects, Michael Perryman, GAIA study scientist, Rejean Grard, BepiColomb study scientist.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001132

**Title:** Tracker 2000 Part 2 12/15/99

**Type:** Edited Video

**Category:** multimedia VNR

**Language:** English

**Production Date:** 12/15/1999

**Length:** 28

**Comments:** <plain>Designed for multimedia broadcast, Tracker 2000 is : monthly magazine covering contemporary ESA topics. This issue, in two parts, is arranged in A/B-roll format and contains: A LOOK INTO THE FUTURE. WHAT'S COMING NEXT? Three missions currently under study are presented in this news update. These are LISA, a laser interferometer space to look for gravitational waves; XEUS, an X-ray telescope to be mounted on the International Space Station, which would follow XMM; and DARWIN, a mission to discover planets in other solar systems. Contents provide 3 graphics of the launch and deployment of XEUS including docking with the International Space Station (ISS), and method of operation; 3-D graphics of DARWIN; 3-D graphic of LISA in space; 3-D graphics of star field, showing wave from stars and black holes; pov shot of Ariane V503; interviews with Arvind Parmar, study scientist, XEUS, Malcolm Fridlund, study scientist, DARWIN, and Gordon Whitcomb, Head of Future Projects, Directorate of Science Programme, ESA. LEONIDS - THE RESULTS Follow s the activities of ESA's Science Directorate to observe the 1999 Leonids meteorite shower. This news item includes: night sky observers; 3-D graphics of meteor shower including cu's; 3-D graphics of comet travelling toward the sun; var s installation of special observation equipment at the Calar Alto Observatory, Spain; the set-up of an Internet chat room where ESA scientists discuss their work with the general public; sonar observation of Leonids at ESA; interviews with Detle Koschny, ESA scientist, Erica Rolf, ESA Science Web Editor, Trevor Sanderson, ESA scientist. NEWS IN BRIEF Contains items on the possibility of a 10th planet; XMM competition, Millenium Stars. Includes gvs' Open University, London; 3-D graphics of the Sun and planets; g visit of children at Europe's spaceport, Kourou; still image o starfield with Cluster NGC 225; interview wirh John Murray Open University, United Kingdom. </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001133

**Title:** Tracker 2000 03/2000

**Type:** Edited Video

**Category:** multimedia VNR

**Language:** English

**Production Date:** 03/01/2000

**Length:** 23

**Comments:** <plain>Designed for multimedia broadcast, Tracker 2000 is : monthly magazine covering contemporary ESA topics. This video contains parts 1 and 2 of the March 2000 edition, and arranged in A/B-roll format. Contents are as follows: PART 1 XMM-Newton: The XMM satellite, launched in 1999, is the world's most sensitive X-ray observatory, and will provide astronomers with detailed knowledge of violent events in the universe which produce X-rays, including the action of black holes and explosions called gamma-ray bursts. Included are XMM-Newton's first images; 3-D graphics of XMM Newton in space; 3-D graphics of XMM's optical telescope; graphics of XMM's XMM/Ariane 504 launch; interview with Fred Jansen, project scientist XMM Newton (English and Dutch versions); views of Science Operations Centre control room, VILSPA, Villafranca, Spain; interview with Roger Bonnet, ESA's Director of Science (English/French versions). SOHO's Century: SOHO, launched in 1995, transmits vivid pictures of the Sun's atmosphere, by visible and ultraviolet light, and registers atomic particles en route from the Sun to Earth. Waves seen by SOHO in the Sun's visible surface reveal what is going on beneath the surface and in the deep interior. This news item provides background footage on SOHO, and introduces ESA's future mission, comet chaser, Rosetta. Footage includes: SOHO 100 comet still; 3-D graphics of SOHO in space; views of Sun; telephone interview with Bernhard Fleck, SOHO project manager; 3-D graphics of solar system; view of sun with flare; 3-D graphic Comet Wirtanen; 3-D graphics of Rosetta and Wirtanen; 3-D graphics of Rosetta landing on Wirtanen. PART 2 ISO's Biggest Find: ISO (1995-98) revolutionized the study of galaxies, stars and planets by infrared light. Footage includes 3-D graphics of ISO in space; ISO construction and testing; 3-D graphics of spectrometer; interview with Doctor Rens Waters (English and Dutch versions). News In Brief: Provides updates on future Cluster 2 and Planck missions. Cluster 2 will go into orbit, as a set of four identical satellites flying in company. They are designed to give the first 3-D picture of events in the Earth's space environment. Planck (due for launch around 2007) will survey the cool background of radio microwaves which fill the sky, appear a relic of the Big Bang at the origin of the Universe. The item includes 3-D graphics of four Cluster 2 satellites; views of Soyuz test launch; Cluster 2 spin test; 3-D graphics of solar energy waves; 3-D graphics of Planck; 3-D graphics of launch of Planck; 3-D graphics of solar system. </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001133

**Title:** Tracker 2000 03/2000

**Type:** Edited Video

**Category:** multimedia VNR

**Language:** English

**Production Date:** 03/01/2000

**Length:** 23

**Comments:** <plain>Designed for multimedia broadcast, Tracker 2000 is : monthly magazine covering contemporary ESA topics. This video contains parts 1 and 2 of the March 2000 edition, and arranged in A/B-roll format. Contents are as follows: PART 1 XMM-Newton: The XMM satellite, launched in 1999, is the world's most sensitive X-ray observatory, and will provide astronomers with detailed knowledge of violent events in the universe which produce X-rays, including the action of black holes and explosions called gamma-ray bursts. Included are XMM-Newton's first images; 3-D graphics of XMM Newton in space; 3-D graphics of XMM's optical telescope; graphics of XMM's XMM/Ariane 504 launch; interview with Fred Jansen, project scientist XMM Newton (English and Dutch versions); views of Science Operations Centre control room, VILSPA, Villafranca, Spain; interview with Roger Bonnet, ESA's Director of Science (English/French versions). SOHO's Century: SOHO, launched in 1995, transmits vivid pictures of the Sun's atmosphere, by visible and ultraviolet light, and registers atomic particles en route from the Sun to Earth. Waves seen by SOHO in the Sun's visible surface reveal what is going on beneath the surface and in the deep interior. This news item provides background footage on SOHO, and introduces ESA's future mission, comet chaser, Rosetta. Footage includes: SOHO 100 comet still; 3-D graphics of SOHO in space; views of Sun; telephone interview with Bernhard Fleck, SOHO project manager; 3-D graphics of solar system; view of sun with flare; 3-D graphic Comet Wirtanen; 3-D graphics of Rosetta and Wirtanen; 3-D graphics of Rosetta landing on Wirtanen. PART 2 ISO's Biggest Find: ISO (1995-98) revolutionized the study of galaxies, stars and planets by infrared light. Footage includes 3-D graphics of ISO in space; ISO construction and testing; 3-D graphics of spectrometer; interview with Doctor Rens Waters (English and Dutch versions). News In Brief: Provides updates on future Cluster 2 and Planck missions. Cluster 2 will go into orbit, as a set of four identical satellites flying in company. They are designed to give the first 3-D picture of events in the Earth's space environment. Planck (due for launch around 2007) will survey the cool background of radio microwaves which fill the sky, appear a relic of the Big Bang at the origin of the Universe. The item includes 3-D graphics of four Cluster 2 satellites; views of Soyuz test launch; Cluster 2 spin test; 3-D graphics of solar energy waves; 3-D graphics of Planck; 3-D graphics of launch of Planck; 3-D graphics of solar system. </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001151

**Title:** Tracker 2000 11/17/1999

**Type:** Edited Video

**Category:** multimedia VNR

**Language** English

**Production Date** 11/17/1999

**Length** 34

**Comments** <plain>Designed for multimedia broadcast, Tracker 2000 is : monthly magazine covering contemporary ESA topics. This issue, in A/B-roll format, includes: HOW TO COOK A PLANET A new theory on the origin of planets, with commentary and interviews in English. THE LEONIDS METEOR SHOWER Update and background on meteor activity, and ESA's observation plans, with commentary and interview in English. ESA's PLNETARY LANDINGS Background to ESA's planetary and comet observation missions including 3-D graphics of Cassini, Mars Express, Rosetta, SMART 1. English commentary. NEWS IN BRIEF Short news updates on a new theory on the Moon; Cluster spacecraft; and the young XMM competition winners who travel to Europe's Spaceport at Kourou, French Guiana. English commentary. </plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001153

**Title:** European Robotic Arm (ERA)

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 11/30/1999

**Length:** 18

**Comments:** <plain>The European Robotic Arm [ERA] is a relocatable manipulator arm for space applications. ESA is developing ERA for the International Space Station [ISS]. In the first phase, the purpose of ERA is to assemble and maintain the various elements of the Russian segment of the ISS with the help of a cosmonaut in Extra-Vehicular Activity [EVA]. This video, in A and B-roll format, provides background footage the development and testing of ERA at Fokker Space, Leide and ESA/ESTEC, Noordwijk; ERA deployment graphics; ISS graphics showing elements contributed by participating countries; and interviews with ERA project experts, Uwe Berkes (ESA), and Caspar Hofkamp (Fokker Space). The A-roll features soundbites by ERA experts, Uwe Berkes (ESA), and Caspar Hofkamp (Fokker Space), on the development of ERA. B-roll footage is arranged as follows: 3-D graphics of Japanese contribution to ISS; 3-D graphics of Russian contribution to ISS; 3-D graphics of American contribution to ISS; 3-D graphics of European contribution to ISS; first movements of ERA joints on flat floor facility at Fokker Space; integration of ERA in flat floor facility, Fokker Space; first movements of ERA in flat floor facility, Fokker Space; ERA during testing at Large Space Simulator (LSS), ESA/ESTEC, Noordwijk, Netherlands; underwater training facility; launch of Russian Proton, Baikonur, Russia, November 1998. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001153

**Title:** European Robotic Arm (ERA)

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 11/30/1999

**Length:** 18

**Comments:** <plain>The European Robotic Arm [ERA] is a relocatable manipulator arm for space applications. ESA is developing ERA for the International Space Station [ISS]. In the first phase, the purpose of ERA is to assemble and maintain the various elements of the Russian segment of the ISS with the help of a cosmonaut in Extra-Vehicular Activity [EVA]. This video, in A and B-roll format, provides background footage the development and testing of ERA at Fokker Space, Leide and ESA/ESTEC, Noordwijk; ERA deployment graphics; ISS graphics showing elements contributed by participating countries; and interviews with ERA project experts, Uwe Berkes (ESA), and Caspar Hofkamp (Fokker Space). The A-roll features soundbites by ERA experts, Uwe Berkes (ESA), and Caspar Hofkamp (Fokker Space), on the development of ERA. B-roll footage is arranged as follows: 3-D graphics of Japanese contribution to ISS; 3-D graphics of Russian contribution to ISS; 3-D graphics of American contribution to ISS; 3-D graphics of European contribution to ISS; first movements of ERA joints on flat floor facility at Fokker Space; integration of ERA in flat floor facility, Fokker Space; first movements of ERA in flat floor facility, Fokker Space; ERA during testing at Large Space Simulator (LSS), ESA/ESTEC, Noordwijk, Netherlands; underwater training facility; launch of Russian Proton, Baikonur, Russia, November 1998. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001171

**Title:** ERA Testing in LSS

**Type:** Edited Video

**Category:** multimedia VNR

**Language** English

**Production Date** 12/07/1999

**Length** 12

**Comments** <plain>The European Robotic Arm [ERA] is a relocatable manipulator arm for space applications. ESA is developing ERA for the International Space Station [ISS]. In the first phase , the purpose of ERA is to assemble and maintain the various elements of the Russian segment of the ISS with th help of a cosmonaut in Extra-Vehicular Activity [EVA]. In November, 1999, the structural model of the European Robotic Arm was tested in the Large Space Simulator (LSS) at ESA's Technical Centre, ESTEC. The LSS is Europe's largest test chamber to simulate the vacuum and solar radiation in space. This video, in A and B-roll format, contain footage of test preparations for ERA, background footage and graphics of ISS and Mir, and interviews with Geoffrey Beckwith and Alain Morat, ESA Test Managers. The A-roll features interviews (English) with Beckwith and Morat, describing how the ERA test was conducted at LSS facility ESA; why ERA needs to be tested inside the LSS; what the LSS interior environment is like and how conditions are achieved; detailing preliminary test results; the cost of conducting specialized tests. B-roll footage includes: 3-D graphics of ERA deployment in ISS; exterior shots of Mir Space Station; various ERA testing at LSS facility.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001192

**Title:** Leonids: ESA Coverage

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** English

**Production Date** 11/18/1999

**Length** 12

**Comments** <plain>This video follows the activities of ESA's Science Directorate to observe the 1999 Leonids meteorite shower. Includes highlights of events at ESA's Observation Centre, ESOC, Darmstadt, Germany; the Leonids monitoring set-up at Calar Alto Observatory, Spain; background graphics on comet activity; and interviews with ESA scientists. Footage is arranged as follows: General views of people watching night sky for the Leonids. Graph showing incidence of meteors, and still image of meteor in sky. Various shots inside European Space Observation Center (ESOC), Darmstadt, Germany, including scientists studying electronid Leonid image, transmitted via telecommunications lines. ESA scientists in Leonids Internet chatroom, ESTEC, Netherlands. Gvs ' of Calar Alto Observatory, Southern Spain. Gvs ' ESA scientist Detlef Koschny sets up Leonids monitoring camera at Calar Alto Observatory. 3-D graphics: Comet Tempel-Tuttle flies past the sun (2 takes). 3-D graphics: Crossing orbits of a comet and of Earth. 3-D graphics: Earth passing through the particle stream of a cometary tail (2 takes). 3-D graphics: How cometary particles produce shooting stars. Iv Walter Flury, ESA's space debris expert. Iv's Thomas Mueller, ESA scientist. Iv's Detlef Koschny, ESA scientist.  
</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001251

**Title:** ESA / ESTEC Concurrent Design Facility

**Type:** Edited Video

**Category:** multimedia VNR

**Language** English

**Production Date** 01/10/2000

**Length** 22

**Comments** <plain>This video, in A and B-roll format introduces ESA's Concurrent Design Facility (CDF) based at its technical headquarters, ESTEC, in the Netherlands. The CDF allows ESA specialists working in different areas of spacecraft design -mechanical, electrical and software- to convene, and coordinate the conceptual design process, within one facility. New on-line technology allows increased cooperation between specialists, speeding up the process of space mission design. The A-roll contains an interview with Massimo Bandecchi, CDF Project Manager. B-roll footage provides footage of old design facilities, ESTEC; gvs' interior CDF, ESTEC; i/v with Massimo Bandecchi (English).</plain>

**Keywords** ESA GENERAL,ESTEC

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001251

**Title:** ESA / ESTEC Concurrent Design Facility

**Type:** Edited Video

**Category:** multimedia VNR

**Language** English

**Production Date** 01/10/2000

**Length** 22

**Comments** <plain>This video, in A and B-roll format introduces ESA's Concurrent Design Facility (CDF) based at its technical headquarters, ESTEC, in the Netherlands. The CDF allows ESA specialists working in different areas of spacecraft design -mechanical, electrical and software- to convene, and coordinate the conceptual design process, within one facility. New on-line technology allows increased cooperation between specialists, speeding up the process of space mission design. The A-roll contains an interview with Massimo Bandecchi, CDF Project Manager. B-roll footage provides footage of old design facilities, ESTEC; gvs' interior CDF, ESTEC; i/v with Massimo Bandecchi (English).</plain>

**Keywords** ESA GENERAL,ESTEC

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001252

**Title:** Ariane 505: Vol 128 Campaign

**Type:** Edited Video

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 03/21/2000

**Length:** 47

**Comments:** <plain>The Ariane 505 Vol. 128 launch, on 21 March, 2000, delivered two telecommunications satellites in geostationary transfer orbit: AsiaStar, and Insat 3B. Using graphics and live-action recordings, this video provides footage of the launch campaign. Arranged as follows: arrival of MN Colibri vessel at port of Kourou; delivery of launcher parts to Kourou Launcher Base; launcher main stage raised upright in Booster Integration Building; mating of two solid-propellant boosters; transfer to Launcher Integration Building (LIL); second stage of launcher integrated; integration of cryogenic central stage; transfer of launcher to Final Assembly Building (BAF); arrival of AsiaStar by plane; satellite in cleanroom; satellite enclosed in payload fairing; night rollout to fuelling bay; satellite fuelled; night arrival of Insat 3-B by plane; satellite in cleanroom; satellite testing; satellite fuelled; logo applied to payload fairing; satellite lowered onto exhaust nozzle; transfer to Final Assembly Building (BAF); installation of Insat on launcher; fairing composite fitted to launcher; AsiaStar lowered onto exhaust nozzle; satellite enclosed in payload fairing; transfer of AsiaStar to Final Integration Building (BAF); installation onto launcher; fairing composite fitted to launcher; final rollout of launcher on mobile table from BAF to launch zone; Ariane 505 on launchpad; live broadcast extracts (with French commentary) of control room countdown, night launch of V128, graphics of flight sequence, control room reactions, speeches by Jean-Marie Luton (Chairman and CEO Arianespace), Dr Kasturirangan (President ISRO), Benoit Tellier (Chief Operating Officer, Alcatel Space, Noah Samar (Chief Executive Officer, Worldspace); various views of dramatic night launch; technical camera footage of launch, different angles and views. </plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001291

**Title:** Chandra : First Results

**Type:** Edited Video

**Category:** multimedia VNR

**Language** Mute

**Production Date** 10/15/1999

**Length:** 7

**Comments** <plain></plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001292

**Title:** Chandra: Results

**Type:** Edited Video

**Category:** multimedia VNR

**Language** Mute

**Production Date** 10/15/1999

**Length:** 7

**Comments** <plain>NASA's Chandra X-ray Observatory was launched and deployed by Space Shuttle Columbia (STS-93 mission) on 23 July 1999. Chandra is designed to observe X-rays from high energy regions of the universe, such as hot gas in the remnants of exploded stars. This video provides a comparison of early science results with images from Chandra, arranged in brief graphic sequences as follows: Eta Carinae (star) shown in four different parts of spectrum: radio; infrared; optical; X-ray (Chandra) Crab Nebula (supernova) shown in four different parts of spectrum: radio; infrared; optical; X-ray (Chandra) Cas A (supernova remnant) shown in four different parts of spectrum: radio; infrared; optical; X-ray (Chandra) PSR 0540-69 (neutron star or pulsar) shown in three different parts of spectrum: infrared; optical; X-ray (Chandra) G21.5-0.9 (supernova remnant) shown in three different parts of spectrum: infrared; optical; X-ray (Chandra) PKS 0637-752 (quasar) shown in four different parts of spectrum: radio; infrared; optical; X-ray (Chandra) </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001311

**Title:** Soyuz-Fregat Qualification Flight

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain>A stylish montage presenting the new Fregat upper stage of the Soyuz rocket, and including footage of the Soyuz-Fregat qualification flight from Baikonur Cosmodrome, Kazakhstan, Russia, on 9 February 2000. Footage is arranged as follows: the new Fregat upper stage; the new Fregat processing facility; the new Soyuz-Fregat Launch Vehicle Integration Building; the new Soyuz-Fregat launch pad; Soyuz-Fregat qualification flight. The Soyuz rocket was first launched in November 1963 and has since flown more than 1,500 times. A manned version carries crews to space stations such as Mir, while an unmanned version is used to launch satellites. ESA's Cluster 2 mission will be launched on two Soyuz-Fregats in June 2000, if a second qualification flight proves successful. Mars Express will also be launched by a Soyuz-Fregat rocket, from Baikonur Cosmodrome, in June 2003. </plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001331

**Title:** Starsem Flights: ST 01 - ST 05

**Type:** Edited Video

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length:** 3

**Comments:** <plain>This video presents a compilation of five Soyuz-Fregat qualification launches from Baikonur Cosmodrome, Kazakhstan, Russia: Starsem flights ST 01 - ST 05. Soyuz-Fregat rockets are procured through Starsem, a European-Russian company that markets Soyuz launchers outside Russia. Following the success of these flights, the Soyuz-Fregat will be used to launch ESA's Cluster 2 mission in June 2000, and Mars Express in June 2003. </plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001371

**Title:** STS-99 Post Flight Presentation

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 03/04/2000

**Length:** 17

**Comments:** <plain>On 31 January 2000, the Space Shuttle Endeavour was launched on a mission to complete the most extensive topographic survey of the Earth's surface to date. The Shuttle Radar Topography Mission (SRTM) collected radar data, using a technique called SAR interferometry. This data will enable scientists to produce detailed three-dimensional models of 80% of the planet's surface. These will be the first 3D maps of developing countries and large areas of the Earth's sparsely populated desert and forest. Benefits in collecting this data will include improved forecasting of environmental conditions, increased navigational safety, help with urban planning and road construction. Crew members were Kevin Kregel (NASA), Dominic Gorie (NASA), Janet Kavandi (NASA), Janice Voss (NASA), Mamoru Mohri (NASA), and Gerhard Thiele (ESA) on his first ever space mission. The SRTM payload is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). This video provides a post flight summary of the mission, as follows: launch pad, dusk, Kennedy Space Center, Florida; crew suit up; crew take practice drive on armoured personnel carrier; crew leave operations and checkout building; shot of Space Shuttle Endeavour; crew helped into position for launch; shuttle on launch pad; ignition of main engines; various views of launch; interior view of shuttle at launch; jettison of solid rocket motors; external tank ejection; Earth view from shuttle; opening of payload doors; view of radar turning; Kavandi and Thiele turn on payload systems; extension of long antenna mast; graphic sequence showing mast extension; mast base plate locks; view of mast from Commander's window; graphics of antenna mast deployment; graphics showing antennae alignment and SRTM mapping system; Mohri changes magnetic tapes used to record radar data; various footage of crew activities; Earth views from shuttle - Pacific Ocean through to Bolivia, South America, coral and sand of Bahamas, desert in Mauritania, Africa, irrigation patterns in Saudi Arabia, Mount Fuji and Tokyo Bay, Japan, Southern Russia and Black Sea coastline of South America with Ecuador and Peru, Mediterranean Sea, Malta, Italy, Kamtchatka Peninsula featuring volcanic terrain; view of radar mast over Earth; folding of antenna mast; mast fails to close; Flight Director at Mission Control Center; closure of mast lip; footage of activities on board shuttle including crew dancing; view of radar mast with moon background; various views of shuttle approaching Kennedy Space Center; landing sequence; crew pose for cameras with shuttle background; mapping of globe graphic. </plain>

**Keywords:** MANNED SPACEFLIGHT, SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001371

**Title:** STS-99 Post Flight Presentation

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>On 31 January 2000, the Space Shuttle Endeavour was launched on a mission to complete the most extensive topographic survey of the Earth's surface to date. The Shuttle Radar Topography Mission (SRTM) collected radar data, using a technique called SAR interferometry. This data will enable scientists to produce detailed three-dimensional models of 80% of the planet's surface. These will be the first 3D maps of developing countries and large areas of the Earth's sparsely populated desert and forest. Benefits in collecting this data will include improved forecasting of environmental conditions, increased navigational safety, help with urban planning and road construction. Crew members were Kevin Kregel (NASA), Dominic Gorie (NASA), Janet Kavandi (NASA), Janice Voss (NASA), Mamoru Mohri (NASA), and Gerhard Thiele (ESA) on his first ever space mission. The SRTM payload is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). This video provides a post flight summary of the mission, as follows: launch pad, dusk, Kennedy Space Center, Florida; crew suit up; crew take practice drive on armoured personnel carrier; crew leave operations and checkout building; shot of Space Shuttle Endeavour; crew helped into position for launch; shuttle on launch pad; ignition of main engines; various views of launch; interior view of shuttle at launch; jettison of solid rocket motors; external tank ejection; Earth view from shuttle; opening of payload doors; view of radar turning; Kavandi and Thiele turn on payload systems; extension of long antenna mast; graphic sequence showing mast extension; mast base plate locks; view of mast from Commander's window; graphics of antenna mast deployment; graphics showing antennae alignment and SRTM mapping system; Mohri changes magnetic tapes used to record radar data; various footage of crew activities; Earth views from shuttle - Pacific Ocean through to Bolivia, South America, coral and sand of Bahamas, desert in Mauritania, Africa, irrigation patterns in Saudi Arabia, Mount Fuji and Tokyo Bay, Japan, Southern Russia and Black Sea coastline of South America with Ecuador and Peru, Mediterranean Sea, Malta, Italy, Kamtchatka Peninsula featuring volcanic terrain; view of radar mast over Earth; folding of antenna mast; mast fails to close; Flight Director at Mission Control Center; closure of mast lip; footage of activities on board shuttle including crew dancing; view of radar mast with moon background; various views of shuttle approaching Kennedy Space Center; landing sequence; crew pose for cameras with shuttle background; mapping of globe graphic. </plain>

**Keywords:** MANNED SPACEFLIGHT, SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001391

**Title:** Envisat Is Complete! B-Roll

**Type:** Edited Video

**Category:** multimedia VNR

**Language** English

**Production Date** 04/13/2000

**Length:** 9

**Comments** <plain>Due for launch by Ariane 5 in June 2001, Envisat-1 is an advanced polar-orbiting Earth Observation satellite, which will provide measurements of the atmosphere, ocean, land and ice over a five year period. As a successor to ESA's ERS-1 and ERS-2 spacecraft, Envisat will collect remote sensing data which will support Earth science research and allow monitoring of the evolution of environmental and climatic changes. This video, in B-roll format, presents the completion of ESA's Envisat-1 satellite at ESTEC, Noordwijk Netherlands. It includes footage of Envisat, filmed in ESTEC's Integration facilities on 13 April 2000; interview with Bill Simpson, Deputy AIT Manager, Matra Marconi Space; interview with Derek Todtman, Envisat Programme Manager Matra Marconi Space; 3-D graphics of Envisat in orbit and satellite deployment; Ariane 5 launch sequence. </plain>

**Keywords** ENVISAT,REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001391

**Title:** Envisat Is Complete! B-Roll

**Type:** Edited Video

**Category:** multimedia VNR

**Language** English

**Production Date** 04/13/2000

**Length:** 9

**Comments** <plain>Due for launch by Ariane 5 in June 2001, Envisat-1 is an advanced polar-orbiting Earth Observation satellite, which will provide measurements of the atmosphere, ocean, land and ice over a five year period. As a successor to ESA's ERS-1 and ERS-2 spacecraft, Envisat will collect remote sensing data which will support Earth science research and allow monitoring of the evolution of environmental and climatic changes. This video, in B-roll format, presents the completion of ESA's Envisat-1 satellite at ESTEC, Noordwijk Netherlands. It includes footage of Envisat, filmed in ESTEC's Integration facilities on 13 April 2000; interview with Bill Simpson, Deputy AIT Manager, Matra Marconi Space; interview with Derek Todtman, Envisat Programme Manager Matra Marconi Space; 3-D graphics of Envisat in orbit and satellite deployment; Ariane 5 launch sequence. </plain>

**Keywords** ENVISAT,REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001411

**Title:** Envisat Integration VNR

**Type:** Edited Video

**Category:** multimedia VNR

**Language:** English

**Production Date:** 03/24/2000

**Length:** 14

**Comments:** <plain>Due for launch by Ariane 5 in June 2001, Envisat-1 is an advanced polar-orbiting Earth Observation satellite, which will provide measurements of the atmosphere, ocean, land and ice over a five year period. As a successor to ESA's ERS-1 and ERS-2 spacecraft, Envisat will collect remote sensing data which will support Earth science research and allow monitoring of the evolution of environmental and climatic changes. This VNR, in A- and B-roll format, provides an interview with David Spencer, ENVISAT Assembly and Test Manager, Matra Marconi Space, and background footage of Envisat, including animations and film of the integration and testing taking place at ESTEC, Netherlands. The A-roll footage includes: Envisat lifted by crane in cleanroom, ESTEC; Ariane 5 launch; graphics of Envisat orbiting Earth; general views of Envisat integration, ESTEC; graphics showing operation of ASAR (Advanced Synthetic Aperture Radar), deployed by Envisat; various SAR images of Earth; shot of flight instrument's integration onto polar platform, ESTEC; general views of ASAR antenna integration, ESTEC; integration of payload module with service module; computer screen graphics of satellite testing; shot of unfolding ASAR antenna. A-roll footage also includes interview voice over by David Spencer, Matra Marconi Space. B-roll footage provides interview with David Spencer without background footage. </plain>

**Keywords:** ENVISAT,REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001411

**Title:** Envisat Integration VNR

**Type:** Edited Video

**Category:** multimedia VNR

**Language:** English

**Production Date:** 03/24/2000

**Length:** 14

**Comments:** <plain>Due for launch by Ariane 5 in June 2001, Envisat-1 is an advanced polar-orbiting Earth Observation satellite, which will provide measurements of the atmosphere, ocean, land and ice over a five year period. As a successor to ESA's ERS-1 and ERS-2 spacecraft, Envisat will collect remote sensing data which will support Earth science research and allow monitoring of the evolution of environmental and climatic changes. This VNR, in A- and B-roll format, provides an interview with David Spencer, ENVISAT Assembly and Test Manager, Matra Marconi Space, and background footage of Envisat, including animations and film of the integration and testing taking place at ESTEC, Netherlands. The A-roll footage includes: Envisat lifted by crane in cleanroom, ESTEC; Ariane 5 launch; graphics of Envisat orbiting Earth; general views of Envisat integration, ESTEC; graphics showing operation of ASAR (Advanced Synthetic Aperture Radar), deployed by Envisat; various SAR images of Earth; shot of flight instrument's integration onto polar platform, ESTEC; general views of ASAR antenna integration, ESTEC; integration of payload module with service module; computer screen graphics of satellite testing; shot of unfolding ASAR antenna. A-roll footage also includes interview voice over by David Spencer, Matra Marconi Space. B-roll footage provides interview with David Spencer without background footage. </plain>

**Keywords:** ENVISAT,REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001413

**Title:** Cluster 2 VNR

**Type:** Edited Video

**Category:** VNR

**Language** English

**Production Date** 04/06/2000

**Length** 20

**Comments** <plain>ESA's Cluster 2 mission, launched in 2000, will exploit a once in an 11-year opportunity of peak solar activity to study the sun's impact on the earth. The effects of this peak range from the appearance of auroras in the polar night sky, to the malfunction of satellites and disruption of power networks. The spacecraft, flying in formation between 19000 and 119000 km above the Earth, will study the interaction between solar wind and the Earth's atmosphere in deep detail, to obtain three-dimensional measurements of phenomena which occur in the immediate surroundings of our planet. Cluster 2 is a replacement for the original Cluster mission, which was lost during the first test flight of Ariane 5 in June 1996. The four spacecraft will be launched in pairs by two Soyuz launch vehicles. Mission control will be performed by ESA/ESOC European Space Operations Centre in Darmstadt, Germany. This VNR contains A-roll with commentary and B-roll arranged as follows: graphics of Cluster satellites in orbit; gvs' of Cluster 2 development and testing at IABG facilities, Munich, Germany; graphics showing interaction between solar wind and the Earth's magnetosphere; gvs' of the Sun as seen from the Earth; various satellite images of the Sun and solar flares; footage of Northern Lights [FMI copyright]; gvs' Soyuz-Fregat launch; gvs' ESA ground station, Villafranca, Spain; gvs' Cluster operations centre, ESOC, Darmstadt, Germany; live footage of Ariane 501 launch of Cluster 1 mission with explosion; graphics of SOHO with Sun background; various solar and heliospheric images received from SOHO satellite; graphics of Ulysses in solar wind.</plain>

**Keywords** CLUSTER,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001414

**Title:** EAC Television Footage

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 05/10/2000

**Length:** 20

**Comments:** <plain>This video compilation of historical and background footage, and interviews, celebrates the 10th anniversary of ESA's European Astronaut Centre (EAC), located in Cologne, Germany. EAC, opened on 10 May 1990, provides training and medical support to ESA astronauts on the ground and during missions. The European astronaut corps have participated in 31 space missions, from the early Soviet Salyut stations to Russia's Mir, and through cooperation with NASA, on 17 Space Shuttle flights. For the International Space Station, crews will attend EAC for training in the operation of the ESA contribution to ISS: the Columbus Laboratory, the Automated Transfer Vehicle and a number of payload facilities for scientific experiments. Contents are arranged as follows: gvs' astronaut tours EAC, Cologne; COF (Columbus Orbital Facility); Mir simulator; Haignere inspects spacesuit exhibit; gvs' neutral buoyancy training pool, EAC; gvs' Thomas Reiter trains in COF simulator; graphic of the International Space Station (ISS); footage of Jean-Francois Clervoy and Claude Nicollier on STS-103 Hubble Repair Mission, 1999, including EVA's; Pedro Duque and NASA astronaut John Glenn during STS-95 Mission, 1998; various footage of Euromir missions, 1994 and 1995 including gvs' Ulf Merbold onboard Mir, and Thomas Reiter onboard Mir; gvs Spacelab, 1983 - 1996; historical footage of the testing of Europe's first astronauts in the 1970s; i/v Jörg Feustel-Buechl, ESA Director of Manned Spaceflight and Microgravity [English/German]; i/v Prof. Ernst Messerschmidt, ESA Head of European Astronaut Centre [English/German]; i/v Umberto Guidoni, ESA astronaut [Italian]; i/v Jean-Pierre Haignere, ESA Head of Astronaut Division [English/French]; i/v Jean-Francois Clervoy, ESA astronaut [English/French]; i/v Leopold Eyharts [English/French]; i/v Paolo Nespoli [English/Italian].</plain>

**Keywords:** EAC,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001414

**Title:** EAC Television Footage

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 05/10/2000

**Length:** 20

**Comments:** <plain>This video compilation of historical and background footage, and interviews, celebrates the 10th anniversary of ESA's European Astronaut Centre (EAC), located in Cologne, Germany. EAC, opened on 10 May 1990, provides training and medical support to ESA astronauts on the ground and during missions. The European astronaut corps have participated in 31 space missions, from the early Soviet Salyut stations to Russia's Mir, and through cooperation with NASA, on 17 Space Shuttle flights. For the International Space Station, crews will attend EAC for training in the operation of the ESA contribution to ISS: the Columbus Laboratory, the Automated Transfer Vehicle and a number of payload facilities for scientific experiments. Contents are arranged as follows: gvs' astronaut tours EAC, Cologne; COF (Columbus Orbital Facility); Mir simulator; Haignere inspects spacesuit exhibit; gvs' neutral buoyancy training pool, EAC; gvs' Thomas Reiter trains in COF simulator; graphic of the International Space Station (ISS); footage of Jean-Francois Clervoy and Claude Nicollier on STS-103 Hubble Repair Mission, 1999, including EVA's; Pedro Duque and NASA astronaut John Glenn during STS-95 Mission, 1998; various footage of Euromir missions, 1994 and 1995 including gvs' Ulf Merbold onboard Mir, and Thomas Reiter onboard Mir; gvs Spacelab, 1983 - 1996; historical footage of the testing of Europe's first astronauts in the 1970s; i/v Jörg Feustel-Buechl, ESA Director of Manned Spaceflight and Microgravity [English/German]; i/v Prof. Ernst Messerschmidt, ESA Head of European Astronaut Centre [English/German]; i/v Umberto Guidoni, ESA astronaut [Italian]; i/v Jean-Pierre Haignere, ESA Head of Astronaut Division [English/French]; i/v Jean-Francois Clervoy, ESA astronaut [English/French]; i/v Leopold Eyharts [English/French]; i/v Paolo Nespoli [English/Italian].</plain>

**Keywords:** EAC,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00001431

**Title:** ESA News World Promo

**Type:** Edited Video

**Category:** Music clip

**Language:** English

**Production Date:** 10/22/1999

**Length:** 5

**Comments:** <plain>A short, stylish promotional montage presenting ESA's broadcast service.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001432

**Title:** Mars Express and Mars Polar Lander

**Type:** Edited Video

**Category:** multimedia VNR

**Language:** English

**Production Date:** 12/06/1999

**Length:** 16

**Comments:** <plain>This video, combining interviews, graphics and VT feeds, provides an overview of Mars Express and ESA's current or future planetary missions, Huygens-Cassini, Rosetta, and Smart 1, followed by footage on Mars Polar Lander, one element of NASA's Mars Global Surveyor '98 project. [Mars Express background footage is available on Mars Express VNR - Prod. no. 00000816]. In addition to being ESA's first journey to Mars, Mars Express will also be the cheapest ever mission to the Red Planet. Due to be launched in 2003, Mars Express comprises an orbiter satellite which will search the planet for water using infrared and radar techniques, and a lander called Beagle-2. On 3 December 1999, NASA's Mars Polar Lander (launched in January 1999) was due to send the first signals to Earth after touch down near the south pole of Mars. Extracts from NASA Television live coverage of the event filmed at the JPL control room, plus mission graphics and an interview with Robert Manning (JPL Mars 2003/2005 Lander Engineer), are included on this video.</plain>

**Keywords:** SPACE SCIENCE,NASA GENERAL,MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001451

**Title:** Mars Climate Observer

**Type:** Edited Video

**Category:** outside broadcast

**Language** English

**Production Date** 09/23/1999

**Length** 9

**Comments** <plain>Edited highlights of NASA TV live coverage of the Mars Climate Observer's insertion into Mars orbit on 23 September 1999, from the Jet Propulsion Laboratory, Pasadena. Footage includes launch, Cape Canaveral, 11 December 1999; gvs Mission Support Area, JPL; graphic sequence of Mars Climate Observer reaching orbit illustrating solar array stow, main engine burn, spacecraft behind Mars; spacecraft emerging from behind Mars, solar array unstowed. </plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001493

**Title:** Soyuz-Fregat Qualification

**Type:** Edited Video

**Category:** multimedia VNR

**Language** M/E only

**Production Date** 04/11/2000

**Length** 8

**Comments** <plain>A stylish montage presenting the new Fregat upper stage of the Soyuz rocket, and including footage of the Soyuz-Fregat qualification flight from Baikonur Cosmodrome, Kazakhstan, Russia, on 9 February 2000. Footage is arranged as follows: the new Fregat upper stage; the new Fregat processing facility; the new Soyuz-Fregat Launch Vehicle Integration Building; the new Soyuz-Fregat launch pad; Soyuz-Fregat qualification flight; ESA's Cluster 2 graphics. The Soyuz rocket was first launched in November 1963 and has since flown more than 1,500 times. A manned version carries crews to space stations such as Mir, while an unmanned version is used to launch satellites. ESA's Cluster 2 mission will be launched on two Soyuz-Fregats in June 2000, if a second qualification flight proves successful. Mars Express will also be launched by a Soyuz-Fregat rocket, from Baikonur Cosmodrome, in June 2003. This footage on Soyuz-Fregat, broadcast by the ESA TV Service on 11 April 2000, is available on the video Soyuz-Fregat Qualification Flight (Production No. 00001311). </plain>

**Keywords** LAUNCHERS, CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001494

**Title:** ESA: ILA 2000 Compilation

**Type:** Edited Video

**Category:** Music clip

**Language** M/E only

**Production Date** 04/01/2000

**Length:** 40

**Comments:** <plain>Video montage, produced for the ILA 2000 (International Air and Space Exhibition) in Berlin, Germany, which provides coverage of a variety of historical and contemporary ESA space programmes. </plain>

**Keywords** ESA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001511

**Title:** Cluster Competition Promotion Clips (All Versions)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** Various

**Production Date** 04/04/2000

**Length:** 29

**Comments:** <plain>This video contains A-roll with Cluster competition promotion clips in English, French, Norwegian, Danish, Finnish, German, Italian, Portuguese, Spanish, Swedish and Dutch (all versions - dubbed), presented by Roger Bonnet. The B-roll provides a montage of images related to the CLuster 2 mission, and interview with Roger Bonnet, ESA Director of Science, in French and English. Footage includes: gvs' telecommunications use and power installations on ground; graphics of earth's magnetosphere and solar wind; Soyuz-Fregat launches, Baikonur Cosmodrome, Kazakhstan; various shots of Cluster 2 at test and integration facilities, IABG, Ottobrun, Munich; solar and heliospheric images from SOHO satellite; 3-D graphics of Cluster mission, including fleet of four spacecraft and the solar wind; interview with Roger Bonnet [French/English].</plain>

**Keywords** CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001511

**Title:** Cluster Competition Promotion Clips (All Versions)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** Various

**Production Date:** 04/04/2000

**Length:** 29

**Comments:** <plain>This video contains A-roll with Cluster competition promotion clips in English, French, Norwegian, Danish, Finnish, German, Italian, Portuguese, Spanish, Swedish and Dutch (all versions - dubbed), presented by Roger Bonnet. The B-roll provides a montage of images related to the CLuster 2 mission, and interview with Roger Bonnet, ESA Director of Science, in French and English. Footage includes: gvs' telecommunications use and power installations on ground; graphics of earth's magnetosphere and solar wind; Soyuz-Fregat launches, Baikonur Cosmodrome, Kazakhstan; various shots of Cluster 2 at test and integration facilities, IABG, Ottobrun, Munich; solar and heliospheric images from SOHO satellite; 3-D graphics of Cluster mission, including fleet of four spacecraft and the solar wind; interview with Roger Bonnet [French/English].</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001551

**Title:** Ariane 505 Vol 128 Launch Highlights

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 03/22/2000

**Length:** 10

**Comments:** <plain>The Ariane 505 Vol 128 launch, on 21 March 2000, delivered two telecommunications satellites in geostationary transfer orbit: AsiaStar, and Insat 3B. This video features highlights of an Arianespace live transmission of the launch. Footage is arranged as follows: gvs' Ariane 505 on launchpad; short sequence on AsiaStar and Insat 3-B satellites including satellites in cleanroom, and graphics showing orbital positions; roll out of Ariane 505 launcher to launchpad; satellite image of weather status before lift off; gvs' Jupiter control room during two countdown interruption night launch of launch; graphics of satellites' separation from Ariane 505; soundbites by Jean-Marie Luton, chairman and CEO, Arianespace. </plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001553

**Title:** Ariane 4 Vol 129 Launch Highlights

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 04/19/2000

**Length:** 14

**Comments:** <plain>The Ariane 4 Vol 129 was launched from Kourou, French Guiana, on 18 April 2000, placing the Galaxy 4R satellite into geostationary transfer orbit. This video contains highlights of the campaign, arranged as follows: gvs' Jupiter control room; arrival of Ariane 42L on launch pad; arrival of launcher parts in MN Toucan vessel; transport to Kourou Launch Base; launcher erection and integration sequence; mating of two solid-propellant boosters; integration of cryogenic central stage; roll out of Ariane 4 to launchpad; gvs' control room; arrival of Galaxy 4R satellite by plane; satellite cleanroom; satellite fuelled; satellite enclosed in payload fairing; night rollout of satellite; mating of payload with launcher; countdown sequence; Ariane 4 lift off; booster separation and jettison; gvs' control room; soundbite by Dou Kahn, President and CEO, Panamsat; soundbite by Jacques Rossignol, Chief Operating Officer, Arianespace.</plain>

**Keywords:** LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001554

**Title:** Ariane 505: Vol 128 Campaign - Music Clip

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 03/21/2000

**Length:** 11

**Comments:** <plain>The Ariane 505 Vol 128 launch, on 21 March, 2000, delivered two telecommunications satellites in geostationary transfer orbit: AsiaStar, and Insat 3B. This video provides footage of the launch campaign as follows: arrival of MN Colibri vessel at port of Kourou; delivery of launcher parts to Kourou Launch Base; launcher main stage raised upright; transfer to Launcher Integration Building (BIL); second stage of launcher integrated; mating of solid-propellant boosters; rollout of launcher to Final Assembly Building (BAF); arrival of AsiaStar satellite by plane; satellite in cleanroom; satellite enclosed in payload fairing; night roll out to fuelling bay; arrival of Insat; cleanroom footage of Insat; satellite lowered onto exhaust nozzle; transfer to fuelling bay; satellite fuelled; satellite enclosed in payload fairing; fairing composite fitted to launcher; application of logos; AsiaStar satellite lowered on exhaust nozzle; integration of satellite with launcher; final rollout of launcher on mobile table from BAF to launch zone; control room countdown; various views of Ariane 505 V.128 night launch; technical camera footage of launch, different angles and views.</plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001571

**Title:** Ariane 4 Vol 129 Campaign - Music Clip

**Type:** Edited Video

**Category:** Music clip

**Language:** M/E only

**Production Date:** 04/18/2000

**Length:** 8

**Comments:** <plain>The Ariane 4 Vol 129 was launched from Kourou, French Guiana, on 18 April 2000, placing the Galaxy 4R satellite into geostationary transfer orbit. This video provide footage of the launch campaign as follows: arrival of MN Toucan; delivery of rocket components; launcher main stag raised upright in Booster Integration Building; second stage launcher integrated; booster attachment; vehicle equipment ring attached; arrival of Galaxy 4R satellite by plane; unloading of satellite; var s' satellite preparation; satellite fuelled; launcher roll out to launch zone; satellite lowered or exhaust nozzle; satellite enclosed in payload fairing; application of logo; transfer of Galaxy payload to Final Assembly Building (BAF); payload bay winched to top of launcher; integration with launcher; control room countdow var s' of night launch, different angles and views. </plain>

**Keywords:** LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001572

**Title:** Cluster 2 Story

**Type:** Edited Video

**Category:** VNR

**Language** English and French

**Production Date** 05/15/2000

**Length:** 11

**Comments** <plain>ESA's Cluster 2 mission, launched in 2000, will exploit a once in an 11-year opportunity of peak solar activity to study the sun's impact on the earth. The effects of this peak range from the appearance of auroras in the polar night sky, to the malfunction of satellites and disruption of power networks. The spacecraft, flying in formation between 19000 and 119000 km above the Earth, will study the interaction between solar wind and the Earth's atmosphere in deep detail, to obtain three-dimensional measurements of phenomena which occur in the immediate surroundings of our planet. Cluster 2 is a replacement for the original Cluster mission, which was lost during the first test flight of Ariane 5 in June 1996. The four spacecraft will be launched in pairs by two Soyuz launch vehicles. Mission control will be performed by ESA/ESOC European Space Operations Centre in Darmstadt, Germany. This VNR contains A-roll with Christophe-Philippe Escoubet interview (English/French), and B-roll arranged as follows: graphics of Cluster satellites in orbit; gvs' of Cluster 2 development and testing at IABG facilities, Munich, Germany; graphics showing interaction between solar wind and the Earth's magnetosphere; gvs' Soyuz-Fre launch; graphics of Cluster 2 in orbit, earth in b/g; graphics solar particles and protective magnetosphere.</plain>

**Keywords** CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001572

**Title:** Cluster 2 Story

**Type:** Edited Video

**Category:** VNR

**Language** English and French

**Production Date** 05/15/2000

**Length** 11

**Comments** <plain>ESA's Cluster 2 mission, launched in 2000, will explore a once in an 11-year opportunity of peak solar activity to study the sun's impact on the earth. The effects of this peak range from the appearance of auroras in the polar night sky, to the malfunction of satellites and disruption of power networks. The spacecraft, flying in formation between 19000 and 119000 km above the Earth, will study the interaction between solar wind and the Earth's atmosphere in deep detail, to obtain three-dimensional measurements of phenomena which occur in the immediate surroundings of our planet. Cluster 2 is a replacement for the original Cluster mission, which was lost during the first test flight of Ariane 5 in June 1996. The four spacecraft will be launched in pairs by two Soyuz launch vehicles. Mission control will be performed by ESA/ESOC European Space Operations Centre in Darmstadt, Germany. This VNR contains A-roll with Christophe-Philippe Escoubet interview (English/French), and B-roll arranged as follows: graphics of Cluster satellites in orbit; gvs' of Cluster 2 development and testing at IABG facilities, Munich, Germany; graphics showing interaction between solar wind and the Earth's magnetosphere; gvs' Soyuz-Fre launch; graphics of Cluster 2 in orbit, earth in b/g; graphics solar particles and protective magnetosphere.</plain>

**Keywords** CLUSTER

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001591

**Title:** Astronomy Visualization Lab B-Roll

**Type:** Edited Video

**Category:** index,chapter-structured

**Language** Mute

**Production Date** 00/00/00

**Length** 60

**Comments** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001591

**Title:** Astronomy Visualization Lab B-Roll

**Type:** Edited Video

**Category:** index,chapter-structured

**Language** Mute

**Production Date** 00/00/00

**Length:** 60

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001591

**Title:** Astronomy Visualization Lab B-Roll

**Type:** Edited Video

**Category:** index,chapter-structured

**Language** Mute

**Production Date** 00/00/00

**Length:** 60

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001612

**Title:** Galileo - European Initiative - English-

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001612

**Title:** Galileo - European Initiative - English-

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00001612

**Title:** Galileo - European Initiative - French -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001612

**Title:** Galileo - European Initiative - French -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** French

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001612

**Title:** Galileo - European Initiative - German -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001612

**Title:** Galileo - European Initiative - Deutsch -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001631

**Title:** ISS - Service Module Zvezda -

**Type:** Edited Video

**Category:** index,A and B roll

**Language** Natural Sound / English

**Production Date** 00/00/00

**Length:** 1809

**Comments:** <plain></plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001631

**Title:** ISS - Service Module Zvezda -

**Type:** Edited Video

**Category:** index,A and B roll

**Language:** Natural Sound / English

**Production Date:** 00/00/00

**Length:** 1809

**Comments:** <plain></plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001651

**Title:** Stories From Cluster

**Type:** Edited Video

**Category:**

**Language:** French, German and English

**Production Date:** 00/00/00

**Length:** 2015

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001671

**Title:** ESA Envisat - English - ( Mix )

**Type:** Edited Video

**Category:** Documentary - general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - English - ( Mix )

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - French - ( Mix )

**Type:** Edited Video

**Category:** Documentary - general public

**Language** French

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - French- ( Mix )

**Type:** Edited Video

**Category:** Documentary - general public

**Language** French

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - French -

**Type:** Edited Video

**Category:** Documentary - general public

**Language** French

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - French -

**Type:** Edited Video

**Category:** Documentary - general public

**Language** French

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - English-

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - English-

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - German-

**Type:** Edited Video

**Category:** Documentary - general public

**Language** German

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001671

**Title:** ESA Envisat - German-

**Type:** Edited Video

**Category:** Documentary - general public

**Language** German

**Production Date** 00/00/00

**Length:** 13

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001672

**Title:** ISS Promo Update - English -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001672

**Title:** ISS Promo Update - English -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001672

**Title:** ISS Promo Update - German -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001672

**Title:** ISS Promo Update - German -

**Type:** Edited Video

**Category:** Documentary, general public

**Language** German

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001695

**Title:** ESA's New Internet Portal

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 00/00/00

**Length:** 12

**Comments:** <plain>Background footage on the relaunch of ESA's website. Includes an A-roll and a B-roll with images of the Web team at work in ESA's IT establishment, ESRIN in Italy, and a series of screen dumps onto video to give an impression of the look and feel of the new site. Soundbites: Fulvio Driganis (in English), ESA Portal Project Manager, and Karina de Castris (in French and Italian), Promotion Manager are also included.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** commercial

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**Pouction no.** 00001696

**Title:** Global Monitoring Program of Illicit Crops

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 00/00/00

**Length:** 6

**Comments** <plain>A production by the UN's International Drug Control Program highlighting the use of ESA's ERS Satellites to help monitor illicit drug crops, mainly in Asia and South America. The production explains how the satellites are being used in conjunction with ground surveys to pinpoint the exact locations and determine the quantities of these drug crops that include Coca plants and Opium poppies. There are various soundbites (English) by UN experts of the Drug Control Program.</plain>

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001697

**Title:** EGNOS Presentation

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 00/00/00

**Length:** 6

**Comments** <plain>Presentation with English commentary about EGNOS a revolutionary new navigation system, which will guide vehicles using satellite navigation. EGNOS is a joint ESA - European Commission and Eurocontrol project. EGNOS receives signal from military GPS satellites and, using specialised hardware, adds a correction factor and surveys their reliability. The signal is then beamed back into space and distributed by a system of 3 civilian satellites. In this way high-quality navigation tracking information is made available to all vehicles fitted with EGNOS-receiving equipment.</plain>

**Keywords** EGNOS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001697

**Title:** EGNOS Presentation

**Type:** Edited Video

**Category:** Documentary - general public

**Language** English

**Production Date** 00/00/00

**Length** 6

**Comments** <plain>Presentation with English commentary about EGNOS a revelutionary new navigation system, which will guide vehicles using satellite navigation. EGNOS is a joint ESA - European Commission and Eurocontrol project. EGNOS recieves signal from military GPS satellites and, using specialised hardware, adds a correction factor and survey their reliability. The signal are then beamed back into space and distributed by a system of 3 civilian satellites. In this w high-quality navigation tracking information is made availabl to all vehicles fitted with ENOS-recieving equipment.</plain>

**Keywords** EGNOS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001699

**Title:** Antarctica From Space

**Type:** Edited Video

**Category:** VNR

**Language** English

**Production Date** 00/00/00

**Length** 15

**Comments** <plain>Detailed 3-D topographical maps of Antarctica, made form the data of the Canadian Radersat satellite. The VNR features many fly-bys of interesting areas. The images are commented by Mark Drinkwater, a scientist from ESA's Eart Science Division. </plain>

**Keywords** EARTH OBSERVATION,ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001700

**Title:** Ariane 5 Vol 130 Launch Highlights

**Type:** Edited Video

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 5

**Comments:** <plain>Edited highlights of the 6th Ariane 5 launch vol 130 ε it carries the Astra 2B and GE-7 satellites into orbit.</plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001701

**Title:** Antarctica Seen From Space (19/09/00)

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>VNR to illustrate the latest ERS-2 GOME Ozone images. Includes photo and video recordings of Antarctica (NASA), 3-D graphics of ERS-2 spacecraft, background footage on ERS-2 data processing at KNMI in the Netherlands and the new ERS-2 3-D graphics of year 2000 ozone hole. Commentary by Mark Drinkwater, ESA Scientist</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001702

**Title:** Cluster II - Background Footage (17/04/00)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>Background footage and commentary on the Cluster satellites which were launched in the summer 2000. The cluster satellites will travel around the earth investigating the solar winds which are at the moment at an 11-year peak and which can have dangerous electrical effects on the earth.</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001703

**Title:** ISS First Crew Expedition - Background Footage (20/10/00)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>Background footage and commentary on the Expedition One Crew, the first permanent crew to man the International Space Station and comprising of Commander Bill Shepherd (US), Pilot Yuri Gidzenko (Russia) and Flight Engineer Sergei Krikalev.</plain>

**Keywords:** EXPEDITION ONE CREW,INTERNATIONAL SPACE STAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001704

**Title:** 10th Anniversary of EAC (European Astronaut Centre)

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>On the 10 May 2000 was the 10th Anniversary of th European Astronaut Centre in Cologne. This VNT contains footage of the EAC as well as interviews incl with Astrona about the EAC.</plain>

**Keywords:** EAC,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001705

**Title:** Zvezda - Background Footage

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>VNR on the Zvezda Module made (23/06/00) as background footage before its launch in July 2000 including soundbites with Jochen Graf, ESA Head of Systems, Integration and Operations. The Zvezda Module provides tf first living quarters and laboratories on board the Internatio Space Station. It will also house ESA's Data Management System a special fault tolerant com-puter system which wil guide and control the ISS.</plain>

**Keywords:** INTERNATIONAL SPACE STATION,ZVEZDA

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001706

**Title:** Artemis Overview Programme 2000

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>Artemis overview with English commentary. Programme on Artemis, ESA's next telecommunications satellite. Artemis has 3 major functions. Firstly to send high data rate communications directly between satellites. Secondly to broadcast accurate navigation information as an element of Europe's EGNOS system. Thirdly to provide voice and data communications between mobiles mainly for vehicles. NB - The B-Roll of this video is now out of date, the launch of Artemis has been rescheduled for April 2001 and will be launched by an Ariane launcher and not the Japanese launcher as indicated in the programme.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001713

**Title:** Space Walks

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>A five minute A-roll telling the story of ESA Astronaut Jean-Pierre Haignere, Thomas Reiter and Claude Nicollier space walk experiences, and includes soundbites (German and English), stunning in-orbit video recordings from shuttle and Mir missions, and video footage from space walk training in Star City and Houston. The 5-minute A-roll with English commentary (split audio tracks) is complemented by a B-roll with the unedited material. </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001713

**Title:** Space Walks

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>A five minute A-roll telling the story of ESA Astronaut Jean-Pierre Haignere, Thomas Reiter and Claude Nicollier space walk experiences, and includes soundbites (German and English), stunning in-orbit video recordings from shuttle and Mir missions, and video footage from space walk training in Star City and Houston. The 5-minute A-roll with English commentary (split audio tracks) is complemented by a B-roll with the unedited material. </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001713

**Title:** Space Walks - M/E Version

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** M/E only

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>A five minute A-roll telling the story of ESA Astronaut Jean-Pierre Haignere, Thomas Reiter and Claude Nicollier space walk experiences, and includes soundbites (German and English), stunning in-orbit video recordings from shuttle and Mir missions, and video footage from space walk training in Star City and Houston. The 5-minute A-roll is complemented by a B-roll with the unedited material. </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001714

**Title:** ESA Highlights 2000

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 30

**Comments** <plain>An edited highlights index of 2 to 3 minute sequence of the best of ESA in 2000 and a preview of the main event of 2001.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001715

**Title:** Preview 2001 - Claudie Andre-Deshays

**Type:** Edited Video

**Category:** VNR

**Language** English and French

**Production Date** 00/00/00

**Length:** 8

**Comments** <plain>Images of the French ESA astronaut Claudie Andre-Deshays who is due to visit the ISS in October 2001 according to The French Ministry of Research's announcement at the end of 2000. The programme include footage of the astronaut training at Star City in Moscow and soundbites in English and French both recorded in November 2000. The programme also includes images of the first mission, on Mir, back in 1996.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001715

**Title:** Preview 2001 - Claudie Andre-Deshays

**Type:** Edited Video

**Category:** VNR

**Language** English and French

**Production Date** 00/00/00

**Length:** 8

**Comments** <plain>Images of the French ESA astronaut Claudie Andre-Deshays who is due to visit the ISS in October 2001 according to The French Ministry of Research's announcement at the end of 2000. The programme includes footage of the astronaut training at Star City in Moscow and soundbites in English and French both recorded in November 2000. The programme also includes images of the first mission, on Mir, back in 1996.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001716

**Title:** Preview 2001 - Umberto Guidoni

**Type:** Edited Video

**Category:** VNR

**Language** English

**Production Date** 00/00/00

**Length:** 7

**Comments** <plain>The Italian ESA astronaut Umberto Guidoni will be the first European to visit the International Space Station. This short programme includes recent soundbites by Umberto Guidoni in English and Italian. Also includes some background footage of the development of the Multi-Purpose Logistics Module and the Canadian Robotic Arm both of which will be taken up with Guidoni.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001717

**Title:** Preview 2001 - Artemis

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 11

**Comments:** <plain>In spring or early summer 2001, an Ariane 5 launcher will put Artemis into orbit, ESA's next-generation telecommunications and navigation satellite. This programme features soundbites by Gotthard Oppenhauser, ESA's Artemis project manager, on the mission of Artemis, its commercial prospects, and on the recent selection of Ariane 5 as the Artemis launch vehicle. In addition, the programme includes a short edited presentation of the Artemis satellite and its mission, including 3-D computer graphics and images of satellite development.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001718

**Title:** MERIS Presentation

**Type:** Edited Video

**Category:** Documentary - general public

**Language:** English

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>MERIS, the Medium Resolution Imaging Spectrometer, is one of the instruments newly developed for Envisat. It measures solar radiation reflected from the Earth's surface and clouds in the visible and infra-red parts of the spectrum. MERIS will detect biophysical properties (e.g. Chlorophyll concentration) of the oceans and coastal water composition which are especially important in understanding the impact of human activities on the coastal environment. The Meris data can also be interpreted as large scale maps showing vegetation distribution, clouds and water vapour. This programme is a documentary produced by Alcatel Espace, the prime contractor for the development of this instrument. It outlines the concept of Meris and how the instrument functions using 3-D computer graphics to illustrate. It includes an English voiceover and no international sound.</plain>

**Keywords:** ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001720

**Title:** Mir Compilation 2001 - Background footage for de-orbit

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length** 22

**Comments** <plain>The de-orbiting of the Russian space station Mir has been scheduled for the 6 March 2001. This programme is a compilation of historical background footage on Mir and features the return of the last Mir Crew in August 1999.</plain>

**Keywords** EUROMIR,HISTORICAL MATERIAL,MANNED SPACEFLIG

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001721

**Title:** Envisat B-Roll 25/01/01

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length** 12

**Comments** <plain>On Thursday 1 February, Europe's media gathered at ESA's Technical Centre ESTEC for the roll-out of Envisat. This B-Roll features material on ESA's next-generation environmental satellite, much of it released for the first time. It includes recordings of Envisat development and testing at ESTEC, soundbites by Jacques Louet - Envisat Programme Manager and Peter Brinkman - Head of Testing, footage of recent Ariane 5 launch (Envisats launch vehicle), images of the primary Envisat ground station in Kiruna and Envisat 3-D graphics.</plain>

**Keywords** ENVISAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001721

**Title:** Envisat B-Roll 25/01/01

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length** 12

**Comments** <plain>On Thursday 1 February, Europe's media gathered at ESA's Technical Centre ESTEC for the roll-out of Envisat. This B-Roll features material on ESA's next-generation environmental satellite, much of it released for the first time. It includes recordings of Envisat development and testing at ESTEC, soundbites by Jacques Louet - Envisat Programme Manager and Peter Brinkman - Head of Testing, footage of a recent Ariane 5 launch (Envisat's launch vehicle), images of the primary Envisat ground station in Kiruna and Envisat 3-D graphics.</plain>

**Keywords** ENVISAT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001723

**Title:** No El Nino Event in 2000/2001

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 00/00/00

**Length** 10

**Comments** <plain>El Nino and La Nina manifest themselves through deviations in the average temperature of the Pacific Ocean near the Equator of as much as 0.5 degrees. These are monitored routinely by several satellites. The year 2000 and the beginning of 2001 are characterised by "quiet" average conditions after a very strong El Nino/La Nina event in 1996/1999. This programme features a new graphics sequence made from data by the Franco/US Topex-Poseidon satellite, showing 8 years of Pacific Ocean sea-level data, including 2 complete El Nino/La Nina cycles. This is complemented by footage of how winds, sea surface temperature and upwelling of the sea surface are related. ESA scientist Mark Drinkwater provides some soundbites on El Nino and its effects.</plain>

**Keywords** WEATHER SATELLITES,EARTH OBSERVATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001724

**Title:** ODIN Video File

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain>On the 20 February 2001 the new Scandinavian satellite ODIN will be launched. ODIN is a dual mission small satellite for research ob both astronomical and atmospheric topics. The astromomical objectives are mainly related to st formation processes in the interstellar medium, while the astmospheric research (aeronomy) objectives are mainly related to processes behind the ozone layer depletion and t geographical extent of the disturbance. This video provide: technical introduction to ODIN and includes 3-D graphics, GV's of production and soundbites by Georg Witt - Profess of Atmospheric Physics, Roy Booth - Professor Radio Astronomy and Olivier vandermarcq - Member of the ODIN project team.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001731

**Title:** VIDEO FILE 11/01/01 - STS-98 B-Roll, SOHO, Stardust

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** English

**Production Date** 00/00/00

**Length:** 30

**Comments:** <plain>Downlink of NASA-TV Video File featuring the STS-98 mission B-Roll with 3-D graphics and animations. Also included are SOHO images of solar fireworks on 10/01/01 and Stardust earth flyby and mission animations.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001731

**Title:** VIDEO FILE 11/01/01 - STS-98 B-Roll, SOHO, Stardust

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** English

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>Downlink of NASA-TV Video File featuring the STS-98 mission B-Roll with 3-D graphics and animations. Also included are SOHO images of solar fireworks on 10/01/01 and Stardust earth flyby and mission animations.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00001732

**Title:** VIDEO FILE 31/01/01 - NEAR, ISS PAO, Topex/Poseidon

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** English

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>NASA-TV Vido File featuring NEAR/Shoemaker animations, Interview with Expedition One Crew on board the ISS, and animations made from Topex/Poseidon data. Chapter 1: History's first attempt to land a spacecraft on an asteroied took place successfully at 19.01 (GMT) on February, when NASA's mission controllers dropped the NEAR Shoemaker probe to a soft landing on the astroid Eros. The 495-Kilogram probe descended from its orbit around the asteroied and slide gently onto the rocky surface Since its launch in 1996, NEAR Shoemaker has produced a wealth of scientific data on asteroieds. This chapter of the Video File features 3-D graphics of NEAR Shoemaker and the asteroid EROS and soundbites by NEAR project manager and project scientist. Chapter 2: On the 2 November 2000 the Expedition One Crew were succesfully launched to the International Space Station on board the Soyuz capsule. They have now successfully inhabited the ISS for three out the four months of there intended stay. This chapter is a live interview with the Expedition One crew made by Florida Today and KHOU-TV. Chapter 3: The final chapter of this video file features images and animations made from Topex/Posiedon satellite data. The satellite measures sea surface temperatures and this data has been used to create animations and make predictions on climate conditions around the world. It also includes soundbites from an Oceanographer at NASA's Jet Propulsion Laboratory.</plain>

**Keywords:** INTERNATIONAL SPACE STATION,WEATHER SATELLIT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001732

**Title:** VIDEO FILE 31/01/01 - NEAR, ISS PAO, Topex/Poseidon

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** English

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>NASA-TV Vido File featuring NEAR/Shoemaker animations, Interview with Expedition One Crew on board the ISS, and animations made from Topex/Poseidon data. Chapter 1: History's first attempt to land a spacecraft on an asteroied took place successfully at 19.01 (GMT) on February, when NASA's mission controllers dropped the NEAR Shoemaker probe to a soft landing on the astroid Eros. The 495-Kilogram probe descended from its orbit around the asteroied and slide gently onto the rocky surface Since its launch in 1996, NEAR Shoemaker has produced a wealth of scientific data on asteroieds. This chapter of the Video File features 3-D graphics of NEAR Shoemaker and the asteroid EROS and soundbites by NEAR project manager and project scientist. Chapter 2: On the 2 November 2000 the Expedition One Crew were succesfully launched to the International Space Station on board the Soyuz capsule. They have now successfully inhabited the ISS for three out the four months of there intended stay. This chapter is a live interview with the Expedition One crew made by Florida Today and KHOU-TV. Chapter 3: The final chapter of this video file features images and animations made from Topex/Posiedon satellite data. The satellite measures sea surface temperatures and this data has been used to create animations and make predictions on climate conditions around the world. It also includes soundbites from an Oceanographer at NASA's Jet Propulsion Laboratory.</plain>

**Keywords:** INTERNATIONAL SPACE STATION,WEATHER SATELLIT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001733

**Title:** Mir De-orbit Index

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 52

**Comments:** <plain>The De-orbiting of the Mir space station in mid-March will put an end to one of the most important projects in the history of space flight. This video index contains 3-D graphics of Mir including its de-orbit and also historical footage of the space station. The video includes an A-Roll (minutes) with split audio (English voiceover and clean, international sound), and an extended B-roll.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001733

**Title:** Mir De-orbit Index (English)

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 52

**Comments:** <plain>The De-orbiting of the Mir space station in mid-March will put an end to one of the most important projects in the history of space flight. This video index contains 3-D graphics of Mir including its de-orbit and also historical footage of the space station. The video includes an A-Roll (minutes) with split audio (English voiceover and clean, international sound), and an extended B-roll.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001733

**Title:** Mir De-orbit Index (English with slates)

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 52

**Comments:** <plain>The De-orbiting of the Mir space station in mid-March will put an end to one of the most important projects in the history of space flight. This video index contains 3-D graphics of Mir including its de-orbit and also historical footage of the space station. The video includes an A-Roll (minutes) with split audio (English voiceover and clean, international sound), and an extended B-roll.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001733

**Title:** Mir De-orbit Index (French)

**Type:** Video Index

**Category:** Index, A- and B-roll

**Language:** French

**Production Date:** 00/00/00

**Length:** 52

**Comments:** <plain>The De-orbiting of the Mir space station in mid-March will put an end to one of the most important projects in the history of space flight. This video index contains 3-D graphics of Mir including its de-orbit and also historical footage of the space station. The video includes an A-Roll (minutes) with split audio (English voiceover and clean, international sound), and an extended B-roll.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001734

**Title:** ODIN - Un mini satellite aux grandes amibitions

**Type:** Edited Video

**Category:** Documentary, technical

**Language:** French

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>The Swedish Odin satellite is scheduled for saunch on 20 February 2001, on a small Russian launcher. Odin combines 2 scientific disciplines on a single spacecraft: studies of star formation/early solar system (astronomy) an studies of the depletion of the ozone layer in the Earth atmosphere The French space agency CNES in conjunction with the Swedish Space Corporation and the space agencies of Canada and Finland, has developed the satellite for astronomers and atmospheric researchers in th participating countries. This documentary has been produced by CNES and provides background information or the satellite including 3-D graphics,GVs Odin development and testing, and soundbites (French) from: Philipe Ricaud, Observatoire de Bordeaux Maryvonne Gerin, CNRS, Observatoire de Paris Alain Lecacheux, Obervatoire de Paris Isabelle Ristorcelli, CESR Alain Gaboriaud, CNES</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001735

**Title:** OSIRIS - Instrument on ODIN

**Type:** Edited Video

**Category:** Index, chapter-structured

**Language** M/E only

**Production Date** 00/00/00

**Length** 3

**Comments** <plain>The Swedish Odin satellite, launch date 20 February 2001, combines 2 scientific disciplines on a single spacecraft that of atmospherical and astronomical studies. The space agency of Finland TEKES in conjunction with the Swedish Space Corporation and the space agencies of Canada and France, have developed the satellite for astronomers and atmospheric researchers in the participating countries. The instruments used on the Odin satellite are a radiometer called SMR (Sub Millimetre Receiver) and an optical instrument called OSIRIS (Odin Spectrometer and InfraRed Imaging System). The latter is only used for atmospheric studies. This video index produced by the Finnish Meteorological Institute comprises of slated 3-D graphics which illustrate the OSIRIS instrument on the ODIN satellite. It contains English slides and M/E tracks only, there is no commentary.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001736

**Title:** ODIN - Video Index (CNES)

**Type:** Video Index

**Category:** Index, chapter-structured

**Language** French

**Production Date** 00/00/00

**Length** 38

**Comments** <plain>Odin is a small, low cost satellite that will use sub-mm techniques to perform both atmospherical and astronomical studies. Launch date 20 February 2001. This video Index from the French space agency CNES contains slated footage that was used to make the "ODIN - Un mini satellite aux grandes ambitions" documentary (see archive).</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001737

**Title:** Satellite Navigation Story 1 (English)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 00/00/00

**Length** 30

**Comments** <plain>First of a four-part series of short, topical stories on satellite navigation, particularly on its use in cars and road traffic management. This video explains how satellite positioning and navigation using the GLocal Positioning System (GPS) works, and it looks into the limitations of the GPS system, particularly for safety-critical areas like commercial air traffic navigation. The video comprises of a minute A-roll and a B-roll. The A-Roll carries split audio tracks (English and ambient sound), and the B-Roll clean international sound.</plain>

**Keywords** SATELLITE NAVIGATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001737

**Title:** Satellite Navigation Story 1 (International Version)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** International Sound

**Production Date** 00/00/00

**Length** 30

**Comments** <plain>First of a four-part series of short, topical stories on satellite navigation, particularly on its use in cars and road traffic management. This video explains how satellite positioning and navigation using the GLocal Positioning System (GPS) works, and it looks into the limitations of the GPS system, particularly for safety-critical areas like commercial air traffic navigation. This international version the video comprises of a 4-minute A-roll and a B-roll. The A and B-roll both carry clean international sound.</plain>

**Keywords** SATELLITE NAVIGATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001738

**Title:** For Months In Space

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>With the advent of the International Space Station, long-term space mission will become the routine for most astronauts in space. Whilst arriving in zero gravity poses mainly physiological challenges, a mission of several month requires also psychological strengths and team-player capabilities. Three ESA astronauts, Thomas Reiter, Claudie Andre-Deshray and Jean-Pierre Haignere, have spent up to half a year on board Mir. In this video they tell the story of long-term mission into space. The A-Roll with English voiceover is complemented by a B-Roll with clean international sound.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001738

**Title:** For Months In Space - M/E Version

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>With the advent of the International Space Station, long-term space mission will become the routine for most astronauts in space. Whilst arriving in zero gravity poses mainly physiological challenges, a mission of several month requires also psychological strengths and team-player capabilities. Three ESA astronauts, Thomas Reiter, Claudie Andre-Deshray and Jean-Pierre Haignere, have spent up to half a year on board Mir. In this video they tell the story of long-term mission into space. The 5 minute A-Roll is complemented by a B-Roll, both carry clean international sound. </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001739

**Title:** XEUS Presentation (Graphics only)

**Type:** Edited Video

**Category:** Graphics

**Language:** English

**Production Date:** 00/00/00

**Length:** 11

**Comments:** <plain>XEUS is an imaginative science mission under study by ESA. If it is built, it becomes the follow up to ESA's XMM/Newton observatory, the world's most powerful telescope for x-rays launched in December 1999. XEUS is imagined to be built in two stages: First XEUS-1 would be launched like a satellite, or better, two satellites; however, the x-ray mirror block and the detector module are separated by several dozen metres, and are kept aligned to extreme accuracy in orbit. The second stage of XEUS involves the International Space Station. Its logistical capabilities, and its robotic arm, will be used to assemble in orbit a telescope with a 30 sqm x-ray mirror size. This video includes a 4-minute presentation of XEUS entirely in 3-D graphic images, plus a few sound bites by XEUS scientist Arvind Parmar. The presentation carries split audio tracks (English/international sound), and the sound bites are in English. </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001740

**Title:** Hubble Space Telescope Images 07/03/2001

**Type:** Video Index

**Category:** various

**Language:** English

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>In March 2001 a researcher from Cambridge (England) made a discovery by studying new images from the Hubble Space Telescope (HST). These Beautiful, detailed Hubble images are of the centre of the prototypical starburst galaxy M82 and point to a violent past. An ancient burst of star formation that gave birth to more than 100 super star clusters is linked to a violent encounter with the galaxy's neighbour, M81. This video includes these images firstly with and then without explanatory slides and then the slide images are repeated after a timecode jump and are followed by 3-D graphics of the HST and the HST filmed by astronaut of the STS-103 mission (Dec 1999)</plain>

**Keywords:** HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001741

**Title:** STS-102 Pre-mission B-Roll 28/02/01

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** No Sound

**Production Date** 00/00/00

**Length:** 14

**Comments** <plain>This NASA edited B-Roll includes pre-event footage on the Shuttle mission (launch 8 March 2001) and which includes taking up the MPLM Leonardo and also the Expedition Two Crew. The video includes 3-D graphics on the mission operations, G.V's of payload preparations and recent in-orbit footage of the International Space Station. TI B-Roll carries no audio and has slates with captions.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001742

**Title:** Leonardo B-Rolls

**Type:** Video Index

**Category:** Index, chapter-structured.

**Language** English

**Production Date** 00/00/00

**Length:** 5

**Comments** <plain>Two 5 minute B-Rolls, (second one with slates, after time-code jump), providing background footage on Leonardo, the European-built logistics module for the International Space Station, launched on 8 March 2001, 11:42 GMT, and installed on the station on 10 March. The footage is accompanied by international sound and there is no commentary.</plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001743

**Title:** STS-102 Flight Day 1 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>On the 8 March 2001 the Space Shuttle Discovery launched at the start of the STS-102 mission to take up the MPLM Leonardo to the International Space Station and to swap the Expedition One crew with the Expedition Two crew. The STS-102 crew comprises of: Paul Richards, Mission Specialist; Andy Thomas, Mission Specialist; Jim Kelly, Pilot; Jim Weatherbee, Commander. The Expedition Two crew comprises of Commander Yury Usachev, Susan Helms and Flight Engineer James Voss. This NASA-TV download are the Flight Day One highlights of the STS-102 mission, a compilation of the best images of crew launch preparations final countdown and lift-off of Shuttle Discovery.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001744

**Title:** STS-102 Flight Day 3 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>Part of the STS-102 mission is take up the Expedition Two crew and bring back the Expedition One crew and is among the mission's top priorities. Expedition One Commander Bill Shepherd, Soyuz Commander Yuri Gidzenk and Flight Engineer Sergei Krikalev will be replace by Expedition Two Commander Yury Usachev and Expedition Two flight engineers Susan Helms and Jim Voss. The transfer will take place in a carefully orchestrated, one-at-a-time process that ensures three current members of the station crew will be able to come home, at any time during t switch, aboard the Soyuz spacecraft attached to the statio Expedition Two crewmembers officially joint the station wh they install their seatliners in the Soyuz. This NA SA downlink, taken on the 10 March 2001, features the docking of the Shuttle Discovery with the International Space Station Shuttle and ISS crew meet and greet, and the installation of Yury Usachev seat liner into the Soyuz capsule as he offic joins the station. The video comprises of a 4 minute edited crew activity report and a longer 10 minute sequence of the Flight Day 3 highlights.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001745

**Title:** Lunar Explorer Video News Release

**Type:** Edited Video

**Category:** VNR

**Language** English and French

**Production Date** 00/00/00

**Length:** 18

**Comments:** <plain>The 1st Convention of Lunar Explorers was held on 10 March 2001 in Paris, at the Palais de la Decouverte. The main objective of the convention was to present ESA's SMART-1 mission to the Moon to the public and the press. This video includes background pre-event footage for the event, including 3-D graphics of SMART-1, atmo footage from the Palais de la Decouverte in Paris, and soundbites by ESA's SMART-1 specialists. It comprises of a 4 minute A-roll with split tracks and English commentary and a 13 minute B-roll. NB There are some dropouts during the A-roll. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001747

**Title:** Six Months on Mir

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 00/00/00

**Length:** 17

**Comments:** <plain>The last part in a three part series of about living and working in space told by ESA astronauts, the other two being "Space Walks" and "For Months in Space". This programme focuses on life on board the space station Mir with soundbites by ESA astronauts Jean-Pierre Haignere and Michel Tognini who have both spent time aboard Mir. Comparisons are also made between how it was to live and work on board Mir and what it will be like on board the new International Space Station. The 4 minute A-roll has split audio, English voiceover and is accompanied by a B-roll.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001747

**Title:** Six Months on Mir - M/E Version

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** M/E only

**Production Date** 00/00/00

**Length:** 17

**Comments** <plain>The last part in a three part series of about living and working in space told by ESA astronauts, the other two bei "Space Walks" and "For Months in Space". This programme focuses on life on board the space station Mir with soundb by ESA astronauts Jean-Pierre Haignere and Michel Tognini who have both spent time aboard Mir. Comparisons are als made between how it was to live and work on board Mir w what it will be like on board the new International Space Station. The 4 minute A-roll is accompanied by a B-roll, bot carry clean international sound. </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001748

**Title:** Europe and the De-orbiting of Mir

**Type:** Video Index

**Category:** Library material

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>The Mir space station will forever remain one of the greatest projects in the history of space exploration. It provided Russia with an almost uninterrupted presence in space for fifteen years. 103 astronauts have lived on Mir, 62 came from countries other than Russia, including eleven from Europe. Two ESA astronauts, Thomas Reiter from Germany and Jean-Pierre Hignere from France, each stayed six months on board. Mir's core module was launched by the Soviet Union on 19 February 1986. Thanks to its modular design, the station grew over time to almost 140 metric tons weight. Not only was Mir a strong political symbol for the Soviet Union but the end of the Cold War gave the station an international role, with co-operative research programmes in orbit, and hundreds of experiments carried out on Mir in the fields of medicine, biology, botany and materials science. Although regularly maintained, Mir has now reached the end of its life and the Russian government has decided to take it out of service. However, an object with a mass of 140 metric tons cannot just be abandoned, because atmospheric drag would gradually lower its altitude and Mir would end up re-entering the atmosphere in an uncontrolled manner before crashing somewhere onto the Earth. That's why the Russian authorities will carry out a controlled de-orbit. In the night 21-22 March 2001, a series of three firings of the rocket motors of a Progress space vehicle docked with Mir will lower the station's altitude and drive it down into the southern Pacific Ocean. During reentry, the thermal and mechanical stress will gradually break up the station and most of it will burn up in the atmosphere. Only between 10 and 20% of the initial mass should survive the fiery reentry and reach the Earth's surface, falling into the Ocean without causing damage. During the deorbiting, ESA's Operations Centre ESOC in Germany will serve as a central communication node between TSUP, the Russian Control Centre, and ESA. A German space radar will track Mir and its data sent to ESOC and TSUP. ESOC will use all available data to monitor the reentry and predict the point of impact. Also scientists at the French Space Agency's Orbitography Department in Toulouse will compute the Mir trajectory and compare it with real reentry data in order to compute an independent prediction. The demise of Mir in the atmosphere does not mean the end of permanently inhabited space stations. Since 02 November 2000, a permanent crew of three astronauts is living and working on the International Space Station, including at least one Russian Cosmonaut.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001749

**Title:** STS-102 Flight Day 5 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>A major part of the STS-102 mission to the International Space Station is to take up Leonardo the Italian built Multi Purpose Logistics Module (MPLM). The MPLM is one of three pressurized moving van modules designed to be taken into orbit, attached to the space station, and then, after unloading, brought back to the orbiter's cargo bay for return to Earth. Leonardo will be attached to the nadir, or Earth-facing berthing port of the Unity node, after the PMA 3 has been moved from the berthing port to an adjacent one on Unity's left side. This NASA downlink, taken on the 12 March 2001, contains Flight Day 5 highlights of STS-102 including the unberthing of Leonardo from Discovery's payload bay using the shuttle's robotic arm and its subsequent docking to the Unity module.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001750

**Title:** STS-102 Flight Day 8 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>Discovery's STS-102 flight is focused on outfitting the International Space Station (ISS), particularly the new U.S. laboratory, Destiny. This NASA downlink, taken on 15 March 2001, contains edited highlights of STS-102 flight day 8 and includes the setting up of the robotic workstations in the Destiny laboratory and live interviews with the crews.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00001751

**Title:** STS-102 Flight Day 12 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>After a successful mission to outfit the new US laboratory Destiny, and the ISS crew transfer the space shuttle Discovery undocks to return to Earth bringing home with them the Expedition One crew who have spent 4 months on board the ISS. This NASA downlink, taken on 19 March 2001, contains a 5 minute crew activity report and a longer edit of flight day 12 highlights which include the command transfer ceremony and the undocking and ISS flyaround of the space shuttle Discovery. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001752

**Title:** European Space Debris Conference

**Type:** Video Index

**Category:** various

**Language** International Sound

**Production Date** 00/00/00

**Length** 3

**Comments** <plain>Every satellite in orbit is threatened by any of the over 150.000 particles of space debris that populate the near-Earth space and are remnants of past satellites and launcher missions. Even a miniscule particle can cause huge damage because its speed is 28000 km/hour - ten times that of a bullet and hundred times its energy. Today, the danger is that the more satellites are launched, the more debris accumulates. On 19-21 March 2001, experts from around the world will gather at the 3rd European Conference on Space Debris at the European Space Agency's Operations Centre, ESOC in Darmstadt (Germany). They will discuss likely causes of space debris, its potential danger and means to avoid it. The worst cause of space debris is exploding upper rocket stages and satellites. This can be avoided by careful design, where such objects are depressurised after use. The, the geo-stationary orbit 36000 km above the Earth where all television satellites are positioned, is getting ever more crowded. Satellites should be ejected out of their orbit into a so-called graveyard orbit which is 300 km higher, at the end of their life. Likewise, satellites in low Earth orbit should be de-orbited at the end of their life. Also, the ejection of bigger pieces like protective lids, and the detachment of small particles from the surfaces of satellites should be avoided through an appropriate design. It is a striking coincidence that the European space debris conference is held at ESA's operations centre during the very same days when this centre will monitor how space station Mir is falling back on Earth; truly the biggest piece of space debris ever.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001752

**Title:** European Space Debris Conference

**Type:** Video Index

**Category:** various

**Language** International Sound

**Production Date** 00/00/00

**Length** 3

**Comments** <plain>Every satellite in orbit is threatened by any of the over 150.000 particles of space debris that populate the near-Earth space and are remnants of past satellites and launcher missions. Even a miniscule particle can cause huge damage because its speed is 28000 km/hour - ten times that of a bullet and hundred times its energy. Today, the danger is that the more satellites are launched, the more debris accumulates. On 19-21 March 2001, experts from around the world will gather at the 3rd European Conference on Space Debris at the European Space Agency's Operations Centre, ESOC in Darmstadt (Germany). They will discuss likely causes of space debris, its potential danger and means to avoid it. The worst cause of space debris is exploding upper rocket stages and satellites. This can be avoided by careful design, where such objects are depressurised after use. The, the geo-stationary orbit 36000 km above the Earth where all television satellites are positioned, is getting ever more crowded. Satellites should be ejected out of their orbit into a so-called graveyard orbit which is 300 km higher, at the end of their life. Likewise, satellites in low Earth orbit should be de-orbited at the end of their life. Also, the ejection of bigger pieces like protective lids, and the detachment of small particles from the surfaces of satellites should be avoided through an appropriate design. It is a striking coincidence that the European space debris conference is held at ESA's operations centre during the very same days when this centre will monitor how space station Mir is falling back on Earth; truly the biggest piece of space debris ever.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001753

**Title:** STS-98 Flight Day 1 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The primary objective of the shuttle mission STS-98 was to deliver and install the US Destiny Laboratory onto the International Space Station. Also, the STS-98 astronauts relocated the Pressurized Mating Adapter 2 from the Unity Node to the forward Common Berthing Mechanism on Destiny. These two primary tasks were performed with the aid of three space walks and the use of Space Shuttle Atlantis' robotic arm. The Crew comprised of Commander Ken Cockrell, Pilot Mark Polansky and Mission Specialists Robert Curbeam, Marsha Ivins and Thomas Jones. This NASA TV download, taken on 08 March 2001, provides a summary of final crew preparations, countdown and lift-off and flight orbital insertion. It comprises of a 3 minute edited crew activity report with English voiceover and longer flight day highlights with international sound.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001754

**Title:** STS-98 Flight Day 4 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 28

**Comments:** <plain>The primary objective of the shuttle mission STS-98 was to deliver and install the US Destiny Laboratory onto the International Space Station. Also, the STS-98 astronauts relocated the Pressurized Mating Adapter 2 from the Unity Node to the forward Common Berthing Mechanism on Destiny. These two primary tasks were performed with the aid of three space walks and the use of Space Shuttle Atlantis' robotic arm. The Crew comprised of Commander Ken Cockrell, Pilot Mark Polansky and Mission Specialists Robert Curbeam, Marsha Ivins and Thomas Jones. This NASA TV downlink (and glass-fibre feed), taken on 11 February 2001, features the installation of the US Laboratory Destiny to the International Space Station, the first space walk by Tom Jones and Robert Curbeam and also features a brief ammonia leak. The video comprises of a 4 minute crew activity report with English voiceover and a longer flight day highlights with international sound. WARNING - During recording the satellite downlink was disturbed and therefore this video contains dropouts, the feed was switched to a glass-fibre feed during recording so there is a considerable reduction in the quality of the images.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001755

**Title:** Satellite Navigation Story 2 (English)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English and German

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>Second in a four-part series about satellite navigation. This 4 minute A-roll, which is complemented by a longer B-roll, outlines the functioning and the limitations of the US-American GPS system and what the proposed civilian, European system Galileo, would contribute to the safety of transport, notably commercial air traffic and cars. The B-roll includes a wide variety of additional footage on all modes of transport: air, land, sea and maritime.</plain>

**Keywords:** SATELLITE NAVIGATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001755

**Title:** Satellite Navigation Story 2 (International Version)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>Second in a four-part series about satellite navigation. This is the International version which carries international sound and no commentary. The 4 minute A-roll, which is complemented by a longer B-roll, outlines the functioning and the limitations of the US-American GPS system and what the proposed civilian, European system Galileo, would contribute to the safety of transport, notably commercial air traffic and cars. The B-roll includes a wide variety of additional footage on all modes of transport: air, land, sea and maritime.</plain>

**Keywords:** SATELLITE NAVIGATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001756

**Title:** Space Debris

**Type:** Edited Video

**Category:** Documentary, technical

**Language** English

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>This item is an edited video on the space debris issu produced for the European Conferenc on Space Debris wh took place on 19-21 March 2001. It comprises of 3-D computer animations with slates and and English voiceover and illustrates the sources of space debris, their orbital distribution, associated risk potentials and possible mitigatio measures to conserve the earths environment for space activites in the future.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001756

**Title:** Space Debris (German)

**Type:** Edited Video

**Category:** Documentary, technical

**Language** German

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>This item is an edited video on the space debris issu produced for the European Conferenc on Space Debris wh took place on 19-21 March 2001. It comprises of 3-D computer animations with English slates and and German voiceover and illustrates the sources of space debris, their orbital distribution, associated risk potentials and possible mitigation measures to conserve the earths environment for space activites in the future.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001757

**Title:** Research: Innovation and Frontier Technologies 2001

**Type:** Video Index

**Category:** Library material

**Language**

**Production Date** 00/00/00

**Length:** 46

**Comments:** <plain>The European Commission has prepared a package of stock shots on aerospace research, plant biotechnology, medical biotechnology and nanotechnology, to illustrate the research section of the Stockholm Council of the European Union held 23-24 March 2001. The space research section includes about 20 minutes of images on astronaut training and missions of European astronauts, with clean international sound. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001758

**Title:** Space Research at the EGS's General Assembly

**Type:** Video Index

**Category:** various

**Language:** ME only

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>Space Science at the EGS Assembly in Nice. Geophysicists who attended the General Assembly of the European Geophysical Society in Nice, 25-31 March 2001, didn't just discuss the latest scientific research about the Earth. They also turned their attention to the other planets and bodies within our solar system and the missions Europe is sending to explore them. </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00001759

**Title:** STS-98 Flight Day 5 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>The STS-98 missions primary role was to take the new US laboratory Destiny to the International Space Station. After the docking of Destiny to the ISS it became the largest space station ever flown and it was time for the crew of the ISS and Space Shuttle Atlantis to enter the new space. This NASA TV downlink, taken on 12 February 2001, features the opening of the hatch to the new Destiny Laboratory with a statement by STS-98 commander Ken Cockrill, and the crews continued activation of the laboratory. The video comprises of a 3 minute edited crew activity report with English commentary and a longer Flight Day 5 highlights with international sound. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001760

**Title:** STS-98 Flight Day 6 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 19

**Comments:** <plain>The primary role of the STS-98 mission was to deliver the US Laboratory Destiny to the International Space Station with the aid of Space Shuttle Atlantis's robotic arm and 3 space walks. This NASA TV downlink, taken on 13 February 2001, features the installation of the shuttle dock port to the end of the newly attached Destiny Laboratory. It also includes the second of the three space walks planned for the STS-98 mission and performed by mission specialists Bob Curbeam and Tom Jones. The video comprises of a 4 minute edited crew activity report with English commentary and a longer Flight Day 6 Highlights with international sound.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001761

**Title:** STS-98 Flight Day 8 Highlights

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>The primary role of the STS-98 mission was to take the US Destiny Laboratory to the International Space Station and attach it with the aid of Space Shuttle Atlanta's robotic arm and 3 space walks. This NASA TV download, taken on 15 February 2001, features the third and final space walk of the mission performed by mission specialists Bob Curbeam and Tom Jones. This space walk also was a historical event as it was the 100th space walk in US Spaceflight history. The video comprises of a 5 minute edited crew activity report with English commentary and a longer Flight Day 8 Highlights with international sound.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001762

**Title:** Umberto Guidoni - prepares for his mission

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 16

**Comments:** <plain>The Italian ESA astronaut Umberto Guidoni is assigned to the Space Shuttle's STS-100 mission, scheduled for launch on 19 April 2001 and will be the first European onboard the International Space Station. On that flight, the Space Shuttle will deliver elements and equipment required for the ongoing assembly of the International Space Station. In particular, it will carry the Multi-Purpose Logistics Module (called Raffaello), provided by the Italian Space Agency and loaded with lab outfitting equipment, and it will deliver the Space Station Remote Manipulator System (SSRMS), the Canadian robotic arm that will be used extensively to assemble the Space Station. This 4 minute video with English commentary introduces the ESA astronaut and outlines his forthcoming mission to the ISS. Other footage includes Guidoni training in Houston and historical footage of his previous missions. The A-roll is complimented by a longer B-roll with clean international sound, there are also soundbites in Italian and English. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001762

**Title:** Umberto Guidoni - prepares for his mission

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 16

**Comments:** <plain>The Italian ESA astronaut Umberto Guidoni is assigned to the Space Shuttle's STS-100 mission, scheduled for launch on 19 April 2001 and will be the first European onboard the International Space Station. On that flight, the Space Shuttle will deliver elements and equipment required for the ongoing assembly of the International Space Station. In particular, it will carry the Multi-Purpose Logistics Module (called Raffaello), provided by the Italian Space Agency and loaded with lab outfitting equipment, and it will deliver the Space Station Remote Manipulator System (SSRMS), the Canadian robotic arm that will be used extensively to assemble the Space Station. This 4 minute video with English commentary introduces the ESA astronaut and outlines his forthcoming mission to the ISS. Other footage includes Guidoni training in Houston and historical footage of his previous missions. The A-roll is complimented by a long B-roll with clean international sound, there are also soundbites in Italian and English. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001763

**Title:** STS-100 - overview of mission

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 11

**Comments:** <plain>The STS-100 mission, due for launch on 19 April 2001, will take to the International Space Station the Canadian robotic arm and the Italian built Multi-Purpose Logistics Module Raffaello. On board this mission will be Italian ESA Astronaut, Umberto Guidoni, who will become the first European astronaut to visit the ISS. This 3-minute edited video with English commentary provides an overview to the STS-100 mission, including 3-D graphics and English statements by Umberto Guidoni. The A-roll is complemented by a longer B-roll which carries clean international sound.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001763

**Title:** STS-100 - overview of mission

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 11

**Comments:** <plain>The STS-100 mission, due for launch on 19 April 2001, will take to the International Space Station the Canadian robotic arm and the Italian built Multi-Purpose Logistics Module Raffaello. On board this mission will be Italian ESA Astronaut, Umberto Guidoni, who will become the first European astronaut to visit the ISS. This 3-minute edited video with English commentary provides an overview to the STS-100 mission, including 3-D graphics and English statements by Umberto Guidoni. The A-roll is complemented by a longer B-roll which carries clean international sound.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001764

**Title:** ISS - 5 months of crewed operations

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>The International Space Station has been manned since the Expedition One Crew were launched on the 02 November 2000. Since then a considerable amount of construction to the ISS has taken place with missions in December, January, February and March. One of the more recent missions, STS-98, took up and attached the Destiny laboratory which made the ISS the largest Space Station ever flown. This 3 minute edited video with English commentary features the highlights of missions to the International Space Station since it was manned in November last year. The A-roll is complimented by a longer B-roll with clean international sound. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001764

**Title:** ISS - 5 months of crewed operations

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>The International Space Station has been manned since the Expedition One Crew were launched on the 02 November 2000. Since then a considerable amount of construction to the ISS has taken place with missions in December, January, February and March. One of the more recent missions, STS-98, took up and attached the Destiny laboratory which made the ISS the largest Space Station ever flown. This 3 minute edited video with English commentary features the highlights of missions to the International Space Station since it was manned in November last year. The A-roll is complimented by a longer B-roll with clean international sound. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001765

**Title:** ESA Parabolic Flight Campaign 2000

**Type:** Video Index

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>16 - 27 October 2000 - A lucky group of European students had the once-in-a-lifetime chance to experience weightlessness in an initiative from ESA. Students were invited to submit proposals for conducting experiments under this condition - and were selected on that basis. They got to conduct their experiment as they went up in a special plane that created the same conditions as in space. Over the fortnight from 16 to 27 October 2001 ESA parabolic flight campaign gave some 30 international student teams of researchers (approximately 120 students all) the chance to experience near-zero gravity (weightlessness). A specially adapted Airbus A-300 took off from Bordeaux-Mérignac airport in France to carry out experiments in weightlessness and test instruments and equipment prior to spaceflight. In parabolic flight, the aircraft is put into a specially-shaped trajectory that provides free-fall, or weightlessness. This weightless experience, over the duration, is exactly that experienced by astronauts on orbital missions. Each flight begins by having the aircraft perform an aerobatic manoeuvre, which starts from level flight, and pitches up to approximately 45 degrees nose-high and wings level subjecting the passengers to a 2-g pull up lasting about ten seconds. After that, the aircraft engines are powered back and the airplane is launched into the same parabolic trajectory that a ball would follow, providing everyone inside the airplane with around twenty-five to thirty seconds of total weightlessness for experimentation purposes. At the bottom of the parabola, the aircraft slowly pulls out of its dive and levels off for the next arc, restoring weight to the cabin. This B-roll contains footage from the 2000 campaign it includes 3-D graphics of the flight path and carries clean international sound</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001766

**Title:** Claudie Andre-Deshays - prepares for her mission

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>In October 2001, ESA's French woman astronaut Claudie Andre-Deshays, will be travelling to the International Space Station on a Soyuz taxi flight -- the same opportunity used these days by the US American Dennis Tito.

This programme item includes a presentation of Andre-Deshays, and new footage of her training for this mission in Star City, as well as images of her Perseus mission to Mir, in 1996. The 4-minute A-roll is complemented by a 10-minute B-roll. Close this window

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**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00001768

**Title:** XEUS Presentation (Graphics and Real Images)

**Type:** Edited Video

**Category:** VNR

**Language:** English

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>XEUS is an imaginative mission under study by ESA. XEUS will be a long lived Z-ray observatory in space with a sensitivity comparable to the most advanced future facilities such as NGST, ALMA and Hershel. The goal of XEUS is nothing less than the study of the first black holes, created when the Universe was just a few percent of its current age. XEUS is imagined to be built in two stages: First XEUS-1 would be launched like a satellite, or better, two satellites; however, the x-ray mirror block and the detector module are separated by several dozen metres, and are kept aligned to extreme accuracy in orbit. The second stage of XEUS involves the International Space Station. Its logistical capabilities, and its robotic arm, will be used to assemble in orbit a telescope with 30 sqm x-ray mirror size. This video provides background information on the concept of XEUS and includes a 4 minute A-roll with 3-D graphics, real images and an English commentary and a longer B-roll with clean international sound.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001769

**Title:** Satellite Navigation Story 3 (English)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>The third programme in a series of four about satellit navigation. This programme looks at satellite navigation in tl car and how it is being developed in places such as Wetzle in Germany. It investigates how the quality of a journey is improved by having these built in satellite navigation systerr in the car, and how they can help in finding the way round completely unknown location. The 5 minute A-roll w ith English commentary is complemented by a longer B-roll witt clean international sound.</plain>

**Keywords:** SATELLITE NAVIGATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001769

**Title:** Satellite Navigation Story 3 (International Version)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>The third programme in a series of four about satellit navigation. This programme looks at satellite navigation in tl car and how it is being developed in places such as Wetzle in Germany. It investigates how the quality of a journey is improved by having these built in satellite navigation systerr in the car, and how they can help in finding the way round completely unknown location. The 5 minute A-roll, complemented by a longer B-roll, is the international version of the programme and only carries clean international sound.</plain>

**Keywords:** SATELLITE NAVIGATION

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00001770

**Title:** X38 with Frank De Winne

**Type:** Edited Video

**Category:** Interviews

**Language** English

**Production Date** 00/00/00

**Length** 21

**Comments** <plain>The immediate goal of the innovative X-38 project, is to develop the technology for a prototype emergency CRV, lifeboat, for the ISS. The project also intends to at develop a crew return vehicle design that could be modified for other uses, such as a possible joint U.S. and international human spacecraft that could be launched on the French Ariane 5 booster. In the early years of the International Space Station, a Russian Soyuz spacecraft will be attached to the station as a CRV. But, as the size of the crew aboard the station increases, a return vehicle that can accommodate up to six passengers will be needed. The X-38 design uses a lifting body concept originally developed by the Air Force's X-24A project in the mid-1970's. After the deorbit engine module is jettisoned, the X-38 would glide from orbit unpowered like the Space Shuttle and then use a steerable parafoil parachute, a technology recently developed by the Army, for its final descent to landing. Its landing gear would consist of skids rather than wheels. ESA's involvement in the X-38 principally includes its aerodynamic design as well as its landing technology which includes a parafoil and guidance software. This 5 minute A-roll is an interview with Test Pilot and ESA Candidate Astronaut Frank de Winne in both English and French. It is complemented by a longer B-roll which includes 3-D graphics and the early testing of X-38. It carries split tracks one with English commentary by Frank de Winne and the other with clean international sound.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001771

**Title:** Satellite Navigation Story 4 (English)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** English

**Production Date** 00/00/00

**Length:** 12

**Comments** <plain>The final programme in a four part series on satellite navigation. This programme explores how VDO are developing navigation systems for cars of the future, concentrating on a multi functional systems that can be use for entertainment purposes as well as finding the way. This 3-minute A-roll with English commentary is complemented b a longer B-roll with clean international sound.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001771

**Title:** Satellite Navigation Story 4 (International Version)

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language** International Sound

**Production Date** 00/00/00

**Length:** 12

**Comments** <plain>The final programme in a four part series on satellite navigation. This programme explores how VDO are developing navigation systems for cars of the future, concentrating on a multi functional systems that can be use for entertainment purposes as well as finding the way. This 3-minute A-roll is the international version and carries only clean international sound, it is complemented by a longer B-roll. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001772

**Title:** Hubble Unveils A Galaxy in Living Colour

**Type:** Edited Video

**Category:** VNR

**Language** M/E only

**Production Date** 00/00/00

**Length:** 9

**Comments:** <plain>Heic0106 - Hubble Unveil A Galaxy in Living Colour. On the 31 May 2001 the new Hubble space telescope results were released. This edited video comprises of new Hubble Space Telescope 3-D graphic animations and animations of the new results. There is a short edited A-Roll and a longer Roll both of which carry M&E only.</plain>

**Keywords** HUBBLE SPACE TELESCOPE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00001774

**Title:** Artemis Compilation ESA/ALENIA

**Type:** Edited Video

**Category:**

**Language**

**Production Date** 07/06/1901

**Length:** 14

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001774

**Title:** Artemis Compilation ESA/ALENIA

**Type:** Edited Video

**Category:**

**Language**

**Production Date** 07/06/1901

**Length:** 14

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00001775

**Title:** ISS Forum 2001 - Pre-event Footage

**Type:** Edited Video

**Category:** miscellaneous

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>From 5 to 7 June 2001, the "ISS Forum 2001" brought together all international partners in the ISS to present the complete spectrum of industrial use of the ISS, including how to book space on the ISS and how much this will cost. The event was held at the Estrel Convention Centre in Berlin. Fifteen countries, including ten European nations, are involved in constructing, operating and exploiting the ISS. ISS Forum 2001 informed potential users about management and engineering aspects of the ISS programme; it was aimed at companies that have an interest in exploiting the R&D environment offered by this space-borne 'technology incubator'. What is at stake is the competitive edge to be gained by incorporating its unique possibilities in corporate R&D programmes. This is a 4 minute pre-event footage package on the International Space Station Forum 2001, it carries clean international sound only.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001776

**Title:** ESA : ILA 2000 Compilation

**Type:** Edited Video

**Category:**

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 40

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00001777

**Title:** The First European to the ISS

**Type:** Edited Video

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 14

**Comments:** <plain>Umberto Guidoni made history by becoming the first European astronaut to visit the International Space Stations. This short programme was made prior to the Shuttle launch on the 19 April 2001, which carried Guidoni to the space station along with the ASI built MPLM Raffaello and also the new Canadian robotic arm Canadarm2. It introduces the Italian astronaut, outlines his mission to the ISS, includes footage of his previous mission to space and also English soundbites. The 3 minute A-roll with split tracks and English commentary is complemented by a longer B-roll with clean international sound.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100002

**Title:** Giotto: part 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 07/01/1992

**Length:** 63

**Comments:** <plain>Part one of a recording of the "live" coverage of Giotto's encounter with Comet Grigg-Skjellerup, in 1992 at ESA/ESOC.</plain>

**Keywords:** SPACE SCIENCE,GIOTTO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100003  
**Title:** Giotto: part 2  
**Type:** Selected Rushes  
**Category:** live-action recordings  
**Language** English  
**Production Date** 00/00/00  
**Length:** 46  
**Comments:** <plain>Part two of a recording of the "live" coverage of Giotto's encounter with Comet Grigg-Skjellerup, in 1992 at ESA/ESOC.</plain>  
**Keywords** SPACE SCIENCE,GIOTTO  
**Shotlist** <plain></plain>  
**Use:** broadcast

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**Pouction no.** 00100004  
**Title:** Hubble Space Telescope: Solar Array Replacement Footage  
**Type:** Selected Rushes  
**Category:** live-action recordings  
**Language** English  
**Production Date** 01/01/1993  
**Length:** 6  
**Comments:** <plain>In 1993, the NASA space shuttle Endeavour linked with the Hubble Space Telescope. During this mission (STS 61) replacement of one of the solar arrays, which power the telescope, was performed. This short film contains footage of the operation. </plain>  
**Keywords** SPACE SCIENCE,MANNED SPACEFLIGHT,HUBBLE SPA  
**Shotlist** <plain></plain>  
**Use:** broadcast,commercial

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**Pouction no.** 00100005  
**Title:** CSG Helicopter Rushes 1993.  
**Type:** Rushes  
**Category:** live-action recordings  
**Language** M/E only  
**Production Date** 01/01/1993  
**Length:** 31  
**Comments:** <plain>Footage of Centre Spatiale Guyanais recorded from helicopter. </plain>  
**Keywords** ESA GENERAL,CSG KOUROU  
**Shotlist** <plain></plain>  
**Use:** broadcast,commercial

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**Pouction no.** 00100006

**Title:** CSG Ground Rushes.

**Type:** Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 09/01/1993

**Length:** 110

**Comments:** <plain>Ground rushes of Centre Spatiale Guyanais. Much coverage of Ariane launcher systems, culminating in a satellite launch.</plain>

**Keywords:** LAUNCHERS,ESA GENERAL,CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100008

**Title:** France 2 Compilation: part one

**Type:** Rushes

**Category:** Library material

**Language:** Various

**Production Date:** 00/00/00

**Length:** 34

**Comments:** <plain>Useful material includes: footage of television broadcasting studios; news receiving station, showing operators obtaining feeds from around the World, various images on screen, computer monitors, telecommunications; rotating Earth animation; ESRO/ELDO typewriter animation; ERS-1 SAR output; ESRO/ELDO merging graphics; Euromir graphics; windmills; 19th century illustrations.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100009

**Title:** France 2 Compilation: part two

**Type:** Rushes

**Category:** Library material

**Language:** Various

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>Useful material as follows: "Le Commencement ou la Fin?", 1940s footage concerned with radioactivity, newsreel style, atomic explosion; Bosnian conflict footage (?); circa 1910 footage of Bristol Hotel, alongside contemporary footage, renovation; Sarejevo, conflict footage, missiles; oil tanker spillage (Aegean Sea), blaze, slick; Dubai desert rally; more war images, Sarajevo, Jordan/ slow-mo missile launches and flights/ modern biplane display, crash/ solar-powered vehicle/ holidaymakers, beach, bathing, sunbathing. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100011

**Title:** EAC Press Conference - part 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 34

**Comments:** <plain>Coverage of the European Astronaut Centre Press Conference. Topic: mission team for Euromir '95.</plain>

**Keywords:** EUROMIR,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100011

**Title:** EAC Press Conference - part 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 34

**Comments:** <plain>Coverage of the European Astronaut Centre Press Conference. Topic: mission team for Euromir '95.</plain>

**Keywords:** EUROMIR,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100012

**Title:** EAC Press Conference - part 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 61

**Comments:** <plain>Coverage of the European Astronaut Centre's annual conference. Topic covered: mission crew for Euromir '95.</plain>

**Keywords:** EUROMIR,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100012

**Title:** EAC Press Conference - part 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 61

**Comments:** <plain>Coverage of the European Astronaut Centre's annual conference. Topic covered: mission crew for Euromir '95.</plain>

**Keywords:** EUROMIR,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100014

**Title:** Zero-G Parabolic Experience

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 29

**Comments:** <plain>When an aircraft takes an inverse parabolic path relative to the Earth, a microgravity situation occurs inside the aircraft for a short time. This video illustrates the phenomenon, containing footage of ESA personnel undergoing such an experiment.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100014

**Title:** Zero-G Parabolic Experience

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 29

**Comments:** <plain>When an aircraft takes an inverse parabolic path relative to the Earth, a microgravity situation occurs inside the aircraft for a short time. This video illustrates the phenomenon, containing footage of ESA personnel undergoing such an experiment.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100016  
**Title:** Euromir '95: Training  
**Type:** Selected Rushes  
**Category:** live-action recordings  
**Language** Natural Sound Only  
**Production Date** 01/01/1995  
**Length:** 0  
**Comments** <plain>Footage showing the Euromir '95 crew survival training in harsh weather conditions and in water; releasing flares, etc.</plain>  
**Keywords** RKA,EUROMIR  
**Shotlist** <plain></plain>  
**Use:** broadcast,commercial

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**Pouction no.** 00100016  
**Title:** Euromir '95: Training  
**Type:** Selected Rushes  
**Category:** live-action recordings  
**Language** Natural Sound Only  
**Production Date** 00/00/00  
**Length:** 0  
**Comments** <plain>Footage showing the Euromir '95 crew survival training in harsh weather conditions and in water; releasing flares, etc.</plain>  
**Keywords** RKA,EUROMIR  
**Shotlist** <plain></plain>  
**Use:** no use

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**Pouction no.** 00100018  
**Title:** Virtual Space Station  
**Type:** Original Material  
**Category:** Graphics  
**Language** Mute  
**Production Date** 10/01/1995  
**Length:** 17  
**Comments** <plain>An animation to illustrate the proposed structure of the International Space Station.</plain>  
**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION  
**Shotlist** <plain></plain>  
**Use:** broadcast,commercial

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**Pouction no.** 00100018

**Title:** Virtual Space Station

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>An animation to illustrate the proposed structure of the International Space Station.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100019

**Title:** STS-75 Crewtraining - part 2.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1995

**Length:** 14

**Comments:** <plain>An overview of crewtraining for the mission STS-75 the Columbia mission, involving ESA astronauts C. Nicollier and M. Cheli, scheduled for February 22nd 1996. Footage covers pre-launch ingress and fixed base simulator training</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100020

**Title:** STS-75 Crewtraining - part 1.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1995

**Length:** 16

**Comments:** <plain>An overview of crewtraining for the mission STS-75 the Columbia mission, involving ESA astronauts C.Nicollier and M. Cheli, scheduled for February 22nd 1996. Crew members are taken through procedures of equipment assembly, underwater craft maintenance exercises, </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100022

**Title:** ISO: First Results

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 02/14/1996

**Length:** 106

**Comments:** <plain>Following the launch of the Infrared Space Observatory (ISO) in November 1995, this video contains footage of the February 1996 press conference to discuss first results obtained from the satellite. Speakers present: Roger Bonnet, ESA science director; Hans Steinz, ISO project manager; Martin Kessler, ISO project scientist; Peter Clegg, long-wavelength spectrometry; Thijs de Graw, short wavelength spectrometry; Dietrich Lemke, imaging photometry; Catherine Cesarsky, camera; and Jean-Marie Luton, ESA director-general. The conference is augmented by slides throughout, and ends with a session for question: the panel.</plain>

**Keywords:** ISO,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100024

**Title:** Soho: First Results

**Type:** Original Material

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 01/01/1995

**Length:** 9

**Comments:** <plain>ESA's SOHO astronomical satellite was launched on December 2nd, 1995. This film is a compilation of images of the Sun received from SOHO. The index includes ultraviolet (EIT) images, visible light coronagraph (LASCO) images, oscillation (MDI) images and computer-generated images.</plain>

**Keywords** SOHO

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100025

**Title:** Lasco: Comet Hyakutake Rushes

**Type:** Rushes

**Category:** Interviews

**Language** English

**Production Date** 00/00/00

**Length:** 15

**Comments:** <plain>The comet Hyakutake, which has an orbit of 10,000 years, passed through the outer corona of the sun between 29th April and 6th May 1996. Its passage was observed over this period by the joint ESA/NASA astronomical satellite SOHO (Solar and Heliospheric Satellite), utilising the Naval Research Laboratory's LASCO (Large-Angle Spectrometric Coronagraph) instrument. This film explains how, by studying the passage of Hyakutake, we may learn about the behaviour of the Sun's corona from its effect upon the comet's three tails. There are also screen images which show the passing of the comet through the Sun's atmosphere.</plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100026

**Title:** ATV - HST - Alpha

**Type:** Original Material

**Category:** Graphics

**Language** M/E only

**Production Date** 00/00/00

**Length:** 8

**Comments** <plain>An animation sequence illustrating the components, and overall function, of the proposed International Space Station Alpha.</plain>

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100028

**Title:** Atlantic Flybys.

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 01/01/1993

**Length:** 74

**Comments** <plain>An animation series created using information obtained from the radar altimeter of ERS-1. A "flyby" sequence has been formulated, showing land masses and sea bed topography in the Atlantic region. </plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100029

**Title:** Ariane 4: rushes part 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1988

**Length:** 18

**Comments:** <plain>Rushes showing the moving assembly building used in the construction of Ariane 4. Footage focusses on the h structure as a whole, on the moving wheels, pistons, construction personnel and culminates in shots of the structure set against the moon.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100030

**Title:** Ariane 4: rushes part 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1988

**Length:** 21

**Comments:** <plain>Rushes of Ariane 4 launcher in assembly building, interior of assembly building, men working around the launcher at various levels, and rising platform section with mechanism.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100031

**Title:** Ariane 4: rushes part 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1988

**Length:** 23

**Comments:** <plain>Rushes of the transportation of Ariane 4 to its launch tower. Including shots of: launcher pulled on platform by lor from many different angles (wheels, tracks etc.), engineerii workers, walkie talkies, watching crowds, helicopter flying past launcher, launch tower.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100033

**Title:** Ariane 4: rushes part 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1988

**Length:** 25

**Comments:** <plain>Rushes of Ariane 4; includes shots of construction tower, launch column, engineering workers, and launch platform arms closing around Ariane.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100036

**Title:** STS-66: tape 2.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1994

**Length:** 88

**Comments:** <plain>Footage of the STS-66 (Atlas 3) mission to study the Earth's atmosphere, launched on November 3rd 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist; ESA's Jean-Francois Clervoy, mission specialist; and Scott Parazynski, mission specialist. The tape contains footage of the following scenes: two different camera angles of satellite release, followed by view of Earth's surface; in-flight inter with Ellen Ochoa, who explains the purpose of the Atlas-2 and -3 missions, displays a model of the payload bay and explains the function of the Solcon (Solar Constant) measuring instrument; Ellen Ochoa on flight deck with another crew member, studying data and receiving a coordination message; various crew members, taking photographs, informal chat between control centre and crew members, two members left in frame study data; long range tracker (11/3/94), footage of launch with mission control contact audio overlay.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100037

**Title:** STS-66: tape 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1994

**Length:** 87

**Comments:** <plain>Footage of the STS-66 (Atlas 3) mission to study the Earth's atmosphere, launched on November 3rd 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist; ESA's Jean-Francois Clervoy, mission specialist; and Scott Parazynski, mission specialist. The tape contains footage of the follow ir scenes: an in-flight interview with Scott Parazynski who explains that the Atlas 3 mission's role is to study the chemical constituents of, and solar physics behind, the Earth's atmosphere; description of the solar spectrum experiment, Solspec, which measures change in solar ene output; a live link-up between the crew, Houston and ESA; French interview with Clervoy; a crew press conference, involving the United States and European press (questions range from technical to personal, and are in English and French); flight deck footage- studying charts, taking photographs through windows; an ESA interview with Cler including payload footage; control centre, coordination graphics screen output, with Clervoy live V/O conducting a ESA educational interview.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,HERMES

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100038

**Title:** STS-66: tape 5

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 10/01/1994

**Length:** 32

**Comments:** <plain>Footage of the STS-66 (Atlas 3) mission to study the Earth's atmosphere, launched on November 3rd, 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist; ESA's Jean-Francois Clervoy, mission specialist; and Scott Parazynski, mission specialist. The tape contains the following scenes: the Atlantis shuttle approaching Earth and landing; three replays with voiceovers, entitled LRO-1, LRO-2, Helo, Nasa select. The shuttle landed on 14th November 1994, at the Edwards air force base in California. The end of the tape contains a post-landing crew briefing, consisting mainly of responses to press questions.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100039

**Title:** STS-66: tape 4.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1994

**Length:** 80

**Comments:** <plain>Footage of the STS-66 (Atlas 3) mission to study the Earth's atmosphere, launched on November 3rd 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist; ESA's Jean-Francois Clervoy, mission specialist; and Scott Parazynski, mission specialist. The tape contains the following scenes: in-orbit footage of payload arm, Earth's surface comes into view; flight deck footage, McMonagle with camera, crew take photos from window, various crew footage; Clervoy makes his way through the shuttle; view from mid-deck side hatch the Earth and payload; astronaut point-of-view shots, rotation in microgravity, camcorder tour of shuttle, flight deck, instrument panels etc.; Clervoy performs Albert (Advanced Lower Body Extremities Restraint Test) exercises; computer on flight deck; Joe Tanner repairs a camera system; Ellen Ochoa holds up an Atlas, Clervoy points at France and gives the "thumbs up"; Ellen Ochoa talks on the Sun's position relative to the shuttle; view from shuttle window, showing manipulator arm; shuttle coordination screen output; view of landing site and ground crew; coordination graphics as Atlantis approaches landing site; control room; Atlantis approaching Edwards facility, control room V/O; landing sequence, shuttle on landing runway. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100041

**Title:** STS-60 Mission Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1994

**Length:** 58

**Comments:** <plain>The NASA STS-60 Discovery mission was launched on February 3rd, 1994. The mission was significant as the first flight of a Russian cosmonaut (Sergei K. Krikalev, mission specialist) onboard an American shuttle. NASA crew members were Charles Bolden, commander; Kenneth Reightler, pilot; N. Jan Davis, mission specialist; Ronald Sega, mission specialist; and Franklin Chang-Diaz, mission specialist. Payload components were the Wake Shield, SPACEHAB 2, COB/GBA, SAREX 11, APE-B, ODERACS, BREMSAT and CPL. This film shows highlights from the mission. Footage is organised as follows: PRE-LAUNCH AND LAUNCH: pre-launch temperature measurements, astronauts in launch suits, pre-flight preparation; crew depart from operations at checkout building; entry into vehicle at 195ft level; crew walk across Orbiter access arm, enter shuttle; view of pre-launch tower, access arm retracted, crew member shuts visor; window being dumped on launchpad, booster ignition and lift off; solid fuel boosters jettisoned, booster falling through Earth's atmosphere, control room. ACTIVATION OF SPACEHAB AND SPACEAB ACTIVITIES: opening of payload bay doors, payload instruments with a clear view of Spacehab; passing into Spacehab, instrument panels; crew member talks briefly on organisation of Spacehab; camcorders to monitor crystal growth; various experiments; removing drink containers from fridge; taking blood samples; various medical experiments; astronaut with sensors positioned over his head. WAKE SHIELD FACILITY OPERATIONS, ODERACS DEPLOYMENT, BREMSAT DEPLOYMENT: movement of robotic arm with Earth in the background, grapple at top of wake shield, facility on arm with Earth in background; photographing facility through shuttle window, flight deck; rotation of Wake Shield to align horizontal sensor and scan wheel more directly to the Sun; rotating wheel of Wake Shield; operations panel of robotic arm; Oderacs and Bremsat deployment. EARTH VIEWS: various shots of the Earth's surface, crew taking photographs through windows. RE-ENTRY PREPARATION <br>ND RE-ENTRY: testing the shuttle's propulsion system, crew get into orange suits; flight deck at re-entry. LANDING: Discovery circles at 50,000 feet approaching the runway, main gear touchdown, drag chute opens, nose gear touchdown, control room. CREW ONBOARD ACTIVITIES: pedalling exercise; washing, shaving and cleaning teeth; eating; crew sing in Russian.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100042

**Title:** Clervoy Interview: February 1997

**Type:** Rushes

**Category:** Interviews

**Language:** French and English

**Production Date:** 02/01/1997

**Length:** 16

**Comments:** <plain>Interviews in French and English with ESA astronaut Jean-Francois Clervoy, focussing mainly on the forthcoming Orbiter mission to Mir and ESA's role in the International Space Station. The interview takes place in Houston, Texas. Footage is included of Clervoy with his family next to an American rocket, also playing football in a garden with his sons.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100043

**Title:** Ministerial Conference: 1995 Final Press Conference.

**Type:** Rushes

**Category:** live-action recordings

**Language:** French

**Production Date:** 10/20/1995

**Length:** 46

**Comments:** <plain>Speakers include the Belgian Minister of Science, Yvan Ylief; Jean-Marie Luton, ESA's director-general; and Francois Fillon, the French Minister of Postage, Telecommunications and Space.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100043

**Title:** Ministerial Conference: 1995 Final Press Conference.

**Type:** Rushes

**Category:** live action

**Language:** French

**Production Date:** 10/20/1995

**Length:** 46

**Comments:** <plain>Speakers include the Belgian Minister of Science, Yvan Ylief; Jean-Marie Luton, ESA's director-general; and Francois Fillon, the French Minister of Postage, Telecommunications and Space.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100044

**Title:** Ministerial Conference: 1995 Press Conference Minister Rei

**Type:** Rushes

**Category:** live-action recordings

**Language:** German

**Production Date:** 10/19/1995

**Length:** 25

**Comments:** <plain>Conference given by the German Space Minister, Ruttgers, on October 19th 1995. The focus is the status of deliberations of the previous ESA ministerial conference.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100044

**Title:** Ministerial Conference: 1995 Press Conference Minister Rei

**Type:** Rushes

**Category:** live action

**Language:** German

**Production Date:** 10/20/1995

**Length:** 25

**Comments:** <plain>Conference given by the German Space Minister, Ruttgers, on October 19th 1995. The focus is the status of deliberations of the previous ESA ministerial conference.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100045

**Title:** Hurricane Andrew

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/08/1993

**Length:** 2

**Comments:** <plain>A 'fly-through' simulation of Hurricane Andrew.</pla

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100045

**Title:** Hurricane Andrew.

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/01/1993

**Length:** 2

**Comments:** <plain>A 'fly-through' simulation of Hurricane Andrew.</pla

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100046

**Title:** ERS-2: Construction Telecine.

**Type:** Rushes

**Category:** miscellaneous

**Language:** Mute

**Production Date:** 06/01/1994

**Length:** 38

**Comments:** <plain>Rushes of material depicting the construction of ERS 2, Europe's remote sensing satellite launched on April 21st, 1995. The structure of the satellite is shown from many different angles. The video also contains 'flyover' sequences formed from remote-sensed images, some illustrating the curvature of the Earth.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100046

**Title:** ERS-2: Construction Telecine.

**Type:** Rushes

**Category:** miscellaneous

**Language:** Mute

**Production Date:** 06/01/1994

**Length:** 38

**Comments:** <plain>Rushes of material depicting the construction of ERS 2, Europe's remote sensing satellite launched on April 21st, 1995. The structure of the satellite is shown from many different angles. The video also contains 'flyover' sequences formed from remote-sensed images, some illustrating the curvature of the Earth.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100049

**Title:** STS-55: Special Events

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Various

**Production Date:** 04/17/1997

**Length:** 28

**Comments:** <plain>The Columbia STS-55 (Spacelab D2) mission was launched on April 26th, 1993. This film shows events from the mission, which included ESA astronauts Schlegel and Walter. Footage as follows: Houston conference with crew member who discusses child's picture forwarded to the shuttle; German crew conference; conference with RTO German television, some poor telecommunications links; conference links with various press agencies; crew members wear red and blue shirts to correspond to shift; camera rec out; Houston control centre; screen output, position of shuttle; audio link with German press resumed; Houston link with NASA astronaut.</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,NASA GENERAL,MANN

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100052

**Title:** STS-46 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>Post-flight presentation of the STS-46 Atlantis (Eureca 1) mission, launched on July 31st 1992. The film incorporates a video presentation, which includes the following footage: crew are helped into their orange suits; night launch; space sunrise; opening of payload bay doors; deployment of Eureca with robotic manipulator arm, opening of solar rays; shots of Eureca, raising boom to release tethered satellite; TSS boom pointing satellite towards Earth; oscillation of tether, satellite, boom retracted; crew with cameras, views of Earth (Java, burning Amazon forests, Central America, eye of storm); changing camera batteries; crew play volleyball, angular momentum conservation demonstration using apples; exercising; air-to-air footage of shuttle re-entry, landing, crew stand in front of shuttle. The film is also a collection of slides, including images of: medical experiments; Earth's surface - volcanoes, deforestation in the Amazon basin, mouth of the Amazon, Sahara Desert, the Nile, Kuwait and the scars of the oil-well fires, smoke-plume from Northern Territory of Australia, volcano, typhoon Janice, equatorial Pacific, </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100053

**Title:** STS-61 Post-Flight Presentation.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/04/1994

**Length:** 33

**Comments:** <plain>The NASA mission STS-61 was launched on December 2nd, 1993 - its mission to service and repair the joint ESA/NASA Hubble Space Telescope. This presentation given by the seven-strong crew of the American shuttle Endeavour, summarizes the mission with a collection of slides and video footage. Astronauts as follows: Richard Covey, commander; Kenneth Bowersox, pilot; ESA's Claude Nicollier, mission specialist; Story Musgrave, payload commander; Jeff Hoffman, mission specialist; Tom Akers, mission specialist; and Kathy Thornton, mission specialist.  
</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100053

**Title:** STS-61 Post-Flight Presentation.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/04/1994

**Length:** 33

**Comments:** <plain>The NASA mission STS-61 was launched on December 2nd, 1993 - its mission to service and repair the joint ESA/NASA Hubble Space Telescope. This presentation given by the seven-strong crew of the American shuttle Endeavour, summarizes the mission with a collection of slides and video footage. Astronauts as follows: Richard Covey, commander; Kenneth Bowersox, pilot; ESA's Claude Nicollier, mission specialist; Story Musgrave, payload commander; Jeff Hoffman, mission specialist; Tom Akers, mission specialist; and Kathy Thornton, mission specialist.  
</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100054

**Title:** STS-66 Post-Flight Presentation (Clervoy).

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 11/28/1994

**Length:** 16

**Comments:** <plain>An overview of the 1994 NASA mission STS-66; launch coverage, in-flight footage, shuttle landing. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100054

**Title:** STS-66 Post-Flight Presentation (Clervoy)

**Type:** Selected Rushes

**Category:** live action

**Language:** Mute

**Production Date:** 11/28/1994

**Length:** 16

**Comments:** <plain>An overview of the 1994 NASA mission STS-66; launch coverage, in-flight footage, shuttle landing. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100055

**Title:** STS-75 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 03/27/1996

**Length:** 38

**Comments:** <plain>A post-flight press conference given by the crew of NASA STS-75 (Columbia) mission, launched on February 22nd 1996. Crew members: Andrew Allen, commander; Sc Horowitz, pilot; Jeff Hoffman, mission specialist; ESA's Maurizo Cheli, mission specialist; ESA's Claude Nicollier, mission specialist; Franklin Chang-Diaz, payload commande Umberto Guidoni, mission specialist. The entire mission is described using slides and video footage; highlights include launch, satellite deployment, microgravity experiments involving material combustion, in-flight cuisine, spectacular i orbit photographs of the Earth, and re-entry. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100056

**Title:** STS-80 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1997

**Length:** 41

**Comments:** <plain>A presentation of the 18-day NASA Columbia missic STS-80. Launched in 1996, this project deployed the Orfeus Spas astronomical spectrograph observation payload and Wakeshield semiconductor experiment. Astronauts involved were Tammy Jernigan, Tom Jones, Story Musgrave, Kent Rominger and Ken Cockrell. The presentation is facilitated b the use of slides and a video, which detail the mission stag and make use of some in-flight images. Still images as follows: day launch; Orfeus Spa; various crew members at flight deck; Wakeshield unberthed from payload bay; Wakeshield after deployment; Wakeshield after grapple ove Pacific Ocean; Jernigan in EVA suit; Earth observation - Re Sea and Suez Canal, Nile Delta; eye of Cyclone Daniella; coastline of Bahamas; Mount Everest; Phillipines, volcano; Hawaiian island, Pearl Harbour; Orfeus Spas; shuttle landing. Video images: pre-launch assembly, suiting-up and launch, SRB jetisson; payload doors open; crew in flight de grapple of Orfeus Spas, removal from payload bay, deployment; crew on mid-deck, pump-loop experiment; Canada arm with logo visible; Space Experiment Module (SEM) in payload bay; Wakeshield brought out of protective cone, cleaning in atomic oxygen, various shots of Wakeshie on arm, deployment; two satellites in formation with each other; crew eating; vacuuming filters; camera recording equipment; thruster burns for orbit adjustment; Wakeshield i gunsight; Wakeshield brought into payload bay, various views; Jernigan with long-lens camera; polishing Musgrave head; polishing EVA helmets; crew with power tools; gettin into EVA suits; attempt to open hatch, failure; setting moon; grapple of Orfeus Spas; Earthviews - sand dunes in Weste Algeria, Sahara, black volcanic rock, smoke-plumes over Central Africa, sunset; re-entry, view from flight deck show aerodynamic heating, plasma tail; IR camera tracking shot o shuttle re-entering; shuttle landing sequence with nose-camera view of approaching runway. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100057

**Title:** STS-81 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 01/01/1997

**Length** 42

**Comments** <plain>Post-flight crew presentation of the STS-81 NASA orbiter mission to dock with the Mir space station. Astronauts present are: Mike Baker, Brent Jett, Jeff Wisoff, John Grunsfeld, Marsha Ivins and John Blaha. Various photographs are utilised to describe all stages of the mission as is a video incorporating in-flight footage. Still images as follows: launch, various crew pictures, TVUS (Treadmill Vibration Isolation System), crew member on treadmill, Mir space station, nose of shuttle, various shots of crews greet each other, astronaut in EVA suit, going through checklist, both crews together in shuttle (various shots), crew member holds up Biorack centrifuge, CMRS (Crew Medical Restraint System), multimeter checking video cable, onboard network computer, Earthviews - Nile river delta, shadows from pyramids, Singapore, Colorado, panoramic view containing Florida, shuttle landing. Video images: crew in orange suits, night launch, view from orbiter overhead window, opening payload bay doors, orbiter approaching, Mir, docking, centre line camera, opening of hatch, astronauts hugging, transfer items (transfer bags), various shots inside Mir, Mir over Earth (Soyuz on top), astronaut works in Biorack, astronauts hug each other, closing of hatch, undocking, shuttle crew on flight deck, Ivins with hand-held laser and camera, various views of Mir during flyaround, view of California, assembling and using TVUS, rotating in microgravity, suiting up for re-entry, flight deck with plasma flashes visible, view of horizon at 80,000 feet, view of shuttle creating sonic booms, view from cockpit window as shuttle approaches Earth, landing sequence.</plain>

**Keywords** SPACE STATIONS,SHUTTLE MISSIONS,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100058

**Title:** STS-82 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 11/03/1997

**Length:** 34

**Comments:** <plain>Post-flight presentation of the NASA STS-82 mission from the Johnson Space Center, Houston. This mission, to replace components of the Hubble Space Telescope, was launched on the 11th February, 1997. Crew were as follows: Ken Bowersox, commander; Scott Horowitz, pilot; Joe Tanner, mission specialist; Steve Hawley, mission specialist; Greg Harbaugh, mission specialist; Mark Lee, payload commander; Steve Smith, mission specialist. The presentation incorporates video footage of the mission, including the following scenes: night launch; payload bay doors opening; in-orbit preparation of tools; robot manipulator arm; Hubble Space Telescope from shuttle; grabbing the telescope with the robot arm; donning extra-vehicular activity (EVA) suits; footage of EVA, installing instrument boxes into telescope and stowing old boxes into payload bay; external airlock, with the Earth in background; changing the fine-guidance sensors and science tape recorder; changing the data-interface unit; changing the reactor wheel; footage of thunderstorms over Houston; changing the solar ray drive electronics box; astronauts at the top of the telescope, on the manipulator arm with Earth in the background; placing covers on magnetometers; Horowitz builds patches onboard the shuttle; release of the Hubble Space Telescope from the manipulator arm; Hubble with the Earth in the background; Hubble over Shark's Bay, Australia; crew hold up a sign reading "More Power"; in-orbit footage of crew - spinning powerdrill, sweets in water bubble, using exercise machine; views of the Hale-Bopp comet, a view of Florida; crew on the flight deck during the night re-entry, illustrating the orange glow of plasma; view of the overhead shuttle from Houston and various views of the shuttle landing at the Kennedy Space Centre; jettisoning of the parachute; still of the crew with the shuttle in the background. There is also a presentation of annotated slides, which include: in-flight views of the Hubble Space Telescope; in-flight crew shots including EVA, a manipulator arm control; re-entry, and touchdown. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100059

**Title:** STS-74 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 08/12/1995

**Length:** 39

**Comments:** <plain>A presentation of the NASA mission STS-74, during which the space shuttle Atlantis docked with the Russian space station Mir. Launched in Nov 1995, the mission involved the following NASA astronauts: Ken Cameron, commander; Jim Halsell, pilot; Chris Hadfield, mission specialist; Jerry Ross, mission specialist; and Bill McArthur, mission specialist. The Atlantis crew give a video presentation which includes the following material: launch of the shuttle; views of the Earth after opening of the payload bay doors; the islands of Majorca; installation of the Russian docking module using the Canada robotic arm, view through centre-line camera; views of Mir, docking with the Russian space station, rotating solar ray; entry of Mir crew (including ESA astronaut Thomas Reiter), shaking hands etc.; transfer of protein growth crystal experiment from shuttle to Mir; crew eat ice-cream together, playing guitars; gathering data from Mir jet firings; Atlantis crew leave Mir; crew wave through window; craft undocking; crew getting out of bunks, shavir pretending to exercise (press-ups etc) in microgravity, rotation to demonstrate principle of conservation of angular momentum; the setting sun; primary RCS jets fire; crew check flight control systems prior to entry; re-entering the Earth's atmosphere, view from window; view at 235,000 ft over Canadian Rockies; shuttle approaches Earth, touchdown and landing sequence. The presentation also involves a slice show, providing images of: the launch; Hadfield and McArthur using a Russian radio in Mir's core module; representative crew members from NASA, ESA and RKA holding a copy of the UN Space Treaty; crew photo through windows of Russian space station; equipment transfer; removing iodide from NASA's water supply for transfer to Mir; crew photo through windows of Russian space station; equipment transfer; removing iodide from NASA's water supply for transfer to Mir; Mir crew looking through shuttle windows at the space station; Russian cosmonaut writing letters to his wife; Earth observation photos - New Orleans, Atlanta, southern end of Hudson bay, Mir over Long Island, the English Channel, Poland, Turkey, Russia (windbreak structure), the Phillipines after Typhoon Angela, the Rockies sunrise/sunset to highlight the relative thinness of the Earth atmosphere. </plain>

**Keywords:** SHUTTLE MISSIONS,RKA,NASA GENERAL,MANNED SP

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100060

**Title:** STS-55: Mission Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1993

**Length:** 59

**Comments:** <plain>The Spacelab D2 mission (STS-55), utilising the American space shuttle Columbia, was launched on April 26th, 1993. The mission incorporated the ESA astronauts Schlegel and Walter. This video covers some of the highlights of the mission, and is arranged as follows: PRE-LAUNCH AND LAUNCH ACTIVITIES: pre-launch astronauts seated around dinner table; crew in suit-up room; waving astronaut leave operations and checkout building; van drives along Saturn causeway; shuttle and launcher on launchpad; crew white room; shuttle launch control room; retraction of crew access arm, retraction of hood from external tank; ignition; launch and flight sequence, including footage of main boost falling towards Earth. PAYLOAD BAY DOORS OPEN, SPACELAB D-2 ACTIVATION: doors open, view over payload with Earth in background; astronaut's point of view journey through shuttle; astronauts work inside Spacelab D-2 SPACELAB D-2 EXPERIMENTS: crew member wearing eye apparatus operates Rotex robotic arm, camera gives arm's point of view; crew members perform biomedical experiments, linked up to analytical machinery; blowing into respirometer, pedalling; taking blood sample; tadpoles for vestibular organ research; germination container utilised for gravitational biology experiment; photographing results of botanical experiment; microscope footage, examining cell cultures for fusion; supercooling container; crew members work on experiments; footage of experiment with liquid and molecular forces; crew member measures the compliance of his forehead skin; crew photograph; the mission's exterior experiments, behind the laboratory module - galactic ultra-wide angle camera, views of Earth. ONBOARD CREW ACTIVITIES: crew member gives "wake-up call"; shaving, eating, exercising; magnets in microgravity; unrolling log-sheets; upside-down crew members, one with camera; FM screen with message reading "Howdy from the crew of D-2"; crew members discuss 'snowstorm' toy to show loss of convection in microgravity, then look out of window. EARTH OBSERVATIONS: taking photographs from the shuttle's windows; setting moon and space sunset; various views of the Earth - Somalia, curvature of the Earth, lightning over Africa. RE-ENTRY PREPARATION/ RE-ENTRY AND LANDING. Steve Nagel gives an announcement to the German people; exiting Spacelab and closing its hatch; the flight deck; shutting of payload bay doors; re-entry, from flight deck point of view; views of Columbia on long-range camera; co-ordination graphics; the shuttle's final approach, landing sequence and the control room. Miscellaneous footage of a shuttle training aircraft.</plain>

**Keywords:** SPACELAB,SPACE STATIONS,SHUTTLE MISSIONS,NAS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100061

**Title:** STS-55: On Board

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1993

**Length:** 22

**Comments:** <plain>The NASA mission STS-55 (Spacelab D-2) was launched on April 26th, 1993. This film contains highlights of the mission, recorded from and aboard the Columbia space shuttle. Footage includes the following scenes: jettisoned solid fuel booster falls to Earth; crew working in orbit, one member with sensors attached to his body; space sunrises and sunsets; crew members attached to various monitoring systems; analysis of data, various in-flight experiments; physiological experimentation - blowing into respirometer tube, pedalling, cardiovascular monitoring; adjusting various control panels; administering substances intravenously, view over payload bay; drinking from bag whilst upside-down; sleeping unit; astronaut's point-of-view journey through shuttle; views of Earth; astronauts rotate in microgravity.</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,NASA GENERAL,MANN

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100062

**Title:** STS-66 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1995

**Length:** 40

**Comments:** <plain>The STS-66 (Atlas 3) mission was launched on November 3rd, 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist ESA's Jean-Francois Clervoy, mission specialist; Scott Parazynski, mission specialist. This film gives a video presentation of the mission, which was concerned with atmospheric analysis and solar science. Highlights include: shuttle launch, operation of payload instruments, protein crystal growth, exercise equipment, icicle growth, in-orbit views to illustrate plate tectonics and hurricane formation, views of coral reefs and plankton blooms, payload recapture re-entry with subsonic air tests, touchdown. Slides are also used, giving a wide array of images to illustrate geological structures and human impact on the Earth. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100062

**Title:** STS-66 Post-Flight Presentation.

**Type:** Selected Rushes

**Category:** live action

**Language:** English

**Production Date:** 01/01/1995

**Length:** 40

**Comments:** <plain>The STS-66 (Atlas 3) mission was launched on November 3rd, 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist; ESA's Jean-Francois Clervoy, mission specialist; Scott Parazynski, mission specialist. This film gives a video presentation of the mission, which was concerned with atmospheric analysis and solar science. Highlights include: shuttle launch, operation of payload instruments, protein crystal growth, exercise equipment, in-orbit views to illustrate plate tectonics and hurricane formation, views of coral reefs and plankton blooms, payload recapture, re-entry with subsonic air tests, touchdown. Slides are also used, giving a wide array of images to illustrate geological structures and human impact on the Earth. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100063

**Title:** STS-79 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1996

**Length:** 43

**Comments:** <plain>Post-flight presentation of the STS-79 mission, on which the NASA shuttle Atlantis docked with the Russian space station Mir. Crew members were as follows: Shannon Lucid, John Blaha, Jay Apt, Terry Wilcutt, Bill Readdy, Tom Akers, and Carl Walz. Shannon Lucid was collected and brought back to Earth, while John Blaha was transferred to Mir. The presentation incorporates a slide show, consisting of the following images: night launch of the Atlantis; Wilcutt in the pilot seat; Walz with MGM (Mechanics of Granular Materials) experiment; Wilcutt with water transfer bags; Apt's tips; Readdy reading rendezvous checklist in commander seat; optical sight of Mir space station; Atlantis as seen from Mir; nose of orbiter and solar array after docking to Mir; Blaha in Russian space suit; Lucid and MIR flight engineer, Alexander Kaleri inside MIR; MIR commander Valery Korzun in MIR's base block module; Akers working in double Spacehab module; Readdy transferring Russian hardware to MIR; Lucid inside hardware rack in Spacehab module; Akers transferring crystal samples to MIR; Akers sitting in aft-flight deck surrounded by cameras; Blaha working in Priroda module in MIR; Walz with Orlon spacesuit in Spacehab; Lucid with Kaleri and Korzun in Mir with food containers; Korzun in Mir's central node; Walz using IMAX camera; Lucid in hatch connecting ODS and docking module; Wilcutt looking out of overhead window at Mir with camera; view of Mir with earthview of storm; Mir crew photo with Kaleri, Blaha and Korzun; Lucid hugging Korzun; Mir with dark Earth background; Apt looking out of aft-flight deck windows taking pictures; Earth view of Jerusalem (silhouette of Atlantis's tail in view); Earth view of deforestation in rain forest in Brazil; typhoon violet; Atlantis's tail with aurora over Earth; Mir and shuttle crew photo. The crew also present a video, containing the following footage: crew members suiting for launch; crew exiting operations and checkouts building; shuttle on pad, lights shining on orbiter; main engine's igniting and liftoff; launch, tracking of Atlantis during ascent; solid rocket booster (SRB) separation, umbilical well camera; view of SRB's separating; payload bay door opening, view of orbiter docking system and double Spacehab module; opening Spacehab hatch door; Apt floats down tunnel and into module; Wilcutt works with a water transfer bag in the middeck; Blaha works with Bioreactor; blood analysis; working with ARIS (Active Rack Isolation System); Apt inserts an experiment rod into the ETFF; Akers removes a computer from a bag; Mir rendezvous seen through the orbiter's camera; closer time-slices of Mir rendezvous; Atlantis fires manoeuvring burn from forward thruster; Mir rendezvous from centreline camera in ODS; Atlantis rendezvous as seen from Mir; Mir docking module and the shuttle's docking system approaching each other; Atlantis and Mir dock; Shannon Lucid through the docking module hatch window; opening the hatch to the Mir space station; shaking hands, greetings in the docking module; crews share bread and salt; view of Mir; crew performing experiments, Lucid running on a treadmill



inside Mir; working with food containers in Spacehab; inserting incubator into Priroda module; greenhouse and wheat, Priroda with French experiment; Mir's central node, Soyuz and Russian suits; Mir's base block and crew cabin; view of Atlantis through Mir's window, view of Atlantis docked to Mir; Kaleri talking with Mir's ham radio; working with computer in Spektr module, experiment bags; payload bay and docking module with Typhoon Yates in the background; crews eating in Atlantis; farewell ceremony; closing hatches between vessels; undocking, separation of vehicles; orbiter flies around Mir with views of New Zealand, dark Earth, the coast of Australia and the Great Barrier Reef; closing payload bay door; re-entry with Readdy in the commander's seat, eflashes, Earth's sunrise out of pilot window; landing approach, touchdown and rollout; Bill Clinton greets crew at Ellington Field, Houston; crew present president with cap and T-shirts.

**Keywords** SHUTTLE MISSIONS,RKA,NASA GENERAL,MANNED SP

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100066

**Title:** Euromir '95: An Update

**Type:** Miscellaneous

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100068

**Title:** Eureka Grapple 1993

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1993

**Length:** 42

**Comments:** <plain>Eureka, ESA's EUropean REtrievable CARrier, was launched in 1992 by the American shuttle Atlantis. It was retrieved in June 1993 by the American shuttle Endeavour on the STS-56 mission. This footage shows the grappling of Eureka by the shuttle's remote operations arm. (Eventually, the Earth moves into the background.)</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,EURECA

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100069

**Title:** STS-78 Post-Flight Presentation.

**Type:** Selected Rushes

**Category:** Index, chapter-structured

**Language:** Natural Sound Only

**Production Date:** 01/01/1996

**Length:** 18

**Comments:** <plain>The STS-78 NASA mission was launched in 1996. Crew as follows: Henricks, Kregel, Brady, Thirsk, Linnehan Favier, Helms. This film includes the following images: crew being suited up, shuttle waiting on pad, crew are strapped into seats; astronauts in flight deck during ignition and launch; views of shuttle at launch; jettison of solid rocket boosters; astronauts pressed back into seats at MACH 25, main stage is jettisoned and falls away; physiological testing in microgravity - flexing muscles against forces, various analytical equipment, respirometer; crew surround pedalling astronaut, all give thumbs-up; astronaut, wearing recording equipment on head and back, holds laptop computer up to camera; emerging from sleeping units wearing monitoring equipment; sign held up to camera reading "science at work quiet - minimize disturbances"; assembling various equipment; setting moon, various footage of Earth's surface; suiting-up, re-entry, spectacular plasma flashes through window, reflection onto crew; views from shuttle as it passes through cloud layer; split-screen views, from Kennedy Space Centre and from shuttle, as runway is approached; view of runway prior to landing, landing sequence, crew members stand with shuttle in background and give thumbs-up.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100070

**Title:** STS-61 Crew Presentation Clip

**Type:** Selected Rushes

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 11/01/1993

**Length** 19

**Comments** <plain>Various clips taken from footage of the NASA STS-61 mission, launched in December 1993, to service and repair the joint ESA/NASA Hubble Space Telescope.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100071

**Title:** STS-45 Crewtraining.

**Type:** Selected Rushes

**Category:** Index, chapter-structured

**Language** English

**Production Date** 01/01/1991

**Length** 32

**Comments** <plain>STS-45 crewtraining clip JSC-1248. Containing: KC135 zero-G training; food tasting; extravehicular mobility unit walk-through with foale; crew compartment trailer bail training; camcorder training; Sarex training; EVE post/prep training; Linhof camera training.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100072

**Title:** STS-61 Index: Hubble Space Telescope

**Type:** Selected Rushes

**Category:** Index, chapter-structured

**Language:** Various

**Production Date:** 10/01/1993

**Length:** 18

**Comments:** <plain>A compilation related to the 1993 Endeavour mission STS-61, in which the space shuttle linked with the Hubble Space Telescope. Including German, English, French and Italian versions of the post-flight press conference with the seven astronauts in Houston, Texas; and coverage of the mission, including the launch, landing, and in-flight footage. There is lengthy coverage of a telescope maintenance spacewalk.</plain>

**Keywords:** SPACE SCIENCE,MANNED SPACEFLIGHT,HUBBLE SPA

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100073

**Title:** STS-71: Mir/ Atlantis Docking Mission Highlights.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>Coverage of the 1995 STS-71 mission, during which the American Atlantis space shuttle docked with the Russian space station Mir. Footage as follows: Atlantis launch sequence, burn out and separation of rocket boosters; shuttle in orbit, view of docking ring extending upwards; split screen view of centre-line camera navigational aid; view of Earth through split screen; view of Mir space station through orbital docking system; view of orbiter from Mir; split screen view of docking mechanisms and view of Mir's docking port through centre-line camera; view from Mir of docking modules approaching each other; docking capture; retraction of Atlantis's docking ring; Mir cosmonauts waving through space station windows; vehicle configuration as hooks and latches are operated; solar array; opening of shuttle hatch, Russian and American crew members shake hands; American crew members enter Mir, astronauts in Mir core module; physiological experiment, walking on conveyor belt; flight deck; view of Cristal module of Mir; astronaut's point of view journey through tunnel into Spacehab; undocking of Soyuz vehicle from Mir, views of Soyuz; separation of Mir from Atlantis; view from Soyuz of two vehicles undocking; view of Mir over the Earth; American crew aboard Mir; curvature of the Earth; view from Atlantis of Soyuz docking with Mir; view of Northern coast of New Guinea; Atlantis approaches Houston runway, Kennedy Space Centre; main gear touchdown, chute deployment, nose gear touchdown.  
</plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,RKA,NASA GEN

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100074

**Title:** STS-75 Post-Flight Presentation - clips

**Type:** Selected Rushes

**Category:** Index, chapter-structured

**Language** Mute

**Production Date** 01/01/1996

**Length:** 18

**Comments** <plain>A montage of images which describe the NASA STS 75 (Columbus) mission, launched February 2nd 1996. The launch, payload deployment, in-flight period, re-entry and landing are covered with a compilation of stunning shots.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100076

**Title:** STS-71: Mir/ Atlantis Docking Mission Highlights.

**Type:** Selected Rushes

**Category:** live action

**Language:** English

**Production Date:** 01/01/1995

**Length:** 59

**Comments:** <plain>Coverage of the 1995 STS-71 mission, during which the American Atlantis space shuttle docked with the Russian space station Mir. Footage as follows: Atlantis launch sequence, burn out and separation of rocket boosters; shuttle in orbit, view of docking ring extending upwards; split screen view of centre-line camera navigational aid; view of Earth through split screen; view of Mir space station through orbital docking system; view of orbiter from Mir; split screen view of docking mechanisms and view of Mir's docking port through centre-line camera; view from Mir of docking modules approaching each other; docking capture; retraction of Atlantis's docking ring; Mir cosmonauts waving through space station windows; vehicle configuration as hooks and latches are operated; solar array; opening of shuttle hatch, Russian and American crew members shake hands; American crew members enter Mir, astronauts in Mir core module; physiological experiment, walking on conveyor belt; flight deck; view of Cristal module of Mir; astronaut's point of view journey through tunnel into Spacehab; undocking of Soyuz vehicle from Mir, views of Soyuz; separation of Mir from Atlantis; view from Soyuz of two vehicles undocking; view of Mir over the Earth; American crew aboard Mir; curvature of the Earth; view from Atlantis of Soyuz docking with Mir; view of Northern coast of New Guinea; Atlantis approaches Houston runway, Kennedy Space Centre; main gear touchdown, chute deployment, nose gear touchdown.  
</plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,RKA,NASA GEN

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100077

**Title:** STS-69 Post-Flight Presentation.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1995

**Length:** 35

**Comments:** <plain>Crew presentation of the NASA Endeavour mission STS-69. Mission crew were as follows: Mike Gernhardt, Jim Newman, Jim Voss, Ken Cockrell, Dave Walker. The presentation includes a narrated video, containing the following scenes: crew being suited-up; ignition and lift-off; visible shockwaves resulting from atmospheric conditions; jettison of solid rocket boosters; preparation of experiment ergometer, Spartan payload in bay (a solar science satellite study the effects of the solar wind); release of the autonomous satellite Spartan; views of the satellite with flight deck window in the background, and with Earth in the background; use of the commercial genetic bioprocessing apparatus; mass measurement device, weighing an astronaut; portable clinical blood analyser, Spartan rendezvous and grapple; Earth views of the Bahama Island wakeshield manipulation - cleaning in atomic oxygen, testing altitude control system; overhead deploy position in order to perform a gravity overhead deploy, wakeshield cleared of a wakeshield science centre, tracking; exercising using rowing machine and exercise bike; the Orbital Wide Web - mid-deck implementation, global positioning satellite and payload operation screens; view of Wakeshield through command window; wakeshield on arm with Earth in background, grapple, galley food rehydration set-up, eating; EVA preparation - antifogging helmets, rigid tether, shot of EVA astronauts in airlock, prebreathing; shutting hatch; heading out of door, thermal cover closes; astronauts working in payload bay; astronaut held by body restraint tether; astronauts hang from remote operations arm; removing thermal cube; buttoning-up suits in airlock; Earthviews - tip Somalia, large hurricanes, dumping water; space sunset; shuttle entry over Houston, landing at Kennedy Space Centre; jettison of dragchute. The video also contains a slide presentation of the following images: launch of the shuttle; payload bay containing Wakeshield, Spartan and IUEH (International Extreme Ultraviolet Hitchhiker); various crew members; Earth observation photographs - Amazon river, cloud vortices, hurricane, desert forest, the Nile river valley, centre pivot irrigation fields in Saudi Arabia, colour infrared photograph over Indonesia to show vegetation distribution, EVA astronaut silhouetted against hurricane, Si through shuttle window, the coast of Florida, plasma through window on re-entry, landing, moon over the Earth. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100078

**Title:** STS-73 Post-Flight Presentation.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1996

**Length:** 29

**Comments:** <plain>A presentation of the NASA mission STS-73. Crew were as follows: Kathy Thornton, payload commander; Al Sacco, payload specialist; Kent Rominger, pilot; Mike Lopez Alegria, mission specialist; Ken Bowersox, commander; Fred Leslie, mission specialist and Cady Coleman, mission specialist. The presentation contains video footage of the mission, containing the following scenes: pre-launch shuttle ignition, lift-off; shuttle punches through a cloud deck and casts a shadow, separation of solid-rocket boosters; opening of payload bay doors, deployment of KU band; crew members climb into sleeping units; activation of Spacelab - opening of hatch, setting up lab; cleaning teeth, shaving, exercise bike, washing hair; performing protein crystal growth experiment in glovebox, Albert restraint system, views of protein crystals, observing mixing profiles in the glovebox; electronic crystal growth in CGF; interaction with geophysical fluid flow cell experiment, which simulates convection on a planetary atmosphere; surface-tension driven convection experiment; crew member works at drop physics module, acoustic distortion of droplet, results of fluid interaction test being monitored at terrestrial control centre; fibre-supported droplet combustion experiment; examining hard-sphere models for crystal structure, fluid-crystal interfaces, laser-diffraction patterns; mid-deck experiments - supplying carbon dioxide to plants, close-up of plants utilized in nutrient-delivery research; crew member wrapped in sensors, neuro-vestibular experiment; crew member takes Earth observation photos through window - view over payload bay of California and Sierra Nevada region, India and the Himalayas, super-typhoon Angela over the Phillipine Sea, night view over the United States; pilot filter-cleaning, using pilot-simulator computer; blue crew eating lunch, receiving electronic mail; crew shot, throwing a baseball towards camera, split-screen effect to give effect of ball landing into World-series game (illustrating facility for watching television); crew members perform 'levitation' magic trick; checking flight deck systems for return voyage; amateur footage from Earth of shuttle re-entry; shuttle approaches runway, landing sequence. The video also incorporates the following slides: crew patch, launch; Earthviews of Eastern Mediterranean, coral reefs in the Pacific, the border between Egypt and Israel, a clear view of San Francisco Bay, Australia over the payload bay, the Colorado River; Cape Cod, colour infra-red photo to illustrate this technique's capacity for cutting through smog and highlighting vegetation distribution, electronic still camera shot of San Diego Bay, and the Johnson Space Centre.  
</plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,NASA GENERAL,MANN

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100081

**Title:** Ariane 501 recordings: telecine 4:3.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 06/04/1996

**Length:** 4

**Comments:** <plain>Footage dubbed from 35mm film of the failure of the Ariane 501 (Cluster) launch, on June 4th 1996.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100081

**Title:** Ariane 501 recordings: telecine 4:3.

**Type:** Selected Rushes

**Category:** live action

**Language:** Mute

**Production Date:** 06/04/1996

**Length:** 4

**Comments:** <plain>Footage dubbed from 35mm film of the failure of the Ariane 501 (Cluster) launch, on June 4th 1996.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100082

**Title:** Ariane 501 recording: launch pad before and at launch.

**Type:** Selected Rushes

**Category:** Interviews

**Language:** Natural Sound Only

**Production Date:** 06/04/1996

**Length:** 8

**Comments:** <plain>The Ariane 501 launch failed on June 4th 1996. This film contains helicopter footage of Centre Spatial Guyanis, views of the Ariane 5 launcher on ZL3 by night, a helicopter view of the launch (cutting out before explosion, returning in rain-down) and a ground view of launch and failure.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100084

**Title:** Cluster Recovery

**Type:** Selected Rushes

**Category:** live action

**Language:** natural sound

**Production Date:** 00/00/00

**Length:** 92

**Comments:** <plain>After the failure of the Ariane 501 launch in June 1996, steps were taken to recover the components of its payload - four Cluster solar science satellites. This film contains the following footage: military recovery vehicles and personnel, on roads and in French Guiana swamps; a helicopter leading the convoy; soldiers with gas masks and machetes; debris from Ariane 501 in swamps, recuperation pieces: launcher fragments, hydrazine tank; unloading various pieces; red-taped area; charging gas masks; inspection of debris area; personnel in 'Cluster' T-shirts, briefing on waste toxicity; recuperation of electronic boxes and various small pieces; man in orange 'Ariane' suit cuts cables; tearing out large piece of structure with cable; passing over cutters and saw; sorting retrieved parts on roof of vehicle; towing vehicle out of swamp; unloading and hosing down of pieces, measurement of toxicity; removing a large part of the main structure from swamp and lifting onto the truck, debris inside truck; eating on top of a recovery vehicle; a booster shirt; packing components for shipment; explanation (in English) of the damage to some components; labelling of crate; explanation of what will happen to the recovered units, parts over laid-out parts.</plain>

**Keywords:** CLUSTER,ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100084

**Title:** Cluster Recovery

**Type:** Selected Rushes

**Category:** live action

**Language:** natural sound

**Production Date:** 00/00/00

**Length:** 92

**Comments:** <plain>After the failure of the Ariane 501 launch in June 1996, steps were taken to recover the components of its payload - four Cluster solar science satellites. This film contains the following footage: military recovery vehicles and personnel, on roads and in French Guiana swamps; a helicopter leading the convoy; soldiers with gas masks and machetes; debris from Ariane 501 in swamps, recuperation pieces: launcher fragments, hydrazine tank; unloading various pieces; red-taped area; charging gas masks; inspection of debris area; personnel in 'Cluster' T-shirts, briefing on waste toxicity; recuperation of electronic boxes and various small pieces; man in orange 'Ariane' suit cuts cables; tearing out large piece of structure with cable; passing over cutters and saw; sorting retrieved parts on roof of vehicle; towing vehicle out of swamp; unloading and hosing down of pieces, measurement of toxicity; removing a large part of the main structure from swamp and lifting onto the truck, debris inside truck; eating on top of a recovery vehicle; a booster shirt; packing components for shipment; explanation (in English) of the damage to some components; labelling of crate; explanation of what will happen to the recovered units, parts over laid-out parts.</plain>

**Keywords:** LAUNCHERS,CLUSTER,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100085

**Title:** Ariane 501: Live Transmission tape one.

**Type:** Selected Rushes

**Category:** VNR

**Language:** English

**Production Date:** 06/04/1996

**Length:** 96

**Comments:** <plain>The June 1996 Ariane 501 launch and subsequent failure are recorded in this direct broadcast from CSG Kourou. The period from the beginning of the launch window is covered. Footage incorporated is as follows: Guiana's rainforests, Jupiter control centre, helicopter flybys of static tourist board shots of French Guiana, inhabitants, wildlife and Toucan viewing site, pan to show final assembly building, launchpad with launcher surrounded by lightning masts, vehicle integration building, Ariane 4 launchpad with launch animation film sequences to show launcher design, along with discussion of design and manufacturing footage (cryogenic main stage, Vulcan engine, series production of engines, engine testing, solid boosters, booster test firings, upper stage, static testing of storable fuel engine, equipment bay, fairing testing in vacuum chamber); telemetry station; short film to show transport of various components to Kourou, Mission Toucan vessel, assembly; rollout of launcher from assembly building; hydrogen burned in pool; operations centre during automatic sequence; flight safety team; range operations manager; Guiana weather forecasting centre, interview and electrical discharge monitor display, Meteosat 3 simulation, medium term (24-36 hours) forecasting; receiving data at the new Jupiter building, Mission Control - logistics optical systems team, telecommunications team, tracking team, telemetry team; Ariane 5 booster integration building, assembly stages, solid booster testing, rollout of booster; short clip of images related to solar science, illustrating the function, design and manufacture of the Cluster solar payload. Various interviewees and speakers appear throughout, including: Jean-Marie Luton, ESA Directeur-General; Alain Bensoussan, CNES President; Piet Smolders; Mike McKay, ESA/ESOC Space Craft Operations Manager speaking from Mission Control Centre in Germany; technical consultants Juan de Dalmau and Pierre Marx; Jean Grenier, Directeur General of Eutelsat; Jean-Pierre Haignere, <br>CNES astronaut; Frederik Engstrom, ESA Director of Launchers; Daniel Mugnier, CNES Director of Launchers; Francis Avanzi, Arianespace Directeur-General; Gustav Mecke, ESA Cluster Project Representative; Pierre Perez, CNES Adjoint Operations au Chef de Programme Ariane 5; Guy Laslandes, CNES Directeur du Programme Ariane 5; Jacques-H Durand, ESA Ariane 5 Programme manager; Raymond Orye, Directeur du Vol; Roger-Maurice Bonnet, ESA Directeur Programmes Scientifiques; Paul Jouglet, Chef de Mission; Michel Nicolas, Chef des Operations de l'Ensemble de Lancement; and Pierre Ribardier, Directeur des Operations.</plain>

**Keywords:** LAUNCHERS,CSG KOUROU,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100086

**Title:** Ariane 501: Live Transmission tape two.

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 06/04/1996

**Length:** 37

**Comments:** <plain>The June 1996 Ariane 501 launch and subsequent failure are recorded in this direct broadcast from CSG Kourou. The period from the beginning of the launch window is covered. Footage incorporated is as follows: various shots of Ariane 5 on launchpad, and of Mission Control; helicopter views of CSG Guyana, showing cloud cover; pan down length of Ariane 5; base of launcher; cinetelescope view of Ariane 5 start of automatic sequence; ignition, lift-off; helicopter footage of failure, cuts out, footage of rain-down of debris; devastated faces of Mission Control personnel, Operations Director writes on pad; official announcement from Michel Mignot, Directeur du CSG/CNES; announcement from Jean-Marie Luton, ESA Directeur-General; announcements from Francois Fillon, Ministre des Postes, des Telecommunications et de l'Espace and Yvan Ylieff, President du Conseil de l'ESA. Other interviewees and speakers: Pierre Perez, CNES Adjoint Operations au Chef de Programme Ariane 5; Juan de Dalmau and Pierre Marx; and Mike McKay, ESA/ESOC Space Craft Operations Manager.</plain>

**Keywords:** LAUNCHERS,CSG KOUROU,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100087

**Title:** Ariane 5: Vehicle Equipment Bay.

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/15/1996

**Length:** 13

**Comments:** <plain>Footage showing construction and integration of some of the components of the Ariane 5 launcher; centrale gyrolaser, maquette instrumentale CASE ARIANE 5, integration CASE, CASE 501 en integration finale.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100088

**Title:** Eureka EVA Activities: parts one and two

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1992

**Length:** 61

**Comments:** <plain>The Endeavour Eureka-1 (EUropean REtrievable CArrier) retrieval mission, STS-57, was launched on June 26th, 1993. This video contains footage of astronauts performing EVA (Extra-Vehicular Activity), including the following scenes: astronauts working around the payload t different profiles of astronauts suspended on the remote operations arm; working on Eureka, visible logo in frame, Earth seen moving relative to orbiter in background; views the curvature of the Earth. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100089

**Title:** Artemis Animations.

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 04/10/1997

**Length:** 4

**Comments:** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by the European Space Agency. Artemis is equipped with sophisticated radio systems and for the first time will use lasers to transmit data directly between satellites. This animation is divided into four sequences: -SEQUENCE 1: the H2 launch of the Artemis spacecraft from the Tanegashima launch site in Japan, as seen from an altitude of 1500km, introduction to a geostationary transfer orbit, and the circularisation of the orbit by booster firing. Launcher is seen passing South of Hawaii maintaining constant speed and altitude before separation occurs. The satellite rises over South America, continuing south of the Equator towards the Indian Ocean. The elliptical orbit, with an eight hour period, becomes visible above the North Pole; the apogee booster motor is fired to give an orbital period identical to that of the Earth. -SEQUENCE 2: the principle of data-relay services, i.e transmitting data from a low-Earth orbit via a geostationary spacecraft to a fixed ground station. The satellite appears on a sun-synchronous orbit 800 km above the Earth, switching on a direct radio down-link above Africa. The Kiruna ground station, North of Scandinavia, is shown - the down-link fails to touch the station. Artemis appears, and receives a laser link from the low Earth-orbit satellite. Artemis downlink falls onto Europe. SEQUENCE 3: coverage of Artemis mobile services. A map of Europe is shown, with the North Pole just visible; coverage of Artemis's mobile payload is illustrated. Various traffic is symbolised by different colours. -SEQUENCE 4: A CLOSE LOOK AT ARTEMIS. (The solar generator of a spacecraft tracks the Earth as it moves around it in 12 hours.) The body and antennae of the satellite are made visible, with the solar generator facing the camera. The Earth appears illuminated like a new moon; as day starts in the East, the solar generator tracks the Sun. The solar generator has turned by 180 degrees by the time it is fully sunlit. </plain>

**Keywords:** TELECOMMUNICATIONS,ARTEMIS

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00100089

**Title:** Artemis Animations.

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 04/10/1997

**Length:** 4

**Comments:** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by the European Space Agency. Artemis is equipped with sophisticated radio systems and for the first time will use lasers to transmit data directly between satellites. This animation is divided into four sequences: -SEQUENCE 1: the H2 launch of the Artemis spacecraft from the Tanegashima launch site in Japan, as seen from an altitude of 1500km, introduction to a geostationary transfer orbit, and the circularisation of the orbit by booster firing. Launcher is seen passing South of Hawaii maintaining constant speed and altitude before separation occurs. The satellite rises over South America, continuing south of the Equator towards the Indian Ocean. The elliptical orbit, with an eight hour period, becomes visible above the North Pole; the apogee booster motor is fired to give an orbital period identical to that of the Earth. -SEQUENCE 2: the principle of data-relay services, i.e transmitting data from a low-Earth orbit via a geostationary spacecraft to a fixed ground station. The satellite appears on a sun-synchronous orbit 800 km above the Earth, switching on a direct radio down-link above Africa. The Kiruna ground station, North of Scandinavia, is shown - the down-link fails to touch the station. Artemis appears, and receives a laser link from the low Earth-orbit satellite. Artemis downlink falls onto Europe. SEQUENCE 3: coverage of Artemis mobile services. A map of Europe is shown, with the North Pole just visible; coverage of Artemis's mobile payload is illustrated. Various traffic is symbolised by different colours. -SEQUENCE 4: A CLOSE LOOK AT ARTEMIS. (The solar generator of a spacecraft tracks the Earth as it moves around it in 12 hours.) The body and antennae of the satellite are made visible, with the solar generator facing the camera. The Earth appears illuminated like a new moon; as day starts in the East, the solar generator tracks the Sun. The solar generator has turned by 180 degrees by the time it is fully sunlit. </plain>

**Keywords:** TELECOMMUNICATIONS,ARTEMIS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100090

**Title:** JSC ISSA Animation

**Type:** Original Material

**Category:** Graphics

**Language:** Natural Sound Only

**Production Date:** 02/10/1997

**Length:** 22

**Comments:** <plain>An animation of the proposed International Space Station (ISS). The following sequences are included: ISS flyaround; USA contribution; NASDA contribution; Russian contribution; ESA contribution. Assembly of the ISS - Russian Proton launch of the functional cargo block (FGB); American Node 1; Russian Service Module (SM); addition of elements of the American Truss and Russian Science and Power Platform (SPP), using the European Robotic Arm (ERA); addition of photovoltaic solar arrays, thermal radiators and communications equipment; addition of the US lab, three Russian research modules (RM1, RM2, RM3), Japanese Experiment module (JEM) and the European Laboratory Module (COF). Additional animation sequences: integration of FGB and Node 1 via the American Space Shuttle, addition of the SM; attachments of Soyuz vehicles and Space Shuttle to ISS, interior view, assembly of the station as above; ISS orbit with Earth in the background; cupola viewing - port side of aft node; ISS with sunrise in background; assembly of all the components in order; station moving in its orbit. The tape also contains some footage of astronaut underwater maintenance training, with radio contact voiceover. </plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100094

**Title:** Ariane Kourou Meteosat

**Type:** Selected Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 01/01/1988

**Length:** 9

**Comments:** <plain>General footage of Kourou in French Guiana, the location of Centre Spatial Guyanais. Images include: Ariane 4 launcher in scaffolding (bearing Arianespace logo), views of Kourou - streets and houses, inhabitants, food market, forests, tourist boats on the river.</plain>

**Keywords:** CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100095

**Title:** Ariane 4: Location

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 01/01/1988

**Length:** 14

**Comments:** <plain>General shots of Kourou, French Guiana - tinshacks people cycling, children and farm animals, people sitting and talking.</plain>

**Keywords:** CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100099

**Title:** ERS-2: DLR Ozone Hole

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 10/18/1996

**Length:** 3

**Comments:** <plain>An animation sequence to illustrate results obtained by ERS-2, ESA's second environmental satellite launched on April 21st 1995. The video contains GOME (Global Ozone Monitoring Experiment) spectrometry readings of: ozone, nitrogen dioxide, bromine oxide, sulphur dioxide; animations of ERS-2 scanning the Earth's atmosphere, revealing a large ozone depletion area over the Antarctic; changing amounts of ozone from June to October, 1996. </plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100100

**Title:** Ariane 4: Vol 94 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 36

**Comments** <plain>Intelsat 801 was launched by the V94 Ariane 4 flight on February 28th, 1997. This video contains images related the launch, including: opening of cryo arms (slo-mo); plaque clapet LO2 (slo-mo); plaque a clapet LH2 (slo-mo); integrite lanceur (slo-mo); ombilicaux superieurs (slo-mo); ombilicau centraux (slo-mo); retombees des mobilicaux (slo-mo); ensemble des ombilicaux (slo-mo); simultaneite allumage PAP (slo-mo); allumage PAP et L220 (slo-mo); altitude 0 -10 metres (different slo-mo speeds); tracking shots of launch sequence (real time), different distances; cinetelescope footage of launch sequence; </plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100100

**Title:** Ariane 4: Vol 94 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 36

**Comments** <plain>Intelsat 801 was launched by the V94 Ariane 4 flight on February 28th, 1997. This video contains images related the launch, including: opening of cryo arms (slo-mo); plaque clapet LO2 (slo-mo); plaque a clapet LH2 (slo-mo); integrite lanceur (slo-mo); ombilicaux superieurs (slo-mo); ombilicau centraux (slo-mo); retombees des mobilicaux (slo-mo); ensemble des ombilicaux (slo-mo); simultaneite allumage PAP (slo-mo); allumage PAP et L220 (slo-mo); altitude 0 -10 metres (different slo-mo speeds); tracking shots of launch sequence (real time), different distances; cinetelescope footage of launch sequence; </plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100101

**Title:** Envisat 1: Polar Platform

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/05/1991

**Length:** 28

**Comments:** <plain>Construction of the polar platform flight service module for Envisat, at Matra Marconi in Bristol, England. The video contains various cleanroom footage of engineers working on the components, in addition to shots of transportation by escorted lorry.</plain>

**Keywords:** REMOTE SENSING,ENVISAT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100104

**Title:** Envisat: Mipas

**Type:** Rushes

**Category:** live-action recordings

**Language:** ME only

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>MIPAS (Michaelson Interferometer Passive Atmospheric Sounding) is the most accurate method of atmospheric analysis available, utilising optical spectra analysis. This video contains footage of MIPAS equipment being used to test the engineering model of the Envisat satellite.</plain>

**Keywords:** ENVISAT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100105

**Title:** CSG Terre 3D Animation

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 10/01/1990

**Length:** 1

**Comments:** <plain>Animation sequence: globe with longitudinal and latitudinal lines, shows Europe in white while Africa and USSR are in blue. Anti-clockwise rotation to show South America, Guyana and surrounding area in white.</plain>

**Keywords:** CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100106

**Title:** EVA Space Suit 2000 Rushes: tape one

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>Material focussing on the EVA (extravehicular activity) Space Suit 2000. The following shots are included: astronaut is helped into suit, which is held in a frame; three men of assorted size line up in front of suit; technician adjusts ankle and wrist straps; closing door on back of suit; SABCA logo on rear of suit; astronaut in suit attached to pulley; astronaut undoes wrist strap; astronaut walks in suit, crouches down, rotation at wrist and above elbow. </plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100106

**Title:** EVA Space Suit 2000 Rushes: tape one

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>Material focussing on the EVA (extravehicular activi  
Space Suit 2000. The following shots are included: astron  
is helped into suit, which is held in a frame; three men of  
assorted size line up in front of suit; technician adjusts ankl  
and wrist straps; closing door on back of suit; SABCA log  
on rear of suit; astronaut in suit attached to pulley; astron  
undoes wrist strap; astronaut walks in suit, crouches down  
rotation at wrist and above elbow. </plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100107

**Title:** EVA Space Suit 2000 Rushes: tape two

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>Material focussing on the EVA (extravehicular activi  
Space Suit 2000. The following footage is included: close  
shots of rotation at wrist and hand, demonstrating ease of  
using pliers, holding a rubber ball and passing it from one  
hand to the other, locating and operating switch on front of  
suit; ESA logo on front of suit; technician opens hatch in re  
of suit, revealing components; removing cylinder from rear  
suit; close shot of clasp holding cylinder in place, undoing  
clasp, removing connector pipe from cylinder; removing  
batteries from side and lower portion of door compartment;  
astronaut in suit stands behind glass, draws wide circle wi  
marker pen to show reach of suit.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100107

**Title:** EVA Space Suit 2000 Rushes: tape two

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>Material focussing on the EVA (extravehicular activi  
Space Suit 2000. The following footage is included: close  
shots of rotation at wrist and hand, demonstrating ease of  
using pliers, holding a rubber ball and passing it from one  
hand to the other, locating and operating switch on front of  
suit; ESA logo on front of suit; technician opens hatch in re:  
of suit, revealing components; removing cylinder from rear  
suit; close shot of clasp holding cylinder in place, undoing  
clasp, removing connector pipe from cylinder; removing  
batteries from side and lower portion of door compartment;  
astronaut in suit stands behind glass, draws wide circle wi  
marker pen to show reach of suit.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100109

**Title:** Donnees Ozone ERS/GOME Fevrier 1996

**Type:** Miscellaneous

**Category:**

**Language:**

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00100110

**Title:** ERS-1 1991

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 04/10/1991

**Length:** 28

**Comments:** <plain>ERS-1, Europe's first remote sensing satellite, is due to be launched on July 17th 1991. This tape contains the following animation sequence: satellite, represented by dot globe, starts at Kourou; globe turns L to R, ERS-1 moves up across Atlantic; camera tracks L to R and up, as satellite moves to east coast of Canada, over North Pole, down over north east Greater Russia, over China and Western Australasia; ERS-1 moves under South Pole, globe rotates and shows Europe, Middle East and Africa, then the Atlantic satellite becomes visible again over the Falkland Islands, moves over Argentina, west coast of South America, over Cuba and Florida. End lines do not connect. </plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100111

**Title:** ESA logo

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>ESA's logo.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100116

**Title:** Ariane: Composite Materials Manufacture 1 MICHEL?

**Type:** Miscellaneous

**Category:** Library material

**Language** Italian

**Production Date** 04/21/1996

**Length:** 9

**Comments:** <plain>A television programme by RTSI, Switzerland. Including images from Oerlikon-Contraves, Zurich, concerned with construction, testing and transportation of payload fair for Ariane launchers. </plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100116

**Title:** Ariane: Composite Materials Manufacture 1

**Type:** Miscellaneous

**Category:** Library material

**Language** Italian

**Production Date** 04/21/1996

**Length:** 9

**Comments:** <plain>A television programme by RTSI, Switzerland. Including images from Oerlikon-Contraves, Zurich, concerned with construction, testing and transportation of payload fair for Ariane launchers. </plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100117

**Title:** Ariane: Composite Materials Manufacture 2 MICHEL?

**Type:** Rushes

**Category:** Library material

**Language** M/E only

**Production Date** 00/00/00

**Length:** 34

**Comments** <plain>Camera rushes of location recordings made at Oerlikon-Contraves, Zurich, Switzerland, concerned with construction, testing and transportation of payload fairing for Ariane launchers. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100117

**Title:** Ariane: Composite Materials Manufacture 2

**Type:** Rushes

**Category:** Library material

**Language** Italian

**Production Date** 00/00/00

**Length:** 34

**Comments** <plain>Camera rushes of location recordings made at Oerlikon-Contraves, Zurich, Switzerland, concerned with construction, testing and transportation of payload fairing for Ariane launchers. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100118

**Title:** Robotcalibration

**Type:** Miscellaneous

**Category:** Library material

**Language** English

**Production Date** 03/01/1996

**Length:** 9

**Comments** <plain>A corporate presentation of Krypton Engineering, demonstrating their robotic technology hardware and software.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100119

**Title:** ATV Docking Animation. MICHEL?

**Type:** Original Material

**Category:** Graphics

**Language**

**Production Date** 00/00/00

**Length:** 3

**Comments** <plain>Virtual reality computer graphics of ATV/ISS (Automated Transfer Vehicle/ International Space Station) docking using ESA-developed ARP technology</plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100121

**Title:** ERS-1: Background Images 7

**Type:** Selected Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Containing: -screen output of SAR models, interferometry images produced by ERS-1 data (07:00:31:00 - 07:09:23:00) -operator at keyboard (07:09:23:00 - 07:11:50:00) -general view s of Naples: traffic, pedestrians etc. (07:09:23:00 - 07:36:00:00) </plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100122

**Title:** Ariane 4: Vol 74 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 06/09/1995

**Length:** 7

**Comments:** <plain>The Ariane V74 rocket, bearing the DBS-3 satellite, was launched on June 9th, 1995. This tape contains variou recordings of the launch, organised as: tour ombilicale, plaque a clapets IO2, 250 i/s; tour ombilicale, plaque a clapets LH2, 250 i/s; toit portique, opening of cryogenic arm 125 i/s; tour ombilicale, integrite lanceur, 125 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100123

**Title:** Ariane 4: Vol 74 Technical Films 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 09/06/1995

**Length:** 17

**Comments:** <plain>The Ariane V74 (42P) rocket, bearing the DBS-3 satellite, was launched on June 9th, 1995. This tape contains various recordings of the launch, organised as: shelter sud ombilicax superieurs, 100 i/s; shelter sud, ombilicax centraux, 100 i/s; shelter ouest, retombees ombilicax, 100 i/s; shelter sud, ensemble des ombilicax, 100 i/s; shelter ouest, allumage PAP, 1000 i/s; shelter est, simultaneite allumage PEP, 1000 i/s; shelter nord, altitude 0 - 100 metres 100 i/s; shelter sud, attitude 0 - 100m, 100 i/s; shelter est, attitude 0 - 100m, 100 i/s; shelter CDL, attitude generale lanceur, 100 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100124

**Title:** ERS-1: Naples Images tape one

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 10/01/1994

**Length:** 25

**Comments:** <plain>General views of Naples and Vesuvius - steam rising from mountain vents, boiling mud, radar reflectors. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100125

**Title:** ERS-1: Naples Images tape two

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 10/01/1994

**Length:** 35

**Comments:** <plain>General views of Vesuvius - boiling mud, radar reflectors, Roman ruins.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100126

**Title:** ERS-1: Naples Images tape three

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 10/01/1994

**Length:** 36

**Comments:** <plain>General images of Naples - Roman ruins, small fishing boats moored in harbour, fisherman climbs down ladder onto marina walkway, general shots of fishermen (lobster pots, weaving nets, etc.), computer operators with ERS images on monitors, ERS images, </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100128

**Title:** ERS-1: Naples Images tape four

**Type:** Rushes

**Category:** Library material

**Language:** Mute

**Production Date:** 10/01/1994

**Length:** 35

**Comments:** <plain>General material shot in Naples - ERS-1 images on computer monitor, control screen, computer operators, view of Vesuvius (crater, smoke)</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100129

**Title:** ERS-1: Naples Images tape five

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 10/01/1994

**Length:** 36

**Comments:** <plain>General views of Mount Vesuvius- rocks, crater, smoke, Naples from crater, geologists. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100130

**Title:** ERS-1: Naples Images tape six

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 10/01/1994

**Length:** 36

**Comments:** <plain>General material shot in Naples - Mount Vesuvius, Naples from Vesuvius (coastline), cracked building, general views buildings and rubble, cracked interior of Church with paintings, broken window, ERS images (Vesuvius) and researchers with computers. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100131

**Title:** CSG Kourou - Child Interview Rushes

**Type:** Rushes

**Category:** Interviews

**Language:** French

**Production Date:** 11/01/1995

**Length:** 14

**Comments:** <plain>Interviews with children recorded at Centre Spatiale Guyanis, 'Europe's Spaceport' in Kourou. Ranging from infants to teenagers, the interviewees give their views on life in Kourou and the Ariane launcher programme. Shot with an Ariane launcher in the background. </plain>

**Keywords:** ESA GENERAL,CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100138

**Title:** STS-57: Eureka EVA Activities

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>The STS-57 (Endeavour) mission, involving the retrieval of ESA's European REtrievable CARrier (EURECA), was launched by NASA on June 26th 1993. This video contains rushes taken during EVA activity on the mission. Material includes: astronaut on remote operations arm; two astronauts working in payload bay, 'ESA EURECA' logo visible.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100139

**Title:** Ariane 4: Vol 75 Technical Films 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The Ariane V75 rocket, bearing the Helios 1A payload was launched on June 9th, 1995. This tape contains various recordings of the launch, organised as: shelter sud, attitude 100m, 200i/s; shelter nord, 0-100m, 200i/s; shelter ouest, comportement lanceur, 200i/s; shelter est, 0-100m, 200 i/s; shelter cdl, attitude generale lanceur, 200 i/s; shelter cdl, attitude generale lanceur, 200 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100141

**Title:** Eden: Live Action Recordings 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** French

**Production Date:** 09/18/1996

**Length:** 31

**Comments:** <plain>Live action recordings at Aerospatiale Bordeaux; the subject is the ESA astronaut Ockels, who flew on the D1 Spacelab mission. The footage illustrates the EDEN experiment, which investigates the functioning of the vestibular organ by measuring eye movements - shots include Aerospatiale scientist explaining rotating chair experiment, subject (in ESA overalls) demonstrates equipment, chair rotates as subject's eye is monitored on a video screen, scientist at computer terminal, Aerospatiale/ESA logos in background, subject is interviewed about experiment, various interviews, chair rotates with subject in horizontal position. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100142

**Title:** Eden: Live Action Recordings 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 09/18/1996

**Length:** 33

**Comments:** <plain>Live action recordings at Aerospatiale Bordeaux; the subject is the ESA astronaut Ockels, who flew on the D1 Spacelab mission. The footage illustrates the EDEN experiment, which investigates the functioning of the vestibular organ by measuring eye movements - shots (from above) include subject (in ESA overalls) rotating in chair as researchers monitor experiment, subject walks towards chair, various shots of subject with chair, subject interviewed on function of the experiment, shots of D1 mission patches, footage of chair rotating.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100143

**Title:** Eden: Live Action Recordings 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/18/1996

**Length:** 31

**Comments:** <plain>Live action recordings at Aerospatiale Bordeaux; the subject is the ESA astronaut Ockels, who flew on the D2 Spacelab mission. The footage illustrates the EDEN experiment, which investigates the functioning of the vestibular organ by measuring eye movements - shots include Aerospatiale scientist at computer, subject (in ESA overalls) being helped into rotating chair, chair rotates as subject's eye is monitored on a video screen. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100143

**Title:** Eden: Hi-8 Live Action Recordings

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 09/18/1996

**Length:** 8

**Comments:** <plain>Live action recordings at Aerospatiale Bordeaux; the subject is the ESA astronaut Ockels, who flew on the D2 Spacelab mission. The footage illustrates the EDEN experiment, which investigates the functioning of the vestibular organ by measuring eye movements. This tape contains material dubbed from a Hi-8 recording taken by a camera 'onboard' the rotating chair.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100144

**Title:** Ariane 4: Vol 73 Technical Films 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>The Ariane V73 rocket, bearing the Intelsat 706 satellite, was launched on May 17th, 1995. This tape contains various recordings of the launch, organised as: tour ombilicale, plaque a clapets LO2, 250 i/s; tor ombilicale, plaque a clapets LH2, 250 i/s; table, degagement PAL N/O, 300 i/s; table, degagement PAL S/E, 300 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100145

**Title:** Artemis R2: H2 Launch

**Type:** Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 48

**Comments** <plain>Excellent quality footage of a Japanese H2 rocket launch. Coverage of the pre-launch assembly is given, followed by general launch footage (including control room) Various ground to air recordings are also contained in the tape.</plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100145

**Title:** Artemis R2: H2 Launch

**Type:** Rushes

**Category:**

**Language** Mute

**Production Date** 00/00/00

**Length:** 48

**Comments** <plain>Excellent quality footage of a Japanese H2 rocket launch. Coverage of the pre-launch assembly is given, followed by general launch footage (including control room) Various ground to air recordings are also contained in the tape.</plain>

**Keywords** LAUNCHERS

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100146

**Title:** Artemis R1: H2 Launch

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 54

**Comments:** <plain>Excellent quality footage of a Japanese H2 rocket launch. The first section is shot from a camera mounted on the main stage of the vehicle; radio link is audible in Japanese. With the Earth in the background, the jettison of the solid fuel booster is clearly recorded. Various ground to recordings are also contained in the tape.</plain>

**Keywords:** LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100146

**Title:** H2 Launch

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 54

**Comments:** <plain>Excellent quality footage of a Japanese H2 rocket launch. The first section is shot from a camera mounted on the main stage of the vehicle; radio link is audible in Japanese. With the Earth in the background, the jettison of the solid fuel booster is clearly recorded. Various ground to recordings are also contained in the tape.</plain>

**Keywords:** LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100147

**Title:** Mars Pathfinder

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/02/1996

**Length:** 12

**Comments:** <plain>Launched in November 1995, the NASA Pathfinder mission to Mars will arrive at its destination in July 1997. The aim of the project is to explore the planet using a small rove vehicle. This video contains cleanroom footage of the construction of the Pathfinder vehicles, and the mating of the rover and lander components.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100148

**Title:** Meteosat and Envisat Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>Original animations to illustrate ESA's Envisat and Meteosat satellites.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100148

**Title:** Meteosat and Envisat Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>Original animations to illustrate ESA's Envisat and Meteosat satellites.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100148

**Title:** Meteosat and Envisat Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>Original animations to illustrate ESA's Envisat and Meteosat satellites.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100151

**Title:** Artemis Development

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1997

**Length:** 60

**Comments:** <plain>Location recordings of the construction of ESA's Artemis satellite, Jan - Mar 1997. Arranged as follows: - ESTEC: vibrational testing of structural model - Alenia, Rome: integral engineering model - BPD Colleferro: integral bearing structure and AOCS flight model - MMS Toulouse: SILEX engineering model - Alcatel Espace: payload electronics integration </plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100152

**Title:** Euromir '95: Reiter EVA Activity

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/20/1995

**Length:** 25

**Comments:** <plain>Camera recordings of ESA's Thomas Reiter performing EVA (Extra-Vehicular Activity) during the Euromir '95 mission.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100153

**Title:** Ariane 4: Vol 92 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:**

**Production Date:** 01/01/1997

**Length:** 36

**Comments:** <plain>The Ariane V92 rocket (44L), carrying the Arabsat 2 and Measat 2 payloads, was launched on November 13th 1996. This video contains various footage of the launch, organised as: toit portique, ouverture bras cryo, 152 i/s; tour ombilicale, plaque a clapets LO2, 250 i/s; tour ombilicale, plaque a clapets LH2, 250 i/s; table, degagement PAL N/O, 300 i/s; table, degagement PAL S/O, 300 i/s; table, degagement PAL S/E, 300 i/s; table, degagememt PAL N/E, 300 i/s; tour ombilicale, integrite lanceur, 200 i/s; shelter suc ombilicaux superieurs, 100 i/s; shelter sud, ombilicaux centraux, 100 i/s; shelter ouest, retombees ombilicaux, 100 i/s; shelter sud, ensemble des ombilicaux, 100 i/s; shelter e: comportement lanceur, 200 i/s; shelter ouest, allumage PAL et L220, 300 i/s; shelter nord, attitude 0-100m, 100 i/s; shelt est, attitude 0-100m, 100i/s; shelter sud, attitude 0-100m, 100 i/s; shelter CDL, attitude generale lanceur, 200i/s; Ile Royal, camera thermique, poursuite lanceur, 25 i/s (showing jetiss of solid fuel boosters); Toucan, camera thermique, poursuit lanceur, 25 i/s; </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100155

**Title:** Ariane 4: Kourou Rushes 11

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1988

**Length:** 19

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100157

**Title:** Ariane 4: Vol 22 Launch

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/15/1988

**Length:** 3

**Comments:** <plain>The Ariane V22 rocket, bearing the Meteosat P2, Amsat 111C and Panamsat payloads, was launched on Jun 15th 1988. This video contains helicopter footage of the launch. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100158

**Title:** Ariane 4: Vol 75 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 16

**Comments:** <plain>The Ariane V75 rocket, bearing the Helios 1A payload was launched on June 9th, 1995. The video contains the following footage: toit portique, ouverture bras cryo, 250 i/s tour ombilicale, plaque a clapets LO2, 250 i/s; tour ombilicale plaque a clapets LH2, 250 i/s; tour ombilicale, integrite lanceur, 250 i/s; toit portique, ensemble lanceur, 250 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100159

**Title:** Media Star tape one

**Type:** Rushes

**Category:** Documentary, general public

**Language:** Natural Sound Only

**Production Date:** 03/01/1996

**Length:** 32

**Comments:** <plain>Material relating to a documentary illustrating the possible uses of the Archimedes satellite. Content as follows: couple having breakfast, man reads newspaper; couple concentrate on laptop computer; digital satellite receiver in car, general driving shots; digital radio tuner. </plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100160

**Title:** Media Star tape two

**Type:** Rushes

**Category:** Documentary, general public

**Language:** Natural Sound Only

**Production Date:** 03/01/1996

**Length:** 5

**Comments:** <plain>Material relating to a documentary illustrating the possible uses of the Archimedes satellite. Content as follow general driving shots.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100162

**Title:** Euromir '94 Rushes: tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100165

**Title:** Euromir '94 Rushes: tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100166

**Title:** Euromir '94 Rushes: tape 3

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 36

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100167

**Title:** Euromir '94 Rushes: tape 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100168

**Title:** Euromir '94 Rushes: tape 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100169

**Title:** Euromir '94 Rushes: tape 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100170

**Title:** Euromir '94 Rushes: tape 7

**Type:** Rushes

**Category:** live-action recordings

**Language:**

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100171

**Title:** Euromir '94 Rushes: tape 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100172

**Title:** Euromir '94 Rushes: tape 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100173

**Title:** Euromir '94 Rushes: tape 10

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100174

**Title:** Euromir '94 Rushes: tape 11

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100175

**Title:** Euromir '94 Rushes: tape 12

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100176

**Title:** Euromir '94 Rushes: tape 13

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100177

**Title:** Euromir '94 Rushes: tape 14

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100178

**Title:** Euromir '94 Rushes: tape 15

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100179

**Title:** Euromir '94 Rushes: tape 16

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100180

**Title:** Euromir '94 Rushes: tape 17

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100181

**Title:** Euromir '94 Rushes: tape 18

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100182

**Title:** Euromir '94 Rushes: tape 19

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100183

**Title:** Euromir '94 Rushes: tape 20

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100185

**Title:** Euromir '94 Rushes: tape 22

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100186

**Title:** Euromir '94 Rushes: tape 23

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100187

**Title:** Euromir '94 Rushes: tape 24

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 54

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100188

**Title:** Euromir '94 Rushes: tape 25

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100189

**Title:** Euromir '94 Rushes: tape 26

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100190

**Title:** Euromir '94 Rushes: tape 27

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir. Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100192

**Title:** Euromir '94 Rushes: tape 29

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100193

**Title:** Euromir '94 Rushes: tape 30

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100194

**Title:** Euromir '94 Rushes: tape 31

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100195

**Title:** Euromir '94 Rushes: tape 33

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100197

**Title:** Euromir '94 Rushes: tape 35

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100199

**Title:** Euromir '94 Rushes: tape 37

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100200

**Title:** Euromir '94 Rushes: tape 38

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100201

**Title:** Euromir '94 Rushes: tape 39

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100202

**Title:** Euromir '94 Rushes: tape 40

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100203

**Title:** Euromir '94 Rushes: tape 41

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100204

**Title:** Euromir '94 Rushes: tape 42

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100207

**Title:** Euromir '94 Rushes: tape 45

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100209

**Title:** Euromir '94 Rushes: tape 47

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100210

**Title:** Euromir '94 Rushes: tape 48

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100211

**Title:** Euromir '94 Rushes: tape 21

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100212

**Title:** Euromir '94 Rushes: tape 32

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100213

**Title:** Euromir '94 Rushes: tape 43

**Type:** Rushes

**Category:** live-action recordings

**Language**

**Production Date** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100214

**Title:** Euromir '94 Rushes: tape 46

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100215

**Title:** Euromir '94 Rushes: tape 28

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100217

**Title:** Euromir '94 Rushes: tape 36

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100219

**Title:** Euromir '94 Rushes: tape 44

**Type:** Original Material

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Rushes relating to the Euromir '94 mission, launched October 3rd 1994 and involving the transfer of Ulf Merbold to Mir.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100220

**Title:** STS-84: Sky Live News Coverage

**Type:** Miscellaneous

**Category:** Library material

**Language:** English

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>The STS-84 Atlantis mission was launched on May 15th 1997. Atlantis is scheduled to carry out the sixth docki with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy, from France, makes his second trip into space. This Sky new s report contains a live recording of the pre-launch assembly, launch, ignition a lift-off, followed by commentaries and replays.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100221

**Title:** Euomir '95 Rushes: tape 23

**Type:** Rushes

**Category:** live-action recordings

**Language:** ME only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euomir missions involve the transfer of two European astronauts to the Russian space station Mir. Euomir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the Geman astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100222

**Title:** Euromir '95 Rushes: tape 22

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100223

**Title:** Euromir '95 Rushes: tape 21

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100224

**Title:** Euromir '95 Rushes: tape 20

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100225

**Title:** Euromir '95 Rushes: tape 11

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100226

**Title:** Euromir '95 Rushes: tape 10

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100227

**Title:** Euromir '95 Rushes: tape 25

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100228

**Title:** Euromir '95 Rushes: tape 24

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100229

**Title:** Euromir '95 Rushes: tape 17

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100230

**Title:** Euromir '95 Rushes: tape 16

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100231

**Title:** Euromir '95 Rushes: tape 14

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100232

**Title:** Euromir '95 Rushes: tape 12

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100233

**Title:** Euromir '95 Rushes: tape 26

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100234

**Title:** Euromir '95 Rushes: tape 19

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100235

**Title:** Euromir '95 Rushes: tape 18

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100236

**Title:** Euromir '95 Rushes: tape 30

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100237

**Title:** Euromir '95 Rushes: tape 29

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100238

**Title:** Euromir '95 Rushes: tape 28

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100239

**Title:** Euromir '95 Rushes: tape 27

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100240

**Title:** Euromir '95 Rushes: tape 33

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100241

**Title:** Euromir '95 Rushes: tape 32

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100242

**Title:** Euromir '95 Rushes: tape 31

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thomas Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100243

**Title:** Space Station - ATV Animation

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>An animation sequence to illustrate the proposed docking of ESA's ATV (Automated Transfer Vehicle) with the International Space Station.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00100247

**Title:** STS-84: Atlantis Liaison Broadcast

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 55

**Comments:** <plain>The Atlantis mission STS-84 was launched in May 1997. This mission included the transfer of ESA's Jean-Francois Clervoy to the Russian space station Mir - another key step towards Europe's role as a partner in the International Space Station. This live broadcast recording is organised as follows: Houston control room footage; link-up footage of Mir and Atlantis crews (recorded the day prior to undocking); cuts between Houston and Mir.</plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100248

**Title:** Euromir '95 Rushes: tape 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100249

**Title:** Euromir '95 Rushes: tape 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100250

**Title:** Euromir '95 Rushes: tape 35

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100251

**Title:** Euromir '95 Rushes: tape 34

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100252

**Title:** Euromir '95 Rushes: tape 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100253

**Title:** Euromir '95 Rushes: tape 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100254

**Title:** Euromir '95 Rushes: tape 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100256

**Title:** Euromir '95 Rushes: tape 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100257

**Title:** Euromir '95 Rushes: tape 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100258

**Title:** Euromir '95 Rushes: tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length:** 36

**Comments** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords** MANNED SPACEFLIGHT,EUROMIR

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100259

**Title:** Euromir '95 Rushes: tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length:** 36

**Comments** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thoma Reiter.</plain>

**Keywords** MANNED SPACEFLIGHT,EUROMIR

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100260

**Title:** STS-84: Crewtraining

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/04/1997

**Length:** 34

**Comments:** <plain>The STS-84 Atlantis mission will be launched on May 15th 1997. Atlantis is scheduled to carry out the sixth docki with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy, from France, will ma his second trip into space on this mission. This video demonstrates some of the pre-flight training exercises undertaken in preparation for the mission. the footage is organised as follows: CCT BAILOUT TRAINING: crew get into orange suits, shuttle simulator; Clervoy climbs stairs; th Russian cosmonaut Elena Kandakova tests deployment mechanism on simulator; Kandakova has helmet adjusted, discusses suit with Clervoy; crew "eject" from simulator, including dummy crew member (01:03:30:00 - 01:17:00:00). EVA PREPARATION: shuttle simulator, Clervoy discusses safety harness with other crew membe getting into suits, suits inflated (01:17:30:00 - 01:24:58:00). POST-INSERTION OPERATIONS: crew in orange suits, flight deck simulation; Clervoy closes lid of helmet; crew monitor flight deck equipment; Kandakova hel Clervoy out of orange suit (01:25:36:00 - 01:37:20:00).</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100262

**Title:** STS-78: Vehicle Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 16

**Comments:** <plain>Shots of the STS-78 crew as they drive along a dirt track in a caterpillar-tracked vehicle. Including footage of Pedro Duque, zooming in to ESA patch.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100263

**Title:** STS-78: Launch Training

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1996

**Length:** 3

**Comments:** <plain>The STS-78 NASA mission was launched in 1996. Crew as follows: Henricks, Kregel, Brady, Thirsk, Linnehan Favier, Helms. This video provides footage of the launch, including: crew emerging from operations and checkout building; being driven to launchpad on bus; pan up pre-launch assembly; tracking shot along gangway, entry point to shuttle launch; STS-78 mission patch; crew walk toward craft with hands on each others' shoulders; get into baskets; taking off helmets; crew photograph.</plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100264

**Title:** Euromir '95 Rushes: tape 13

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>The Euromir missions involve the transfer of two European astronauts to the Russian space station Mir. Euromir '95, launched on 3rd September 1995 and lasting 179 days, was undertaken by the German astronaut Thomas Reiter.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial



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**Pouction no.** 00100265

**Title:** Ariane 4: Vol 62 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 17

**Comments** <plain>The Ariane V62 rocket, bearing the DBS-1 and Thiacom-1 payloads, was launched on December 17th 199: The video contains the following launch footage; toit portiqu ouverture bras cryo, 125 i/s; tour ombilicale, plaque a clape LO2, 250 i/s; tour ombilicale, plaque a clapets LH2, 250 i/s; tour ombilicale, integrite lanceur, 125 i/s; toit portique, ensemble lanceur, 200 i/s; table, degagement PAL(1) N-O, 300 i/s; table, degagement PAL(2) S-O, 300 i/s; table, degagement PAL(3) S-E, 300 i/s; table, degagement PAL (4 N-E, 300 i/s. </plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100270

**Title:** Ariane 4: Vol. 64 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 13

**Comments** <plain>The Ariane V64 rocket, bearing the Intelsat VII and STRV 1A/1B payloads, was launched on June 17th 1994. The video contains the following launch footage; tour ombilicale, plaque a clapets LO2, 250 i/s; tour ombilicale, plaque a clapets LH2, 250 i/s; table, degagement PAL 1N/O, 300 i/s; table, degagement PAL 3 S/E, 300 i/s; toit portique, ouverture bras cryo, 125 i/s; toit portique, ensemble lanceu 200 i/s; tour ombilicale, integrite lanceur, 125 i/s.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100273

**Title:** Ariane 4: Vol. 62 Technical Films 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>The Ariane V62 rocket, bearing the DBS-1 and Thiacom-1 payloads, was launched on December 17th 199: The video contains the following launch footage: shelter ouest, retombees des ombilicaux, 100 i/s; shelter sud, ensemble des ombilicaux, 100 i/s; shelter CDL, attitude generale lanceur, 100 i/s; Toucan, poursuite lanceur, 90 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100277

**Title:** Bourget '97: VNR 1 Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/13/1997

**Length:** 9

**Comments:** <plain>Rushes of the 1997 Paris Airshow "Antonio Rodota" news release, with general footage of le Bourget.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100278

**Title:** le Bourget '97: Rodota rushes

**Type:** Rushes

**Category:** Interviews

**Language:** Various

**Production Date:** 06/13/1997

**Length:** 16

**Comments:** <plain>Interviews with the newly-appointed Director General of ESA, Antonio Rodota. In French, Italian and English; conducted at the Paris Airshow 1997.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100279

**Title:** Meteosat Animations

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/01/1994

**Length:** 1

**Comments:** <plain>Graphic sequences to illustrate ESA's meteorological satellite Meteosat.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100279

**Title:** Meteosat Animations

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/01/1994

**Length:** 1

**Comments:** <plain>Graphic sequences to illustrate ESA's meteorological satellite Meteosat.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100280

**Title:** ERS-1: Thailand Images tape one

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 04/20/1994

**Length:** 36

**Comments:** <plain>General views of traffic, ornate temple architecture, houseboat-dwellers, boats, towing crops on rafts, locals eating, timber, wood-milling, factories, passenger boat, </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100281

**Title:** ERS-1: Thailand Images tape two

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 04/20/1994

**Length:** 33

**Comments:** <plain>General footage recorded in Thailand, including: ground station with satellite receivers, analysts stand around computer terminal (Matra Cap Systemes logo), information being recorded on videotape, data processing centre, map laid out onto drawing board, computer operators, TM/SPOT processing system banks.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100282

**Title:** ERS-1: Thailand Images tape three

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 04/20/1994

**Length:** 35

**Comments:** <plain>General images relating to ESA's ERS-1 earth observation satellite, including: analysing results on paper, analysing image prints, shading in map images, images on computer screen, interview with ESA representative, National Research Council building, general traffic footage, agriculture, irrigation channels, flooded fields.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100283

**Title:** ERS-1: Thailand Images tape four

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 04/20/1994

**Length:** 32

**Comments:** <plain>General images, including: locals - mothers with infants, children, cows in wooden pen, timber being soaked river, children bathing, agriculture etc.; Asian Institute of Technology; analysis of ERS-1 images; European man asks questions to Asian researchers; interview with ESA representative.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100284

**Title:** ERS-1: Thailand Images tape five

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 14

**Comments:** <plain>Rushes of an interview with academic to give histor  
of Thai Ground Receiving Station. </plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100286

**Title:** ERS: Astrolab 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/05/1991

**Length:** 5

**Comments:** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since  
this time, monitoring ice has been regarded as very importa  
and extremely difficult. This footage demonstrates the ice-  
monitoring capabilities of ERS-1, following the voyage of  
"L'Astrolabe" through theNorth-East Passage across the toj  
of Russia. Various shots of vessel and coasteal  
scenery</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100286

**Title:** ERS: Astrolab 1 and 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/05/1991

**Length:** 12

**Comments:** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since this time, monitoring ice has been regarded as very important and extremely difficult. This footage demonstrates the ice-monitoring capabilities of ERS-1, following the voyage of "L'Astrolabe" through the North-East Passage across the top of Russia. Various shots of vessel and coastal scenery. [In GEN 2, parts 1 and 2 exist as separate cassettes...part 2 has production no. 100287]]</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100287

**Title:** ERS: Astrolab 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/05/1991

**Length:** 5

**Comments:** <plain>In 1912, the "Titanic" hit an iceberg and sank. Since this time, monitoring ice has been regarded as very important and extremely difficult. This programme demonstrates the ice-monitoring capabilities of ERS-1, following the voyage of "L'Astrolabe" through the North-East Passage across the top of Russia. Various shots of nuclear-powered icebreaking vessel and Astrolab, coastal scenery, wildlife etc.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100289

**Title:** ESA: Counsel Meeting '94

**Type:** Rushes

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 06/22/1994

**Length:** 25

**Comments:** <plain>Coverage of the ESA council meeting, held on June 22nd 1994. Including footage of Jean-Marie Luton. </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100290

**Title:** Aeroflot take-off.

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>General views - areoplane taking off, traffic (Berlin).</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100291

**Title:** Ministerial Conference '95: photo

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/19/1995

**Length:** 4

**Comments:** <plain>Footage from the ESA Ministerial Conference, held on October 19th 1995. Contains: taking the official photograph ministers, reception.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100292

**Title:** STS-78: Pre-Flight Crew Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Various

**Production Date:** 05/06/1996

**Length:** 13

**Comments:** <plain>The STS-78 NASA mission was launched in 1996. Crew as follows: Henricks, Kregel, Brady, Thirsk, Linnehan Favier, Helms. This video contains images of the crew emerging from a coach, answering questions in a line-up, crew members in cage-type free-fall simulator, various vie on launch scaffold, instructions to crew on how to use baskets, crew briefings.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100293

**Title:** Ariane 501: Cluster

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>The Ariane 501 launch failed on June 4th 1996. This video shows cleanroom footage of the Cluster astronomical satellites, a liquid hydrozine container being towed by a lori at CSG (Centre Spatiale Guyanis), various shots of launch in assembly building, launcher being towed to platform, various shots of launcher on platform, control room footage.</plain>

**Keywords:** LAUNCHERS,CLUSTER,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100295

**Title:** Ariane 501: Early Campaign

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 22

**Comments:** <plain>The Ariane 501 launch failed on June 4th 1996. This video provides coverage of the early part of the campaign, including: transport of components by MN Toucan vessel ar by road; various stages in assembly of solid fuel booster; booster towed on back of truck; integration of boosters and main stage; various shots of launcher on pad. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100296

**Title:** Ariane 501: Pre-Launch Helicopter Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1996

**Length:** 18

**Comments:** <plain>Ariane 501 is due to be launched on June 4th, 1996. This video contains helicopter rushes of: the launch site; Ariane 5 in its assembly building; the launcher being rolled to its launchpad; Ariane on the launchpad.</plain>

**Keywords:** LAUNCHERS,CSG KOUROU,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100297

**Title:** Ariane 5: Pre-Launch Helicopter Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/24/1994

**Length:** 16

**Comments:** <plain>Ariane 501 is due to be launched on June 4th, 1996. This video contains helicopter rushes taken over CSG Kourou, displaying the various areas and buildings.</plain>

**Keywords:** LAUNCHERS,CSG KOUROU,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100298

**Title:** Ariane 4: Vol 93 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:**

**Production Date:** 00/00/00

**Length:** 34

**Comments:** <plain>The Ariane 4 Vol. 93 launch was made on January 30th 1997, leading to deployment of the GE2 (USA) and Nahuel 1A (Arg.) satellites. The technical footage of the launch is as follows: toit portique, ouverture bras cryo, 125 tour ombilicale, integrite lanceur, 250 i/s; tour ombilicale, plaque a clapets LO2, 250 i/s; tour ombilicale, plaque a clapets LH2, 250 i/s; table, degagement PAL N/O, 300 i/s; table, degagement PAL S/O, 300 i/s; table, degagement PAL S/E, 300 i/s; table, degagement PAL N/E, 300 i/s; shelter sud, ombilicaux superiors, 100 i/s; shelter sud, ombilicaux centraux, 100 i/s; shelter ouest, retombees ombilicaux, 100 i/s; shelter sud, ensemble des ombilicaux, 100 i/s; shelter ouest, allumage PAL et L220, 300 i/s; shelter est, comportement lanceur, 200 i/s; shelter nord, attitude 0 - 100m, 100 i/s; shelter sud, attitude 0 - 100m, 100 i/s; shelter est, attitude 0 - 100m, 100 i/s; shelter CDL, attitude generale lanceur, 200 i/s; Ile Royale, camera thermique, poursuite lanceur; Toucan, camera thermique, poursuite lanceur.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100300

**Title:** Ariane 501: Selected Rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1996

**Length:** 32

**Comments:** <plain>A selection of rushes covering the pre-launch Ariane 501 campaign, including: the arrival of the MN Toucan vessel, unloading of freight (marked "ESA"), lorries behind "Centre Spatial Guyanais- Europe's Spaceport" sign, road transportation of components, arrival of launcher components at construction site, unloading components from lorries, components positioned in assembly building, various assembly footage, engineers with various company logos and overalls (Daimler-Benz, Matra Marconi, Mecaflumex, solid fuel booster rolled towards assembly building. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100301

**Title:** Virtual Reality Space Station June 1997

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 06/20/1997

**Length:** 14

**Comments:** <plain>A computer animation of the International Space Station, rendered in real-time on a Virtual Reality system commissioned for the ESA pavilion at the Paris Airshow (Lille Bourget), 1997. The programme shows both exterior and interior views of the Space Station in its latest configuration.</plain>

**Keywords:** SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100303

**Title:** le Bourget '97: Rushes tape one

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 06/20/1997

**Length:** 28

**Comments:** <plain>Rushes filmed at the Paris Airshow (le Bourget) 1997. Including - Reiter's sensor suit, baby sensor suit, BMW racing motorbike, carbon-carbon disc brakes, Vulcan engine, 3D space station video viewing (viewers with 3D glasses, screen in background, operator) </plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100304

**Title:** le Bourget '97: Rushes tape two

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 06/20/1997

**Length:** 32

**Comments:** <plain>Rushes recorded at the Paris Airshow (le Bourget) 1997. Including: Italian interview with Rodota, Huygens display, demonstration of Huygens 'Messages to Titan' database (including screen footage), demonstration of model space station (model, demonstrator with graphics on screen), crowds and exterior exhibits (planes), flight footage.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100305

**Title:** le Bourget 1997: Rushes tape three

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/20/1997

**Length:** 12

**Comments:** <plain>Rushes recorded at the Paris Airshow (le Bourget) 1997. Including: flyover footage of planes, crowds amongs display planes, </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100306

**Title:** le Bourget 1997: Rushes tape four

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/21/1997

**Length:** 23

**Comments:** <plain>Rushes recorded at the Paris Airshor (le Bourget 1997) - a collection of objects illustrating the principle of technology transfer. </plain>

**Keywords:** TECHNOLOGY TRANSFER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100307

**Title:** le Bourget 1997: Rushes tape five

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/21/1997

**Length:** 32

**Comments:** <plain>Rushes recorded at the Paris Airshow (le Bourget) 1997. Including various language (French, German, English) interviews between children and astronauts (Nicollier, Clervoy, Merbold).</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100308

**Title:** le Bourget 1997: Rushes tape six

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/21/1997

**Length:** 10

**Comments:** <plain>Rushes from the Paris Airshow (le Bourget) 1997. Images of ESA astronauts (Merbold, Clervoy) demonstrating space food to children (French, German, English). </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100309

**Title:** le bourget 1997: Rushes tape seven

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/21/1997

**Length:** 17

**Comments:** <plain>Rushes recorded at the Paris Airshow (le Bourget) 1997, including: crowds in the ESA pavilion, Ariane 5 model crowds (exterior), ESA pavilion (external), various aircraft exhibits, </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100310

**Title:** Bourget '97: Non-ESA Images

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/20/1997

**Length:** 5

**Comments:** <plain>Images from le Bourget (Paris Airshow) 1997 - helicopter footage of the site, ground footage of Ariane 5 model.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100311

**Title:** ERS-1: Frascati Images tape one

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/23/1992

**Length:** 34

**Comments:** <plain>Rushes relating to ESA's ERS-1 remote sensing satellite, recorded at Frascati in Italy. Footage as follows: lecture on the data provided by ERS-1; model of the satellite ESRIN building, interior views; data analysts working at computer terminals; ERS-1 Mission Planning office; exterior shots of ESRIN building; flags of the ESA nations.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100311

**Title:** ERS-1: Frascati Images tape one

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/23/1992

**Length:** 34

**Comments:** <plain>Rushes relating to ESA's ERS-1 remote sensing satellite, recorded at Frascati in Italy. Footage as follows: lecture on the data provided by ERS-1; model of the satellite ESRIN building, interior views; data analysts working at computer terminals; ERS-1 Mission Planning office; exterior shots of ESRIN building; flags of the ESA nations.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100312

**Title:** ERS-1: Frascati Images tape two

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/25/1992

**Length:** 35

**Comments:** <plain>Rushes relating to ESA's ERS-1 remote sensing satellite, recorded at Frascati in Italy. Footage as follows: screen output, various graphs and graphics to show path of the satellite over the Earth and results obtained.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100312

**Title:** ERS-1: Frascati Images tape two

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/25/1992

**Length:** 35

**Comments:** <plain>Rushes relating to ESA's ERS-1 remote sensing satellite, recorded at Frascati in Italy. Footage as follows: screen output, various graphs and graphics to show path of the satellite over the Earth and results obtained.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100315

**Title:** ERS-2: Original Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** M/E only

**Production Date:** 11/01/1994

**Length:** 8

**Comments:** <plain>Original ERS-2 3d animations, produced by ESA's Visulab</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100315

**Title:** ERS-2: Original Graphics

**Type:** Original Material

**Category:** Graphics

**Language** M/E only

**Production Date** 11/01/1994

**Length** 8

**Comments** <plain>Original ERS-2 3d animations, produced by ESA's  
Visulab</plain>

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100316

**Title:** ERS-2: Gome Animation

**Type:** Original Material

**Category:** Graphics

**Language** M/E only

**Production Date** 01/02/1995

**Length** 1

**Comments** <plain>3D animation of the ESA remote sensing satellite  
ERS-2 to illustrate the GOME ozone monitoring  
instrument.</plain>

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100318

**Title:** ERS-1: Rostrum Images

**Type:** Selected Rushes

**Category:** Library material

**Language** Mute

**Production Date** 01/01/1994

**Length** 7

**Comments** <plain>A series of images produced by ESA's remote  
sensing satellite, ERS-1. Recorded using rostrum  
camera.</plain>

**Keywords** REMOTE SENSING,ERS

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100321

**Title:** Ariane 501: EPS and Cluster transport

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1996

**Length:** 26

**Comments:** <plain>The Ariane 501 rocket is due to be launched on June 4th 1996. It will carry the European Space Agency's Cluster astronomical satellites into orbit. This video contains footage of Ariane 5's upper stage (EPS) being loaded onto a lorry and shipped via the MN Toucan; also the loading of Cluster satellites into transport containers (by engineers in Daimler-Benz overalls) and transportation by lorry.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100322

**Title:** STS-63 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 02/23/1995

**Length:** 43

**Comments:** <plain>The NASA STS-63 mission, involving a rendezvous between the Russian space station Mir and the American shuttle Orbiter, was launched in February 1995. Crew as follows: Jim Wetherbee, commander; Eileen Collins, pilot; Bernard Harris, payload commander; Mike Foale, mission specialist; Janice Voss, mission specialist; and the Russian cosmonaut Vladimir Titov. The presentation includes a video, organised as follows: crew in orange suits; leaving checkout and operations building; launch sequence, jettison of SRBs; Spacehab in payload bay, interior of Spacehab; protein crystallisation experiment; Charlotte onboard robot, turning switch; deploy of Oderacs spheres and dipole, for ground radar calibration; exhaust from oxidiser; views of shuttle from Mir (for first time ever), views of Mir; Elena Kondakova; split-screen Mir and shuttle; various views of Mir during docking; silhouette of Mir firing jets; Spartan satellite, release from robot arm; attaching electrodes prior to EVA, prebreathing; Spartan retrieval, view from robot arm camera; Spartan lowered back into payload bay; EVA astronauts or robotic arm, in payload bay with Spartan, various EVA shot glaciers in the Southern Andes; flight deck on re-entry, landing sequence. There is also a slide show, including the following images: night launch, various crew shots, Mir with Sun in background, Russian cosmonaut through window of Mir from 30 feet, Mir with Earth in background, working on various experiments, Spartan on arm, Spartan after deployment, EVA astronauts pre-breathing, solid surface combustion experiment, electromyogram, Earthviews - blue and white Niles, South American glaciers, Cape Town, shuttle landing.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100323

**Title:** Ariane 502: Arrival

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/13/1997

**Length:** 5

**Comments:** <plain>The launch of Ariane 502 is scheduled for 1997. This video shows delivery of components for the launcher: various shots of the MN Toucan vessel, harbour at Centre Spatiale Guyanis, unloading the freighter, components on lorries, helicopter footage of entrance to CSG (with model of Ariane 5), convoy of delivery vehicles.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100323

**Title:** Ariane 502: Arrival

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/13/1997

**Length:** 5

**Comments:** <plain>The launch of Ariane 502 is scheduled for 1997. This video shows delivery of components for the launcher: various shots of the MN Toucan vessel, harbour at Centre Spatiale Guyanis, unloading the freighter, components on lorries, helicopter footage of entrance to CSG (with model of Ariane 5), convoy of delivery vehicles.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100325

**Title:** STS-63: Post-Flight Presentation (video only)

**Type:** Selected Rushes

**Category:** Interviews

**Language:** Mute

**Production Date:** 02/01/1995

**Length:** 20

**Comments:** <plain>The NASA STS-63 mission, involving a rendezvous between the Russian space station Mir and the American shuttle Orbiter, was launched in February 1995. Crew as follows: Jim Wetherbee, commander; Eileen Collins, pilot; Bernard Harris, payload commander; Mike Foale, mission specialist; Janice Voss, mission specialist; and the Russian cosmonaut Vladimir Titov. The presentation includes a video, organised as follows: crew in orange suits; leaving checkout and operations building; launch sequence, jettison of SRBs; Spacehab in payload bay, interior of Spacehab; protein crystallisation experiment; Charlotte onboard robot, turning switch; deploy of Oderacs spheres and dipole, for ground radar calibration; exhaust from oxidiser; views of shuttle from Mir (for first time ever), views of Mir; Elena Kondakova; split-screen Mir and shuttle; various views of Mir during docking; silhouette of Mir firing jets; Spartan satellite, release from robot arm; attaching electrodes prior to EVA, prebreathing; Spartan retrieval, view from robot arm camera; Spartan lowered back into payload bay; EVA astronauts or robotic arm, in payload bay with Spartan, various EVA shot glaciers in the Southern Andes; flight deck on re-entry, landing sequence.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100326

**Title:** STS-83 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 22

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL,SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100327

**Title:** STS-84: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/06/1997

**Length:** 16

**Comments:** <plain>The STS-84 Atlantis mission was launched on May 15th 1997. The American shuttle Atlantis carried out the six docking with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy made his second trip into space. This post-flight video contains selected images from the launch, including: crew members in orange suits prior to lift-off; leaving operations and checkout building night launch; SRB falls to Earth; Clervoy opens hatch into Spacehab; silhouette of Mir from shuttle; view of shuttle from Mir; various views of docking procedure; Clervoy opening hatch to Mir; crews hugging and kissing; crews together in Mir (eating, opening chocolate, opening box from which float silver-coloured models); crews perform various activities within Mir; view from window, shuttle and curvature of the Earth; various views of the Earth, shot to include part of Mir each frame; American crew present T-shirts to Russian cosmonauts; crews hug each other goodbye; undocking, view of target through split-screen camera; view of shuttle from Mir; Kondakova and Clervoy work inside the Spacehab (gloved hands within Biorack, logo visible-tadpoles used in vestibular experiments); various experiments - LME fluid motion experiment, view from inside rotating tray; tightening bolts on panel; huge paper printout; pitta bread and fluid globule (with human reflection) in microgravity; various exercising; crew float down chute together laughing; various Earthviews; sunset; getting into orange suits prior to re-ent payload bay doors close; crew on flight deck, re-entry - flashes through window, various ground views of Atlantis; views from Atlantis as it approaches Earth; landing sequence  
</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100327

**Title:** STS-84: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/06/1997

**Length:** 16

**Comments:** <plain>The STS-84 Atlantis mission was launched on May 15th 1997. The American shuttle Atlantis carried out the six docking with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy made his second trip into space. This post-flight video contains selected images from the launch, including: crew members in orange suits prior to lift-off; leaving operations and checkout building; night launch; SRB falls to Earth; Clervoy opens hatch into Spacehab; silhouette of Mir from shuttle; view of shuttle from Mir; various views of docking procedure; Clervoy opening hatch to Mir; crews hugging and kissing; crews together in Mir (eating, opening chocolate, opening box from which float silver-coloured models); crews perform various activities within Mir; view from window, shuttle and curvature of the Earth; various views of the Earth, shot to include part of Mir each frame; American crew present T-shirts to Russian cosmonauts; crews hug each other goodbye; undocking, view of target through split-screen camera; view of shuttle from Mir; Kondakova and Clervoy work inside the Spacehab (gloved hands within Biorack, logo visible-tadpoles used in vestibular experiments); various experiments - LME fluid motion experiment, view from inside rotating tray; tightening bolts on panel; huge paper printout; pitta bread and fluid globule (with human reflection) in microgravity; various exercising; crew float down chute together laughing; various Earthviews; sunset; getting into orange suits prior to re-ent payload bay doors close; crew on flight deck, re-entry - flashes through window, various ground views of Atlantis; views from Atlantis as it approaches Earth; landing sequen

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100327

**Title:** STS-84: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/06/1997

**Length:** 16

**Comments:** <plain>The STS-84 Atlantis mission was launched on May 15th 1997. The American shuttle Atlantis carried out the six docking with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy made his second trip into space. This post-flight video contains selected images from the launch, including: crew members in orange suits prior to lift-off; leaving operations and checkout building; night launch; SRB falls to Earth; Clervoy opens hatch into Spacehab; silhouette of Mir from shuttle; view of shuttle from Mir; various views of docking procedure; Clervoy opening hatch to Mir; crews hugging and kissing; crews together in Mir (eating, opening chocolate, opening box from which float silver-coloured models); crews perform various activities within Mir; view from window, shuttle and curvature of the Earth; various views of the Earth, shot to include part of Mir each frame; American crew present T-shirts to Russian cosmonauts; crews hug each other goodbye; undocking, view of target through split-screen camera; view of shuttle from Mir; Kondakova and Clervoy work inside the Spacehab (gloved hands within Biorack, logo visible-tadpoles used in vestibular experiments); various experiments - LME fluid motion experiment, view from inside rotating tray; tightening bolts on panel; huge paper printout; pitta bread and fluid globule (with human reflection) in microgravity; various exercising; crew float down chute together laughing; various Earthviews; sunset; getting into orange suits prior to re-ent payload bay doors close; crew on flight deck, re-entry - flashes through window, various ground views of Atlantis; views from Atlantis as it approaches Earth; landing sequen

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100329

**Title:** Ministerial Conference '95: montage

**Type:** Selected Rushes

**Category:** miscellaneous

**Language** Natural Sound Only

**Production Date** 10/19/1995

**Length:** 5

**Comments** <plain>A montage of images relating to the ESA Toulouse Ministerial Conference of 18-20 October 1995 - space static graphics, CSG Ariane 5 graphics, various delegates, astronaut link-up (Reiter), ATV graphic, Ariane 4 launch, various ministers (including Luton).</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100330

**Title:** Underwater Microgravity Training

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 01/01/1997

**Length:** 14

**Comments** <plain>Footage of ESA astronauts training underwater, thus simulating the effects of weightlessness in space; neutral buoyancy training and swimming through hoops.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100331

**Title:** Ariane 5 Fairing Manufacture

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 29

**Comments:** <plain>Material illustrating the various processes in the manufacture of the fairing for the Ariane 5 launcher - including cleanroom footage, and screen outputs of the design plans. Recorded at Oerlikon-Contraves in Zurich. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100332

**Title:** ERS-1 Acoustic Test 4 (Toulouse)

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/21/1989

**Length:** 0

**Comments:** <plain>see shotlist for details</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100333

**Title:** ERS-1 tape 5 (Toulouse)

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>see shotlist for details</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100334

**Title:** ERS-1 tape 2 (Toulouse)

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>see shotlist for details</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100335

**Title:** ERS-1 tape 6 (Toulouse)

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/22/1989

**Length:** 20

**Comments:** <plain>see shotlist for details</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100337

**Title:** ERS-1 Acoustic Test 3 (Toulouse)

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/21/1989

**Length:** 17

**Comments:** <plain>see shotlist for details </plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100339

**Title:** Ariane 502 Flight Animations

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/01/1997

**Length:** 2

**Comments:** <plain>Series of animations detailing the scheduled Ariane 502 qualification launch. Note that the second deployment illustrated is no longer relevant.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100339

**Title:** Ariane 502 Flight Animations

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/01/1997

**Length:** 2

**Comments:** <plain>Series of animations detailing the scheduled Ariane 502 qualification launch. Note that the second deployment illustrated is no longer relevant.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100339

**Title:** Ariane 502 Flight Animations: Long Version

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/01/1997

**Length:** 38

**Comments:** <plain>A real-time animation of the launch and stage separation of the Ariane 502 qualification flight.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100339

**Title:** Ariane 502 Flight Animations: Long Version

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/01/1997

**Length:** 38

**Comments:** <plain>A real-time animation of the launch and stage separation of the Ariane 502 qualification flight.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100340

**Title:** 51L Pre-Launch Activity/ Launch Failure

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1986

**Length:** 15

**Comments:** <plain>The 25th American shuttle flight, that of the Challenger in January 1986, ended in disaster. Due to a technical fault, flight 51L resulted in the vehicle exploding prior to SRB jettison. This footage covers the following stages: Challenger crew members climb into van; crew are kitted-up in the white room, shake hands with personnel; th Challenger on its launchpad; ignition, liftoff and explosion; smoke plume and raindown of debris into sea.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100340

**Title:** 51L Pre-Launch Activity/ Launch Failure

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1986

**Length:** 15

**Comments:** <plain>The 25th American shuttle flight, that of the Challenger in January 1986, ended in disaster. Due to a technical fault, flight 51L resulted in the vehicle exploding prior to SRB jettison. This footage covers the following stages: Challenger crew members climb into van; crew are kitted-up in the white room, shake hands with personnel; Challenger on its launchpad; ignition, liftoff and explosion; smoke plume and raindown of debris into sea.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100342

**Title:** Spacelab 81 Montage

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 31

**Comments:** <plain>Various cleanroom footage of the construction of the first Spacelab module in 1981.</plain>

**Keywords:** SPACELAB,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100342

**Title:** Spacelab 81 Montage

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 31

**Comments:** <plain>Various cleanroom footage of the construction of the first Spacelab module in 1981.</plain>

**Keywords:** SPACELAB

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100343

**Title:** Nicollier Navette Training

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 27

**Comments:** <plain>Footage of ESA astronaut Claude Nicollier training with NASA. Material includes: harness mechanism is explained to Nicollier; Nicollier is helped into EVA [extra-vehicular activity] suit; Nicollier is lowered into pool in frame underwater footage, Nicollier in microgravity simulator; EVA simulation with robot arm; dive monitoring.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast



---

**Pouction no.** 00100343

**Title:** Nicollier Navette Training

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 27

**Comments:** <plain>Footage of ESA astronaut Claude Nicollier training with NASA. Material includes: harness mechanism is explained to Nicollier; Nicollier is helped into EVA [extra-vehicular activity] suit; Nicollier is lowered into pool in frame underwater footage, Nicollier in microgravity simulator; EVA simulation with robot arm; dive monitoring.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100344

**Title:** ESTEC Construction

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>Footage of the construction of ESTEC, at Noordwijk in the Netherlands.</plain>

**Keywords:** ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100344

**Title:** ESTEC Construction

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>Footage of the construction of ESTEC, at Noordwijk in the Netherlands.</plain>

**Keywords:** ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100345

**Title:** Ariane 501: Rollout and Cluster Integration

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/05/1996

**Length:** 31

**Comments:** <plain>A compilation of footage from the Ariane 501 campaign. Contains: rollout of Ariane 501 launcher to final assembly building; various footage of the integration and encapsulation of Cluster satellites; ESA and Cluster logos added to fairing; general views of launch control centre; Ariane 5 in final assembly building; rollout of Ariane 5 to launchpad</plain>

**Keywords:** LAUNCHERS,CLUSTER,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100346

**Title:** Ariane 4: Vol. 97 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 06/03/1997

**Length:** 25

**Comments:** <plain>The Ariane 4 Vol. 97 [44L] launch carried the Insat 2I and Inmarsat 3F4 satellites into orbit on June 3rd, 1997. This video contains various footage of the launch, shot from different locations and at different speeds.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100347

**Title:** Ariane 4: Vol. 95 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 05/01/1997

**Length:** 36

**Comments:** <plain>On April 16th 1997, the Ariane 44LP flight Vol. 95 carried the satellites Thiacon 3 and B-Sat 1A into orbit. This video transmission contains footage of the launch, shot from different viewpoints and at different speeds. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100348

**Title:** Ariane 4: Vol. 96 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Intelsat 802 was launched by Ariane 4 [44P, Vol. 96] on June 25th 1997. This video contains footage of the launch shot from different locations and at different speeds</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100349

**Title:** Ariane 4: Vol. 98 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 08/08/1997

**Length:** 13

**Comments:** <plain>Panamsat 6 was launched by Ariane 44P [Vol. 98] on August 8th 1997. This film contains technical footage of the launch, shot at different speeds and from different positions.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100351

**Title:** Munich Ariane Vox Pops 1

**Type:** Rushes

**Category:** Interviews

**Language:** German

**Production Date:** 07/14/1993

**Length:** 22

**Comments:** <plain>Interview with Otto Schmeller, Deutsche Telecom on the subject of Ariane launchers.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100352

**Title:** Munich Ariane Vox Pops 2

**Type:** Rushes

**Category:** Interviews

**Language:** German

**Production Date:** 07/14/1993

**Length:** 35

**Comments:** <plain>Vox pops on the subject of Ariane outside the Deutsche Museum</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100353

**Title:** Munich Ariane Vox Pops 4

**Type:** Rushes

**Category:** Interviews

**Language:** English and German

**Production Date:** 07/15/1993

**Length:** 31

**Comments:** <plain>Vox pops on the subject of Ariane inside the Deutsches Museum</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100354

**Title:** Munich Ariane Vox Pops 5

**Type:** Rushes

**Category:** Interviews

**Language:** German

**Production Date:** 07/15/1993

**Length:** 29

**Comments:** <plain>Vox pops on the subject of Ariane in the Deutsche Museum</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100355

**Title:** Munich Ariane Vox Pops 6

**Type:** Rushes

**Category:** Interviews

**Language:** German

**Production Date:** 07/15/1993

**Length:** 34

**Comments:** <plain>Munich Ariane Vox Pops 5</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100356

**Title:** la Villette Ariane Vox Pops 1

**Type:** Rushes

**Category:** Interviews

**Language:** French

**Production Date:** 07/16/1993

**Length:** 36

**Comments:** <plain>Vox pops concerning the Ariane launchers recorded at la Villette, France</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100357

**Title:** la Villette Ariane Vox Pops 2

**Type:** Rushes

**Category:** Interviews

**Language:** French and English

**Production Date:** 07/16/1993

**Length:** 33

**Comments:** <plain>Vox pops on the subject of Ariane launchers recorded at la Villette, France</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100358

**Title:** la Villette Ariane Vox Pops 3

**Type:** Rushes

**Category:** Interviews

**Language:** French

**Production Date:** 07/15/1993

**Length:** 35

**Comments:** <plain>Vox pops concerning the Ariane launchers, recorded at la Villette, France. Cutaway sequence of people walking away from building at start of tape.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100359

**Title:** la Villette Ariane Vox Pops 4

**Type:** Rushes

**Category:** Interviews

**Language** French, German and English

**Production Date** 07/15/1993

**Length:** 34

**Comments:** <plain>Vox pops concerning the Ariane launcher recorded  
la Villette, France.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100360

**Title:** la Villette Ariane Vox Pops 5

**Type:** Rushes

**Category:** Interviews

**Language** French, German and English

**Production Date** 07/15/1993

**Length:** 26

**Comments:** <plain>Vox pops concerning the Ariane launchers recorder  
la Villette, France. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100361

**Title:** Italy Ariane Vox Pops 1

**Type:** Rushes

**Category:** Interviews

**Language** Italian

**Production Date** 09/17/1993

**Length:** 34

**Comments:** <plain>Vox pops concerning Ariane launchers, recorded in  
Italy</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100362

**Title:** Italy Ariane Vox Pops 2

**Type:** Rushes

**Category:** Interviews

**Language** Italian

**Production Date** 09/17/1993

**Length:** 29

**Comments:** <plain>Vox pops concerning Ariane launchers, recorded in Italy.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100363

**Title:** Italy Ariane Vox Pops 3

**Type:** Rushes

**Category:** Interviews

**Language** Italian

**Production Date** 09/17/1993

**Length:** 4

**Comments:** <plain>Vox-pops on the subject of Ariane launchers, recorded in Italy. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100365

**Title:** Science Museum Ariane Vox Pops 1

**Type:** Rushes

**Category:** Interviews

**Language** French and English

**Production Date** 07/13/1993

**Length:** 31

**Comments:** <plain>Vox Pops on the subject of Ariane launchers, recorded outside the Natural History Museum in London </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** broadcast



---

**Pouction no.** 00100366

**Title:** Science Museum Ariane Vox Pops 2

**Type:** Rushes

**Category:** Interviews

**Language:** English

**Production Date:** 07/13/1993

**Length:** 32

**Comments:** <plain>Vox pops concerned with the Ariane launchers, recorded outside [and in the foyer of] the Science Museum, London.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100367

**Title:** Science Museum Ariane Vox Pops 3

**Type:** Rushes

**Category:** Interviews

**Language:** English

**Production Date:** 07/13/1993

**Length:** 31

**Comments:** <plain>Vox pops of children asked about ESA and Ariane, recorded in the foyer of the Natural History Museum, London.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100368

**Title:** Science Museum Ariane Vox Pops 4

**Type:** Rushes

**Category:** Interviews

**Language:** English

**Production Date:** 07/13/1993

**Length:** 27

**Comments:** <plain>Vox pops concerning the Ariane launchers, recorded in the Science Museum, London.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100369

**Title:** Kourou Atmosphere Shots

**Type:** Rushes

**Category:** Library material

**Language** Mute

**Production Date** 01/01/1995

**Length:** 21

**Comments:** <plain>General atmospheric footage of Cayenne and Kourou </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100370

**Title:** ESA Press Conference 23/07/96

**Type:** Rushes

**Category:** live-action recordings

**Language** French

**Production Date** 07/23/1996

**Length:** 36

**Comments:** <plain>Coverage of the Ariane 5 Post-Flight Press Conference with ESA Director-General Jean-Marie Luton and the members of the Ariane 501 launch failure investigation board (Chairman Jacques-Louis Lions), held on July 23rd 1996. </plain>

**Keywords** LAUNCHERS,ESA GENERAL,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100371

**Title:** Ariane 4 Vehicle Equipment Bay

**Type:** Rushes

**Category:** live-action recordings

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain>Footage depicting the vehicle equipment bay utilised on the Ariane 4 series of launchers, including the inertial platform navigation system.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100372

**Title:** Ariane 502 3-D Computer Graphics Version 2

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>Computer graphics sequences produced for the Ariane 502 launch. Four sequences: fairing separation ; ma stage and upper-stage separation ; injection of Maqsat H in GTO and separation of SPELTRA. The fourth sequence is a fly-by of Ariane 5 on its launch pad. Ariane 5 is partly cut-away mto show its interior and carries two large telecommunications satellites.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100372

**Title:** Ariane 502 3-D Computer Graphics Version 2

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>Computer graphics sequences produced for the Ariane 502 launch. Four sequences: fairing separation ; ma stage and upper-stage separation ; injection of Maqsat H in GTO and separation of SPELTRA. The fourth sequence is a fly-by of Ariane 5 on its launch pad. Ariane 5 is partly cut-away mto show its interior and carries two large telecommunications satellites.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100373

**Title:** Ariane 502 nominal flight (virtual reality)

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 09/01/1997

**Length:** 50

**Comments:** <plain>This computer graphics of the nominal flight of Ariane 502 has been generated with a virtual reality work station. It shows the attitude and the location of the launcher through the mission as well as the main flight parameters (speed, altitude, time since lift-off) keyed into the images. Separation and payload ejections are also shown.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

---

**Pouction no.** 00100374

**Title:** Ariane 502 Graphics 1

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 09/08/1997

**Length:** 4

**Comments:** <plain>Original material used in the fabrication of images for the Ariane 502 campaign.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100375

**Title:** Ariane 502 Graphics 2

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 09/09/1997

**Length:** 2

**Comments:** <plain>Original material used in the fabrication of images for the Ariane 502 campaign.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100376

**Title:** Ariane 502 3-D Computer Graphics Version 1

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 09/05/1997

**Length:** 4

**Comments:** <plain>4 graphic sequences to show the structure of the Ariane 5 launcher, including stage separation and payload deployment. Later version exists.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100376

**Title:** Ariane 502 3-D Computer Graphics Version 1

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 09/05/1997

**Length:** 4

**Comments:** <plain>4 graphic sequences to show the structure of the Ariane 5 launcher, including stage separation and payload deployment. Later version exists.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100378

**Title:** Ariane 502 Rollout Rehearsal

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/03/1997

**Length:** 32

**Comments:** <plain>Camera rushes showing the rollout of the Ariane 502 launcher from the integration building to its launchpad in a systems rehearsal exercise.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100379

**Title:** ESOC Location Recordings Tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1997

**Length:** 32

**Comments:** <plain>Location recordings taken at ESOC - the European Space Operations Centre in Darmsdadt, Germany. Including flight dynamics meeting, flight dynamics room, </plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100380

**Title:** ESOC Location Recordings Tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1997

**Length:** 35

**Comments:** <plain>Location recordings taken at ESOC - the European Space Operations Centre in Darmsdadt, Germany. Including various footage from satellite control rooms.</plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100381

**Title:** ESOC Location Recordings Tape 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Camera recordings taken at ESOC - the European Space Operations Centre in Darmstadt, Germany. Including - posters of Huygens/ Cassini mission, ground configuration control room, communications control area, exterior of building, computer centre. </plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100385

**Title:** STS-78 Flight Day 7 Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/26/1996

**Length:** 13

**Comments:** <plain>The STS-78 shuttle mission was launched at the end of June 1996. ESA had five major facilities and responsibility for more than half the experiments onboard the multi-discipline Life and Microgravity Spacelab [LMS] mission. These experiments studied the effects of gravity on the human body, the development of plants and animals, fluid behaviour and the processing of protein crystals and metal alloys. Crew members were as follows: Tom Henricks [NASA], Kevin Kregel [NASA], Susan Helms [NASA], Richard Linnehan [NASA], Charles Brady [NASA], Robert Thirsk [CSA], Jean-Jacques Favier [CNES]. The video contains recordings of in-flight experimentation. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100386

**Title:** STS-78 Flight Day 4 Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/23/1996

**Length:** 15

**Comments:** <plain>The STS-78 shuttle mission was launched at the end of June 1996. ESA had five major facilities and responsibility for more than half the experiments onboard the multi-discipline Life and Microgravity Spacelab [LMS] mission. These experiments studied the effects of gravity on the human body, the development of plants and animals, fluid behaviour and the processing of protein crystals and metal alloys. Crew members were as follows: Tom Henricks [NASA], Kevin Kregel [NASA], Susan Helms [NASA], Richard Linnehan [NASA], Charles Brady [NASA], Robert Thirsk [CSA], Jean-Jacques Favier [CNES]. Footage includes in-flight crew conference, experimentation. </plain>

**Keywords:** SPACELAB,SHUTTLE MISSIONS,NASA GENERAL,MANN

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100387

**Title:** Ariane 4: Vol. 99 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>The Ariane 4 Vol. 99 launch, on September 2nd 1997, carried the Hot Bird 3 and Meteosat 7 satellites into orbit. The video contains technical fixed camera film footage of the launch, including: tout portique, ouverture bras cryo, 125 i/s; tour ombilicale, plaque a clapets, 250 i/s; tour ombilicale, plaque a clapets, 250 i/s; degagement PAL nord/ouest, 300 i/s; degagement PAL sud/est, 300 i/s; integrite lanceur, 400 i/s; ombilicaux superiors, 100 i/s; ombilicaux centraux 100 i/s; retombees des ombilicaux, 100 i/s; retombees des ombilicaux, 100 i/s; simultaneite allumage PAP, 1000 i/s; allumage PAP sud/ouest, 1000 i/s; shelter est, attitude 0-100m, 100 i/s; shelter sud, attitude 0-100m, 100 i/s; shelter nord, attitude 0-100m, 100 i/s; shelter cdl, attitude generale lanceur, 200 i/s; shelter CDL, attitude generale lanceur, 200 i/s. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100388

**Title:** Ariane 4: Vol. 99 Technical Films 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 25

**Comments:** <plain>The Ariane 4 Vol. 99 launch, on September 2nd 199; carried the Hot Bird 3 and Meteosat 7 satellites into orbit. Tr video contains technical fixed camera film footage of the launch and flight, including clear stage separations. As follows: poursuite manuelle lanceur, 90 i/s; cine telescope, i/s; cine telescope thermique, 25 i/s; montabo thermique, 25 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100389

**Title:** Ariane 502 and Satellites Pre-Launch 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/09/1997

**Length:** 14

**Comments:** <plain>Rushes depicting the arrival, assembly, test rollout and satellite integration of the Ariane 502 launcher. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100390

**Title:** Lunar Lander

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>A series of flight tests of NASA's lunar landing module, carried out between 1965 and 1972. </plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100391

**Title:** 3D Graphics Europe/US/Kourou

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>Ariane 5 graphics - rocket trajectory, globe showing tracking from Europe/US/Kourou.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100391

**Title:** 3D Graphics Europe/US/Kourou

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>Ariane 5 graphics - rocket trajectory, globe showing tracking from Europe/US/Kourou.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100394

**Title:** Rushes CSG/ 502 Launcher and Satellites

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1997

**Length:** 72

**Comments:** <plain>Helicopter rushes of CSG Kourou and the surrounding area, taken on June 3rd 1996 [the day before t Ariane 501 launch] with a Wescam-stabilized camera; rush of the Ariane 502 launcher campaign, taken between June 13th 1997 and July 31st 1997; rushes of the Ariane 502 satellite campaign. </plain>

**Keywords:** LAUNCHERS,CSG KOUROU,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100395

**Title:** ISS - Virtual Reality Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 10/01/1997

**Length:** 20

**Comments:** <plain>Virtual reality graphics showing the structure and docking facilities of the projected International Space Station. Also including graphics of the Ariane 5 launcher, and some sequences of astronauts working inside the Columbus Orbital Facility [COF].</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100395

**Title:** ISS - Virtual Reality Graphics

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 10/01/1997

**Length:** 20

**Comments** <plain>Virtual reality graphics showing the structure and docking facilities of the projected International Space Station. Also including graphics of the Ariane 5 launcher, and some sequences of astronauts working inside the Columbus Orbital Facility [COF].</plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100396

**Title:** ESTEC Inauguration

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 9

**Comments** <plain>Starting with general construction footage, this film covers the inauguration of ESTEC by H.R.H Princess Beatrix and H.R.H Prince Claus on April 3rd, 1968.</plain>

**Keywords** HISTORICAL MATERIAL,ESTEC,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100396

**Title:** ESTEC Inauguration

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 9

**Comments** <plain>Starting with general construction footage, this film covers the inauguration of ESTEC by H.R.H Princess Beatri and H.R.H Prince Claus on April 3rd, 1968.</plain>

**Keywords** HISTORICAL MATERIAL,ESTEC,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100397

**Title:** Redu Satellite Tracking Station

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 9

**Comments** <plain>Various footage of the Redu satellite tracking station Belgium, including construction footage.</plain>

**Keywords** TELECOMMUNICATIONS,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100397

**Title:** Redu Satellite Tracking Station

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length** 9

**Comments** <plain>Various footage of the Redu satellite tracking station Belgium, including construction footage.</plain>

**Keywords** TELECOMMUNICATIONS,HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100398

**Title:** Ariane 4: Vol. 100 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/01/1997

**Length:** 0

**Comments:** <plain>The Ariane 4 V100 launch, carrying the Intelsat 803 satellite into orbit, took place on September 23rd 1997. This video contains fixed camera film footage of the launch, shot from a number of viewpoints and at different speeds. Organised as follows: ouverture bras cryo, 125 i/s; plaque clapets, 250 i/s; plaque a clapets, 250 i/s; integrite lanceur, 400 i/s; degagement PAL, 300 i/s; degagement PAL, 300 i/s; ombilicaux superiors, 100 i/s; retombees des ombilicaux, 10 i/s; ensemble des ombilicaux, 100 i/s; comportement lanceur 200 i/s; attitude 0-100m, 100 i/s; attitude 0-100m, 100 i/s; attitude 0-100m, 100 i/s; attitude generale lanceur, 100 i/s; attitude generale lanceur, 200 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100399

**Title:** Ariane 4: Vol. 100 Technical Films 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/01/1997

**Length:** 23

**Comments:** <plain>The Ariane 4 V100 launch, carrying the Intelsat 803 satellite into orbit, took place on September 23rd 1997. This video contains footage of the launch, shot from a number of viewpoints, at different speeds and using different film techniques. Organised as follows: poursuite manuelle lanceur, 90 i/s; poursuite lanceur, 25 i/s; ROY the, poursuite lanceur, 25 i/s; ROY video, poursuite lanceur, 25 i/s [with excellent view of stage separation]; ROY the poursuite lanceur, 25 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100400

**Title:** Bourget '95 Manned Spaceflight Compilation

**Type:** Miscellaneous

**Category:** Music clip

**Language** M/E only

**Production Date** 01/08/1997

**Length** 14

**Comments** <plain>A series of music clips, produced for le Bourget [Paris Airshow] 1995, containing montages of manned spaceflight missions which have included ESA astronauts. Organised as follows: the Atlas-3 mission [STS-66, ESA astronaut Clervoy, November 1994]; the STS-61 mission [Nicollier, Hubble Space Telescope servicing mission, December 1993]; the Spacelab IML-1 mission [STS-42, Ulf Merbold, January 1992]; the Eureka-1 mission [STS-46, Claude Nicollier, July 1992]; the Spacelab D1 mission [STS-9, Ulf Merbold, November 1983]; the Euromir 95 mission [Thomas Reiter, September 1995]; the Euromir 94 mission [Ulf Merbold, October 1994].</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100401

**Title:** Bourget '95 General Compilation

**Type:** Miscellaneous

**Category:** Music clip

**Language** M/E only

**Production Date** 00/00/00

**Length** 20

**Comments** <plain>A compilation of ESA material produced for le Bourget [Paris Airshow] 1995. Including, in music-clip format general images of: helicopter footage of the ESTEC building satellite testing in large space simulator; virtual reality simulation [with headset] of working in microgravity; the Gic mission; the Hipparcos mission; the Hubble repair mission; the SOHO mission; Meteosat; the ERS project; Olympus; the Euromir '94 mission; Spacelab; Ariane 1-4, Ariane 501; the International Space Station.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100402

**Title:** Meteosat 1

**Type:** Original Material

**Category:** miscellaneous

**Language** Mute

**Production Date** 01/01/1978

**Length:** 15

**Comments:** <plain>ESA's meteorological satellite Meteosat-1 was launched on November 23rd, 1977. This film contains black and white footage of scenes taken by Meteosat between the 24th and 27th of April 1978. </plain>

**Keywords:** WEATHER SATELLITES,METEOSAT,HISTORICAL MATE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100402

**Title:** Meteosat 1

**Type:** Original Material

**Category:** miscellaneous

**Language** Mute

**Production Date** 01/01/1978

**Length:** 15

**Comments:** <plain>ESA's meteorological satellite Meteosat-1 was launched on November 23rd, 1977. This film contains black and white footage of scenes taken by Meteosat between the 24th and 27th of April 1978. </plain>

**Keywords:** WEATHER SATELLITES,METEOSAT,HISTORICAL MATE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100403

**Title:** STS-85 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100404

**Title:** Ariane LO3 [Meteosat-Apple]

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 5

**Comments:** <plain>The Ariane LO3 launch, on June 19th 1981, carried the Meteosat-2 and Apple satellites into orbit. This film contains footage of satellite construction, the satellites being loaded onto specially-adapted freight plane, and satellite assembly at CSG Kourou. </plain>

**Keywords:** WEATHER SATELLITES,METEOSAT,HISTORICAL MATE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100404

**Title:** Ariane LO3 [Meteosat-Apple]

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 5

**Comments:** <plain>The Ariane LO3 launch, on June 19th 1981, carried the Meteosat-2 and Apple satellites into orbit. This film contains footage of satellite construction, the satellites being loaded onto specially-adapted freight plane, and satellite assembly at CSG Kourou. </plain>

**Keywords:** WEATHER SATELLITES,METEOSAT,HISTORICAL MATE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100405

**Title:** Ariane LO3 [Meteosat-Apple]

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 5

**Comments** <plain>The Ariane LO3 launch, on June 19th 1981, carried the Meteosat-2 and Apple satellites into orbit. This film contains footage of satellite construction, the satellites being loaded onto specially-adapted freight plane, and satellite assembly at CSG Kourou. </plain>

**Keywords** METEOSAT,HISTORICAL MATERIAL,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100406

**Title:** Esrange: The First Campaign

**Type:** Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 01/11/1966

**Length:** 8

**Comments** <plain>Rushes shot in November 1966 at the Kiruna tracking station in North Sweden, ESRO's first sounding rocket launch site [Esrange]. Including: a helicopter flyby of the site, various ground footage [exteriors]; interior views of scientists with tracking equipment; assembly of sounding rocket; rollout of rocket, control room, start of countdown sequence.</plain>

**Keywords** HISTORICAL MATERIAL,ESRO

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100406

**Title:** Esrange: The First Campaign

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/11/1966

**Length:** 8

**Comments:** <plain>Rushes shot in November 1966 at the Kiruna tracking station in North Sweden, ESRO's first sounding rocket launch site [Esrange]. Including: a helicopter flyby of the site, various ground footage [exteriors]; interior views of scientists with tracking equipment; assembly of sounding rocket; rollout of rocket, control room, start of countdown sequence.</plain>

**Keywords:** HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100407

**Title:** Concorde Stock Shots 1976

**Type:** Selected Rushes

**Category:** Library material

**Language:** Mute

**Production Date:** 01/01/1976

**Length:** 6

**Comments:** <plain>Various footage of the Concorde supersonic plane, recorded in 1976 - including construction, take-off, landing, flight footage [exterior and interior], various national ceremonies.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100407

**Title:** Concorde Stock Shots 1976

**Type:** Selected Rushes

**Category:** Library material

**Language** Mute

**Production Date** 01/01/1976

**Length:** 6

**Comments:** <plain>Various footage of the Concorde supersonic plane, recorded in 1976 - including construction, take-off, landing, flight footage [exterior and interior], various national ceremonies.</plain>

**Keywords** HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100412

**Title:** Skylab: 4 Days

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length:** 17

**Comments:** <plain>A series of fluid behaviour experiments performed aboard the Skylab vessel in 1973, using a medium composed of soap and water.</plain>

**Keywords** MANNED SPACEFLIGHT,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100412

**Title:** Skylab: 4 Days

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length:** 17

**Comments:** <plain>A series of fluid behaviour experiments performed aboard the Skylab vessel in 1973, using a medium composed of soap and water.</plain>

**Keywords** MANNED SPACEFLIGHT,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100413

**Title:** REDU Construction

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 5

**Comments:** <plain>Ground rushes of the construction of REDU, ESRO's satellite tracking station in Belgium. Shot during the 1960s.</plain>

**Keywords:** TELECOMMUNICATIONS,HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100413

**Title:** REDU Construction

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 5

**Comments:** <plain>Ground rushes of the construction of REDU, ESRO's satellite tracking station in Belgium. Shot during the 1960s.</plain>

**Keywords:** TELECOMMUNICATIONS,HISTORICAL MATERIAL,ESRO

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100414

**Title:** Ariane LO-2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 16

**Comments:** <plain>The Ariane LO-2 launch is scheduled for May 23rd, 1980, and will carry the satellites Firewheel, Amsat, P3A and Cat into orbit. This video contains rushes of satellite assembly.</plain>

**Keywords:** HISTORICAL MATERIAL,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100414

**Title:** Ariane LO-2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 16

**Comments:** <plain>The Ariane LO-2 launch is scheduled for May 23rd, 1980, and will carry the satellites Firewheel, Amsat, P3A and Ariane into orbit. This video contains rushes of satellite assembly.</plain>

**Keywords:** HISTORICAL MATERIAL,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100415

**Title:** ESA Establishments 1997

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 10/20/1997

**Length:** 20

**Comments:** <plain>General stock shots of the various ESA establishments - ESOC [Darmstadt, Germany], ESTEC [Noordwijk, Holland], ESRIN [Frascati, Italy], HQ [Paris, France].</plain>

**Keywords:** ESTEC,ESRIN,ESOC,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100415

**Title:** ESA Establishments 1997

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 10/20/1997

**Length:** 20

**Comments:** <plain>General stock shots of the various ESA establishments - ESOC [Darmsdadt, Germany], ESTEC [Noordwick, Holland], ESRIN [Frascati, Italy], HQ [Paris, France].</plain>

**Keywords** ESTEC,ESRIN,ESOC,ESA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100416

**Title:** Ariane 501: Short Version Live Transmission.

**Type:** Original Material

**Category:** VNR

**Language** French

**Production Date** 03/01/1997

**Length:** 21

**Comments:** <plain>December 4th 1996 saw the failure of the first Arian 5 launch- the V88 mission, carrying the Cluster payload. Th video provides a retrospective montage of coverage leading up to the launch, followed by post-launch interviews with J Marie Luton, ESA directeur-general; Francois Fillon, French minister des postes, des telecommunications et de l'espace and Yvan Ylieff, president du conseil de l' ESA. </plain>

**Keywords** LAUNCHERS,CLUSTER,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100417

**Title:** Telecommunications Resource Material '97

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/22/1997

**Length:** 32

**Comments:** <plain>General resource material illustrating telecommunications. Filmed at ESOC [Darmsdadt, Germany] ESRIN [Frascati, Italy] and ESTEC [Noordwijk, Holland].</plain>

**Keywords:** ESTEC,ESRIN,ESOC,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100417

**Title:** Telecommunications Resource Material '97

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/22/1997

**Length:** 32

**Comments:** <plain>General resource material illustrating telecommunications. Filmed at ESOC [Darmsdadt, Germany] ESRIN [Frascati, Italy] and ESTEC [Noordwijk, Holland].</plain>

**Keywords:** ESTEC,ESRIN,ESOC,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100418

**Title:** ESA HQ 1997 - Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100419

**Title:** ESA HQ 1997 - Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material. </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100420

**Title:** ESA HQ 1997 - Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100422

**Title:** ESTEC '97 - Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESTEC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100423

**Title:** ESTEC '97 - Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESTEC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100424

**Title:** ESTEC '97 - Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESTEC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100425

**Title:** ESTEC '97 - Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESTEC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100426

**Title:** ESOC '97 - Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100427

**Title:** ESOC '97 - Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100428

**Title:** ESOC '97 - Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100429

**Title:** ESOC '97 - Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESOC

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100430

**Title:** ESRIN '97 - Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1997

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESRIN

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100431

**Title:** ESRIN '97 - Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESRIN

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100432

**Title:** ESRIN '97 - Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Rushes recorded in October '97 - general establishment footage and telecommunications material.</plain>

**Keywords:** ESRIN

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100433

**Title:** ESRIN '97 - Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** ESRIN

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100434

**Title:** Parabolic Flight '97 Tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/30/1997

**Length:** 34

**Comments:** <plain>Recordings of ESA's 24th parabolic flight campaign, carried out between 23/9 and 2/10 1997 near Bordeaux, France. The aircraft used was the Airbus A 300. Includes: flight preparation of experiments; demonstration of physics behind the experiment using pendulum [in Italian]; demonstration of walkway [force platform] experiment; sub floats in microgravity whilst giving commentary [in Italian]; fluid demonstration with jar of red liquid; subject floats with handkerchief [both rise and fall at same time]; catching smarties; monitoring equipment is demonstrated [in Italian]. Subjects wear ESA overalls, Merbold appears in some sho</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100435

**Title:** Parabolic Flight '97 Tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** ME only

**Production Date:** 09/30/1997

**Length:** 20

**Comments:** <plain>Recordings of ESA's 24th parabolic flight campaign, carried out between 23/9 and 2/10 1997 near Bordeaux, France. The aircraft used was the Airbus A 300. Includes: general view of aircraft cabin with subjects floating [weari ESA overalls]; monitoring equipment, taking measurements; labelled university of Pisa experiment; explanation of force platform [in Italian]; monitoring desk; flight deck; biomedical experiments; de-briefing on ground. Subjects wear ESA overalls, Merbold appears in several shots. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100436

**Title:** Parabolic Flight '97 Tape 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1997

**Length:** 34

**Comments:** <plain>Recordings of ESA's 24th parabolic flight campaign, carried out between 23/9 and 2/10 1997 near Bordeaux, France. The aircraft used was the Airbus A 300. Includes: introduction to flight [in English]; demonstration of walkway [force platform] experiment, explanation by researcher [ in English]; potential energy demonstration with pendulum; demonstration of Zarm hydrocarbon ignition experiment [in English]; demonstration of fluid behaviour experiment [in English]; demonstration of electrophoresis experiment [in English]; demonstration of 2-phase flow in porous medium experiment [in English]; demonstration of fluid mechanics experiment [in French]; Swedish Space Corporation demonstration of metal solidification experiment [in English]; explanation of blood pressure control experiment [in English]. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100437

**Title:** Parabolic Flight '97 Tape 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1997

**Length:** 32

**Comments:** <plain>Recordings of ESA's 24th parabolic flight campaign, carried out between 23/9 and 2/10 1997 near Bordeaux, France. The aircraft used was the Airbus A 300. Includes: demonstration of chemical combustion experiment [in English]; walkway [force platform] experiment ; demonstrati of aeronautical cable testing chamber; demonstration of blo flow experiment; biomedical experimentation; demonstrator of superconductor experiment all in English]; general footag of crew floating. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100440

**Title:** Parabolic Flight '97 Tape 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 09/30/1997

**Length:** 40

**Comments:** <plain>Recordings of ESA's 24th parabolic flight campaign, carried out between 23/9 and 2/10 1997 near Bordeaux, France. The aircraft used was the Airbus A 300. Includes: equipment assembly; demonstration of DLR aluminium alloy casting experiment; demonstration of force platform; variou shots of crew on runway. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100442

**Title:** Parabolic Flight '97: Edit

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 10/24/1997

**Length:** 48

**Comments:** <plain>Recordings of ESA's 24th parabolic flight campaign, carried out between 23/9 and 2/10 1997 near Bordeaux, France. The aircraft used was the Airbus A 300. This compilation of material contains footage taken from rushes tapes 1 - 5, plus shots of the aircraft taking off and landing.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100443

**Title:** Meteosat Images Inserts

**Type:** Original Material

**Category:** screen output

**Language:** Mute

**Production Date:** 04/11/1988

**Length:** 30

**Comments:** <plain>A collection of images produced by the Meteosat weather satellite. Timecode jumps throughout.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100444

**Title:** ERS-1 Rostrum Images

**Type:** Rushes

**Category:** miscellaneous

**Language:** Mute

**Production Date:** 04/01/1992

**Length:** 21

**Comments:** <plain>A collection of Rostrum camera rushes of images produced from information transmitted by Europe's remote sensing satellite ERS-1.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100448

**Title:** Gagarin Stock-Shots

**Type:** Miscellaneous

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>The Russian cosmonaut Yuri Gagarin made history : the world's first man in space on April 2nd, 1961. His one-orbit trip on board the Vostok-1 module lasted 108 minutes. Comprising telecined material from 2 film reels, this video contains the following material: [A] Flight control preparing to send Gagarin into space; ignition, Gagarin blas off; Gagarin's landing-spot, monument; Gagarin at home and at work; Titov in Vostok 2; Gagarin embraces first group spacemen; Belyaev and Leonov in space; Leonov spacewalks; Soyuz spacecraft coupled by space-walking astronauts; Soyuz rocket blasts off; Luna 17 and Lunokhod blast off; simulation of Lunokhod on moon; spacewalk [B/W 1961-1970] [B] Gagarin's return to Moscow ; Gagarin in Red Square; Gagarin with family on holiday at Sochi on the Blac Sea; Gagarin in london leaving Buckingham Palace [B/W, 1961]. </plain>

**Keywords:** MANNED SPACEFLIGHT,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100448

**Title:** Gagarin Stock-Shots

**Type:** Miscellaneous

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>The Russian cosmonaut Yuri Gagarin made history : the world's first man in space on April 2nd, 1961. His one-orbit trip on board the Vostok-1 module lasted 108 minutes. Comprising telecined material from 2 film reels, this video contains the following material: [A] Flight control preparing to send Gagarin into space; ignition, Gagarin blas off; Gagarin's landing-spot, monument; Gagarin at home and at work; Titov in Vostok 2; Gagarin embraces first group spacemen; Belyaev and Leonov in space; Leonov spacewalks; Soyuz spacecraft coupled by space-walking astronauts; Soyuz rocket blasts off; Luna 17 and Lunokhod blast off; simulation of Lunokhod on moon; spacewalk [B/W 1961-1970] [B] Gagarin's return to Moscow ; Gagarin in Red Square; Gagarin with family on holiday at Sochi on the Blac Sea; Gagarin in london leaving Buckingham Palace [B/W, 1961]. </plain>

**Keywords:** MANNED SPACEFLIGHT,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100449

**Title:** ERS Background Material

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/16/1989

**Length:** 27

**Comments:** <plain>Rushes concerned with the European Remote Sensing Satellite. Includes: various screen displays, showir ERS's coverage of the globe; breaking waves, the seaside; windmill; flowers, aquatic birds; tracking shot of sun throug overhead trees.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100449

**Title:** ERS Background Material

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/16/1989

**Length:** 27

**Comments:** <plain>Rushes concerned with the European Remote Sensing Satellite. Includes: various screen displays, showing ERS's coverage of the globe; breaking waves, the seaside; windmill; flowers, aquatic birds; tracking shot of sun through overhead trees.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100450

**Title:** ERS-: Dorking Rushes 5

**Type:** Rushes

**Category:** screen output

**Language:** Natural Sound Only

**Production Date:** 03/27/1992

**Length:** 10

**Comments:** <plain>Rushes of various screen recordings of images produced by ERS-1, ESA's primary Remote Sensing Satellite.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100451

**Title:** Earthnet: Fucino Rushes 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1987

**Length:** 18

**Comments:** <plain>Rushes taken at the control room of the ESA Earthnet ground station in Fucino.</plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100452

**Title:** Ariane 4: Kourou/Ceyenne Rushes 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>Rushes shot in French Guiana - Kourou, Ceyenne and Devil's Island. Tape contains images of: sea and various islands; forest clearing, native works on boat; river, boathouse, vegetation; market scenes.</plain>

**Keywords:** CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100453

**Title:** ERS: Tromso Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/16/1990

**Length:** 20

**Comments:** <plain>Interior rushes taken at the Tromso telemetry station in Norway. Including: flashing lights and buttons on control panel; recording equipment, operator inserts cassette; cassettes in racks; working at computer terminal; Tromso logo; various equipment banks.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100454

**Title:** Ariane 502: Teamsat

**Type:** Original Material

**Category:** miscellaneous

**Language:** Mute

**Production Date:** 11/07/1997

**Length:** 3

**Comments:** <plain>The second qualification flight of Ariane 5 was successfully launched on October 30th, 1997. This video provides real images shot from the Teamsat module of the speltra falling back towards Earth; an animation sequence is also included, showing the Maqsat and Teamsat separator and their trajectories. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100455

**Title:** Huygens/Cassini: Pre-Launch

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/15/1997

**Length:** 7

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Del rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. This video contains rushes of pre-launch preparations, as follows: launcher in final assembly building; assembly building rolled away; various control and monitoring centres, personnel; launch and flight footage.</plain>

**Keywords:** NASA GENERAL,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100457

**Title:** Huygens/Cassini: Spacecraft Flow 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/20/1997

**Length:** 56

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Del rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. This video contains footage of the campaign from February 1st to May 15th, 1997 and from May 30th to June 20th, 1997. As follows: unloading payload from plane, Cape Canaveral air station; transport by lorry; assembly; arrival launcher components; first stage integrated into assembly building; second stage mated to first; Titan rollout; erection Cassini. </plain>

**Keywords:** NASA GENERAL,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100458

**Title:** Huygens/ Cassini: Spacecraft Flow 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** ME only

**Production Date:** 07/22/1997

**Length:** 15

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Del rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. This video contains footage of the campaign from May 22nd to July 22nd, 1997. As follows: cleanroom construction of Cassini remote sensing unit; transportation Cassini propulsion unit; cleanroom footage of Cassini probe shield; Cassini aft cone installation on the probe; lifting Cassini module into stand; Cassini propulsion unit mated with antenna and instruments; Cassini moved into highbay and uncovered; Huygens probe heat shield installation; Huygens probe installation; Cassini lift and mate.</plain>

**Keywords:** NASA GENERAL,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100459

**Title:** Huygens/ Cassini: Spacecraft Flow 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/22/1997

**Length:** 66

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Del rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. This video contains footage of the campaign from August 22nd to September 22nd 1997. As follows: Cassini probe lifted to transporter; interviews; Cassini press show; bagging Cassini for transportation; transportation of Cassini hoisting of probe to top of final assembly building; lifting of Cassini probe; Cassini front shield assembly; Cassini probe rework; Huygens probe construction; Cassini hoist, installation of protective bag and hard cover; mating of Titar and Cassini; Cassini being uncovered in cleanroom after Huygens repairs; payload fairing operations.</plain>

**Keywords:** NASA GENERAL,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100461

**Title:** XMM - Construction Footage

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 11

**Comments:** <plain>XMM, the European X-ray Multimirror telescope, is due to be launched in 1999. This video contains general cleanroom footage of the construction of this astronomical satellite at Daimler-Benz Aerospace.</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100462

**Title:** Cassini Pre-Launch Conference

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 10/11/1997

**Length:** 53

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Delta II rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. This video covers the mission pre-launch press conference held on October 11th, 1997.</plain>

**Keywords:** NASA GENERAL,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100463

**Title:** Huygens/ Cassini: Spacecraft Flow 4

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/22/1997

**Length:** 48

**Comments:** <plain>The joint ESA/NASA Huygens-Cassini mission, launched on October 15th 1997 from Canaveral using a Delta II rocket, will carry the ESA probe towards Saturn's intriguing moon Titan. This video contains footage of the pre-launch mission preparations from March 7th to May 22nd, 1997. Including: Cassini propulsion unit moved to work stand; Cassini propulsion module; Huygens offload [from plane]; Huygens probe in cleanroom; Cassini spacecraft arrival [by plane] and offload; arrival of Cassini RTG [radioactive isotope thermoelectric generator]; arrival and offload of Cassini spacecraft [lorry]; Cassini transportation cover being removed; uncrating of Cassini antenna, installation; mating of Cassini RTG; Cassini activities remote sensing unit platform.</plain>

**Keywords:** NASA GENERAL,HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100466

**Title:** Ariane 502 Index Pre-Edit

**Type:** Miscellaneous

**Category:** miscellaneous

**Language** French and English

**Production Date** 01/10/1997

**Length:** 19

**Comments:** <plain></plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100467

**Title:** ESDAC Inauguration

**Type:** Original Material

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 7

**Comments:** <plain>ESDAC, the European Data Analysis Centre, was established in Darmsdadt, Germany on September 8th 1967. It is responsible for the collection, reduction and distribution of scientific data received from spacecraft and ground observatories. This film shows the inauguration itself, plus some of the facilities available at ESDAC. [NOTE: this site was later to become that of ESOC, the European Space Operations Centre]. </plain>

**Keywords** HISTORICAL MATERIAL,ESOC

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100467

**Title:** ESDAC Inauguration

**Type:** Original Material

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 7

**Comments:** <plain>ESDAC, the European Data Analysis Centre, was established in Darmsdadt, Germany on September 8th 1967. It is responsible for the collection, reduction and distribution of scientific data received from spacecraft and ground observatories. This film shows the inauguration itself, plus some of the facilities available at ESDAC. [NOTE: this site was later to become that of ESOC, the European Space Operations Centre]. </plain>

**Keywords:** HISTORICAL MATERIAL,ESOC

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100469

**Title:** OTS Explosion

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>ESA's experimental telecommunications satellite, the Orbital Test Satellite [OTS], was launched for the first time on October 14th, 1977 from Cape Canaveral by an American Thor Delta launcher. This video contains footage of the resulting explosion.</plain>

**Keywords:** OTS,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100469

**Title:** OTS Explosion

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>ESA's experimental telecommunications satellite, the Orbital Test Satellite [OTS], was launched for the first time c October 14th, 1977 from Cape Canaveral by an American Thor Delta launcher. This video contains footage of the resulting explosion.</plain>

**Keywords:** OTS,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100470

**Title:** KSC Hassan/Spenalski Interviews

**Type:** Rushes

**Category:** Interviews

**Language:** English

**Production Date:** 00/00/00

**Length:** 14

**Comments:** <plain>Interview with Hamid Hassan, ESA project manager for the Huygens mission, and Dr. Richard Spenalski of the NASA Cassini project. </plain>

**Keywords:** HUYGENS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100472

**Title:** Brevard Planetarium Material

**Type:** Miscellaneous

**Category:** Library material

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Recordings of observations from the Brevard Community College Planetarium. Containing images of Saturn, Jupiter and the moon's surface.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100473

**Title:** Telecom Constellations Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 11/14/1997

**Length:** 4

**Comments:** <plain>A collection of 3D graphics which show future configurations and ground networks for telecommunication satellites. </plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100473

**Title:** Telecom Constellations Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 11/14/1997

**Length:** 4

**Comments:** <plain>A collection of 3D graphics which show future configurations and ground networks for telecommunication satellites. </plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100473

**Title:** Telecom Constellations Graphics - Old

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 11/14/1997

**Length:** 4

**Comments:** <plain>A collection of 3D graphics which show future configurations and ground networks for telecommunication satellites. This cassette is the original, and therefore outdated, version. </plain>

**Keywords:** TELECOMMUNICATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100474

**Title:** Ariane 502 Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 3

**Comments:** <plain>Video rushes from the 502 launch campaign - launcher on launchpad, rollout lorry still in place. </plain>

**Keywords:** ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100474

**Title:** Ariane 502 Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 3

**Comments:** <plain>Video rushes from the 502 launch campaign - launcher on launchpad, rollout lorry still in place. </plain>

**Keywords:** ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100474

**Title:** Ariane 502 Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 3

**Comments:** <plain>Video rushes from the 502 launch campaign - launcher on launchpad, rollout lorry still in place. </plain>

**Keywords:** ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100475

**Title:** Ariane 502 Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/29/1997

**Length:** 5

**Comments:** <plain>Video rushes of the Ariane 502 campaign - Ariane 5 on its launchpad at sunrise. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100475

**Title:** Ariane 502 Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/29/1997

**Length:** 5

**Comments:** <plain>Video rushes of the Ariane 502 campaign - Ariane 5 on its launchpad at sunrise. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100475

**Title:** Ariane 502 Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/29/1997

**Length:** 5

**Comments:** <plain>Video rushes of the Ariane 502 campaign - Ariane 5 on its launchpad at sunrise. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100476

**Title:** Ariane 502 Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 8

**Comments:** <plain>Video rushes from the Ariane 502 campaign - various shots of launcher at ZL3 launch zone. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100476

**Title:** Ariane 502 Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 8

**Comments:** <plain>Video rushes from the Ariane 502 campaign - various shots of launcher at ZL3 launch zone.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100476

**Title:** Ariane 502 Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 8

**Comments:** <plain>Video rushes from the Ariane 502 campaign - various shots of launcher at ZL3 launch zone.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100477

**Title:** Ariane 502 Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 12

**Comments:** <plain>Video rushes from the Ariane 502 launch campaign general [ground] views of launcher rollout from the final assembly building to the launchpad.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100477

**Title:** Ariane 502 Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 12

**Comments:** <plain>Video rushes from the Ariane 502 launch campaign general [ground] views of launcher rollout from the final assembly building to the launchpad.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100477

**Title:** Ariane 502 Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/29/1997

**Length:** 12

**Comments:** <plain>Video rushes from the Ariane 502 launch campaign general [ground] views of launcher rollout from the final assembly building to the launchpad.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100478

**Title:** Ariane 502 Launch Replays

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 10

**Comments:** <plain>The second qualification flight of Europe's Ariane 5 launcher was successfully performed on October 30th, 1991. This video contains footage of the launch, first flight stage and separation, collected from different sources - both ground and helicopter recordings are included. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100478

**Title:** Ariane 502 Launch Replays

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 10

**Comments:** <plain>The second qualification flight of Europe's Ariane 5 launcher was successfully performed on October 30th, 1997. This video contains footage of the launch, first flight stage and separation, collected from different sources - both ground and helicopter recordings are included. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100478

**Title:** Ariane 502 Launch Replays

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 10

**Comments:** <plain>The second qualification flight of Europe's Ariane 5 launcher was successfully performed on October 30th, 1997. This video contains footage of the launch, first flight stage and separation, collected from different sources - both ground and helicopter recordings are included. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100478

**Title:** Ariane 502 Launch Replays

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 10

**Comments:** <plain>The second qualification flight of Europe's Ariane 5 launcher was successfully performed on October 30th, 1997. This video contains footage of the launch, first flight stage and separation, collected from different sources - both ground and helicopter recordings are included. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100481

**Title:** Ariane 502 Rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 9

**Comments:** <plain>Video recordings from the Ariane 502 launcher campaign - reaction of crowds [at Toucan observation point] to launch [viewed on screen].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100481

**Title:** Ariane 502 Rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 9

**Comments:** <plain>Video recordings from the Ariane 502 launcher campaign - reaction of crowds [at Toucan observation point to launch [viewed on screen].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100481

**Title:** Ariane 502 Rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 9

**Comments:** <plain>Video recordings from the Ariane 502 launcher campaign - reaction of crowds [at Toucan observation point to launch [viewed on screen].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100482

**Title:** Ariane 502 Rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 9

**Comments:** <plain>Video recordings of the Ariane 502 launch campaign people watching [and photographing] launch from Toucan observation site, reactions and applause, various shots of watches flight on television screen.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100482

**Title:** Ariane 502 Rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 9

**Comments:** <plain>Video recordings of the Ariane 502 launch campaign showing people watching [and photographing] launch from Toucan observation site, reactions and applause, various shots of Ariane 5 watching flight on television screen.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100483

**Title:** Ariane 502 ZL3 Night

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/28/1997

**Length:** 13

**Comments:** <plain>A video recording of the Ariane 502 launcher at the ZL3 launch zone, taken by night.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100483

**Title:** Ariane 502 ZL3 Night

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/28/1997

**Length:** 12

**Comments:** <plain>A video recording of the Ariane 502 launcher at the ZL3 launch zone, taken by night.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100483

**Title:** Ariane 502 ZL3 Night

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/28/1997

**Length:** 13

**Comments:** <plain>A video recording of the Ariane 502 launcher at the ZL3 launch zone, taken by night.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100485

**Title:** Ariane 502 Rollout

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/30/1997

**Length:** 64

**Comments:** <plain>Helicopter footage of the Ariane 502 launcher rollout in October 1997. The video also contains air-ground footage of the launch complex and surrounding area.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100485

**Title:** Ariane 502 Rollout

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 64

**Comments:** <plain>Helicopter footage of the Ariane 502 launcher rollout in October 1997. The video also contains air-ground footage of the launch complex and surrounding area.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100485

**Title:** Ariane 502 Rollout

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/30/1997

**Length:** 64

**Comments:** <plain>Helicopter footage of the Ariane 502 launcher rollout in October 1997. The video also contains air-ground footage of the launch complex and surrounding area.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100494

**Title:** ERS: El Nino 3D Animations

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 12/12/1997

**Length:** 1

**Comments:** <plain>This video contains European Remote Sensing satellite data of the El Nino phenomenon and associated forest fires in South East Asia, plus global animation sequences utilising recordings from the radar altimeter and along-track-scanning-radiometer instruments. 1. About El Nino The "El Nino-Southern Oscillation" (ENSO) is a periodical climate variability. It can cause floods and drought and has impact on the ecosystem and on economic activities like agriculture and fishing in the Pacific region. ENSO is of worldwide concern because it affects many countries (Southern America, Australia, India, Africa, etc.) and may have an impact on the climate of the northern hemisphere. ENSO events occurred during the past centuries and there is also evidence - over the past thousand years. In the years 1982-1983 a stronger than normal event occurred; successively in 1991 an anomalously long period started. Climatic indicators, early in 1997, detected the development of another event. ENSO is a coupled ocean (El Nino) - atmosphere (Southern Oscillations) phenomenon although the two components are not always linked. It can be detected among others, as a significant warming of the sea surface temperature over the tropical Eastern Pacific. A topical concern about ENSO is the investigation about its variation in intensity and frequency as related to global climate change (e.g. global warming) as well as its influence on climate change. The understanding of ENSO has increased since - the late 1980s - it became possible to reproduce some features associated to such events, with the advent of coupled atmosphere-ocean Global Circulation Models (GCMs) for weather prediction. These models require long-term data sets of key parameters like sea-surface temperature and mean sea level that only satellites like ERS can provide. 2. The Role of the Sea Level The 'normal' state of the Pacific Ocean is such that the sea level on the western side is higher than on the eastern side. This difference is namely due to the constantly blowing Trade Winds from east to west, which causes the water to pile up on the western side of the ocean. Also due to the Trade Winds, the surface water on the eastern side is constantly transported westward, and replaced by cold nutritious water that comes from deeper layers. This vertical movement is called upwelling. So, normally, cold and nutritious water prevails along the South American coast, while on the western side the surface water is warm. The warm water favors evaporation and rainfall on Australia and South-East Asia which allows productive farming. During an El Niño event, the Trade Winds relax and become weak (they may even reverse). This causes the warm surface waters to flow back eastward causing the sea level to drop on the western side and rise on the eastern side by up to 30 centimeters. Consequently, the upwelling of cold water on the eastern side vanishes and the nutrient-rich water is replaced by warm nutrient-poor water. The fish stock migrates to higher latitudes or dies, impacting the ones that feed on fish:

humans (economical disruption, unemployment, pauperisation), pelicans (death), etc. Moreover, the evaporation and rainfall patterns are displaced to the east side of the Pacific Ocean, producing drastic floods and mud slides in the West coast of South-America and drought in Australia and South-East Asia.

3. ERS Radar Altimeter Measurements of the Sea Level Anomaly The data used to make these graphics sequences is used by scientists worldwide to develop our understanding of the physical processes, in the ocean and atmosphere, involved in the El Niño event. Two sources of data were used: ‡ Global, monthly measurements of the sea-level anomaly over the period April 1995 to October 1997, at medium spatial resolution. ‡ 132 weekly observations of the same parameter over the tropical Pacific region at one degree spatial resolution (110 km at the equator), over the same period. The sea-level anomaly is the deviation of the mean sea level at a given location from the multi-year average. For both datasets, the original data sets in 2-D provided to the scientists and a specially elaborated 3-D graphics sequence are included on this video tape. For the 3-D graphics, the colour scale originally ranging from blue to red was replaced by a scale of only blue tones to avoid confusion with sea-surface temperature measurements (see below). Instead, a higher-than-normal sea level is represented by an exaggerated "mountain" of the ocean surface, and a lower-than-normal sea level by a corresponding hollow. However, this visualisation gives a more subtle result than the colour scale.

4. ERS-2 Along-Track Scanning Radiometer Measurement Of Sea-Surface Temperature El Niño is very strong in 1997. The ERS-2 Along-Track Scanning Radiometer ATSR records the changes in sea-surface temperature with great accuracy and the data shown here covering the period between July 1997 and October 1997 highlights this strength. In July 97 the water along the South American Coast is much colder (in blue in the image) than in the summer and autumn 1997.

5. ERS-2 Along-Track Scanning Radiometer Measurements Of South-East Asia Forest Fires The 1997 El Niño event may be responsible for drought and associated fires in Indonesia and for the Pauline cyclone in Mexico. The forest fires over Indonesia were monitored by the ATSR during the period August-November 1997 by using infrared (heat) radiation measurements in the 3.7 micron channel to establish "hot spots", shown in red colour. The hot spot distribution over time and space is relevant to the exceptional fire activity occurred this summer and autumn. The two graphics sequences are made from 84 ATSR observations. The original data set and a specially elaborated more visual sequence are complemented by two ATSR scenes representative for the 84 scenes from which the hot spot distributions were elaborated.

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100496

**Title:** ERS-2 Construction 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/06/1994

**Length:** 34

**Comments:** <plain>General cleanroom footage, recorded at ESTEC, of the construction of ESA's European Remote Sensing satellit ERS-2. Images include opening of the Synthetic Aperture Radar (SAR).</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100497

**Title:** ERS-2 Construction 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/06/1994

**Length:** 34

**Comments:** <plain>General cleanroom footage, recorded at ESTEC, of the construction of ESA's European Remote Sensing satellit ERS-2. Images include opening of the Synthetic Aperture Radar (SAR), and close-ups of some of the satellite's components.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100498

**Title:** ERS-2 Construction 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/07/1994

**Length:** 11

**Comments:** <plain>General cleanroom footage, recorded at ESTEC, of the construction of ESA's European Remote Sensing satellit ERS-2. Images include opening of the Synthetic Aperture Radar (SAR), and close-ups of the pyrotechnical equipment.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100499

**Title:** ERS-2 Construction 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/18/1994

**Length:** 31

**Comments:** <plain>General cleanroom footage, recorded at ESTEC, of the construction of ESA's European Remote Sensing satellit ERS-2.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100499

**Title:** ERS-2 Construction 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/18/1994

**Length:** 31

**Comments:** <plain>General cleanroom footage, recorded at ESTEC, of the construction of ESA's European Remote Sensing satellit ERS-2.</plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100500

**Title:** ERS-1 Altimeter Animations

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 04/02/1993

**Length:** 8

**Comments:** <plain>A series of fly-through animations composed ERS-1 radar altimeter topography data.Contains Antarctic and Atlantic region animations.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100501

**Title:** ERS-1 3D Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 06/04/1992

**Length:** 15

**Comments:** <plain>Graphics to show the position and operation of vari instruments aboard the ERS-1 satellite.</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100503

**Title:** El Nino and Forest Fire Graphics

**Type:** Original Material

**Category:** Documentary, technical

**Language** Mute

**Production Date** 12/01/1997

**Length** 4

**Comments** <plain>his video contains European Remote Sensing satellite data of the El Nino phenomenon, plus global animation sequences utilising recordings from the radar altimeter and along-track-scanning-radiometer instruments. 1. About El Nino The "El Nino-Southern Oscillation" (ENSO) is a periodical climate variability. It can cause floods and drought and has impact on the ecosystem and on economic activities like agriculture and fishing in the Pacific region. ENSO is of worldwide concern because it affects many countries (Southern America, Australia, India, Africa, etc.) and may have an impact on the climate of the northern hemisphere. ENSO events occurred during the past centuries and there is also evidence - over the past thousand years. In the years 1982-1983 a stronger than normal event occurred; successively in 1991 an anomalously long period started. Climatic indicators, early in 1997, detected the development of another event. ENSO is a coupled ocean (El Nino) - atmosphere (Southern Oscillations) phenomenon although the two components are not always linked. It can be detected among others, as a significant warming of the sea surface temperature over the tropical Eastern Pacific. A topical concern about ENSO is the investigation about its variation in intensity and frequency as related to global climate change (e.g. global warming) as well as its influence on climate change. The understanding of ENSO has increased since - the late 1980s - it became possible to reproduce some features associated to such events, with the advent of coupled atmosphere-ocean Global Circulation Models (GCMs) for weather prediction. These models require long-term data sets of key parameters like sea-surface temperature and mean sea level that only satellites like ERS can provide. 2. The Role of the Sea Level The 'normal' state of the Pacific Ocean is such that the sea level on the western side is higher than on the eastern side. This difference is namely due to the constantly blowing Trade Winds from east to west, which causes the water to pile up on the western side of the ocean. Also due to the Trade Winds, the surface water on the eastern side is constantly transported westward, and replaced by cold nutritious water that comes from deeper layers. This vertical movement is called upwelling. So, normally, cold and nutritious water prevails along the South American coast, while on the western side the surface water is warm. The warm water favors evaporation and rainfall on Australia and South-East Asia which allows productive farming. During an El Niño event, the Trade Winds relax and become weak (they may even reverse). This causes the warm surface waters to flow back eastward causing the sea level to drop on the western side and rise on the eastern side by up to 30 centimeters. Consequently, the upwelling of cold water on the eastern side vanishes and the nutrient-rich water is replaced by warm nutrient-poor water. The fish stock migrates to higher latitudes or dies, impacting the ones that feed on fish: humans (economical disruption, unemployment,

pauperisation), pelicans (death), etc. Moreover, the evaporation and rainfall patterns are displaced to the east side of the Pacific Ocean, producing drastic floods and mud slides in the West coast of South-America and drought in Australia and South-East Asia.

3. ERS Radar Altimeter Measurements of the Sea Level Anomaly The data used to make these graphics sequences is used by scientists worldwide to develop our understanding of the physical processes, in the ocean and atmosphere, involved in the El Niño event. Two sources of data were used: ‡ Global, monthly measurements of the sea-level anomaly over the period April 1995 to October 1997, at medium spatial resolution. ‡ 132 weekly observations of the same parameter over the tropical Pacific region at one degree spatial resolution (110 km at the equator), over the same period. The sea-level anomaly is the deviation of the mean sea level at a given location from the multi-year average. For both datasets, the original data sets in 2-D provided to the scientists and a specially elaborated 3-D graphics sequences are included on this video tape. For the 3-D graphics, the colour scale originally ranging from blue to red was replaced by a scale of only blue tones to avoid any confusion with sea surface temperature measurements (see below). Instead, ‡ higher-than-normal sea level is represented by an exaggerated "mountain" of the ocean surface, and a lower-than-normal sea level by a corresponding hollow. However this visualisation gives a more subtle result than a colour scale.

4. ERS-2 Along-Track Scanning Radiometer Measurement Of Sea-Surface Temperature El Niño is very strong in 1997. The ERS-2 Along-Track Scanning Radiometer ATSR records the changes in sea-surface temperature with great accuracy and the data shown here covering the period between July 1997 and October 1997 highlights this strength. In July 97 the water along the South American Coast is much colder (in blue in the image) than in the summer and autumn 1997.

5. ERS-2 Along-Track Scanning Radiometer Measurements Of South-East Asia Forest Fires The 1997 El Niño event may be responsible for drought and associated fires in Indonesia and for the Pauline cyclone in Mexico. The forest fires over Indonesia were monitored by the ATSR during the period August-November 1997 by using infrared (heat) radiation measurements in the 3.7 micron channel to establish "hot spots", shown in red colour. The hot spot distribution over time and space is relevant to the exceptional fire activity occurred this summer and autumn. The two graphics sequences are made from 84 ATSR observations. The original data set and a specially elaborated more visual sequence are complemented by two ATSR scenes representative for the 84 scenes from which the hot spot distributions were elaborated.

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100503

**Title:** El Nino and Forest Fire Graphics

**Type:** Original Material

**Category:** Documentary, technical

**Language** Mute

**Production Date** 12/01/1997

**Length** 4

**Comments** <plain>his video contains European Remote Sensing satellite data of the El Nino phenomenon, plus global animation sequences utilising recordings from the radar altimeter and along-track-scanning-radiometer instruments. 1. About El Nino The "El Nino-Southern Oscillation" (ENSO) is a periodical climate variability. It can cause floods and drought and has impact on the ecosystem and on economic activities like agriculture and fishing in the Pacific region. ENSO is of worldwide concern because it affects many countries (Southern America, Australia, India, Africa, etc.) and may have an impact on the climate of the northern hemisphere. ENSO events occurred during the past centuries and there is also evidence - over the past thousand years. In the years 1982-1983 a stronger than normal event occurred; successively in 1991 an anomalously long period started. Climatic indicators, early in 1997, detected the development of another event. ENSO is a coupled ocean (El Nino) - atmosphere (Southern Oscillations) phenomenon although the two components are not always linked. It can be detected among others, as a significant warming of the sea surface temperature over the tropical Eastern Pacific. A topical concern about ENSO is the investigation about its variation in intensity and frequency as related to global climate change (e.g. global warming) as well as its influence on climate change. The understanding of ENSO has increased since - the late 1980s - it became possible to reproduce some features associated to such events, with the advent of coupled atmosphere-ocean Global Circulation Models (GCMs) for weather prediction. These models require long-term data sets of key parameters like sea-surface temperature and mean sea level that only satellites like ERS can provide. 2. The Role of the Sea Level The 'normal' state of the Pacific Ocean is such that the sea level on the western side is higher than on the eastern side. This difference is namely due to the constantly blowing Trade Winds from east to west, which causes the water to pile up on the western side of the ocean. Also due to the Trade Winds, the surface water on the eastern side is constantly transported westward, and replaced by cold nutritious water that comes from deeper layers. This vertical movement is called upwelling. So, normally, cold and nutritious water prevails along the South American coast, while on the western side the surface water is warm. The warm water favors evaporation and rainfall on Australia and South-East Asia which allows productive farming. During an El Niño event, the Trade Winds relax and become weak (they may even reverse). This causes the warm surface waters to flow back eastward causing the sea level to drop on the western side and rise on the eastern side by up to 30 centimeters. Consequently, the upwelling of cold water on the eastern side vanishes and the nutrient-rich water is replaced by warm nutrient-poor water. The fish stock migrates to higher latitudes or dies, impacting the ones that feed on fish: humans (economical disruption, unemployment,



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**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100503

**Title:** El Nino and Forest Fire Graphics

**Type:** Original Material

**Category:** Documentary, technical

**Language** Mute

**Production Date** 12/01/1997

**Length** 4

**Comments** <plain>his video contains European Remote Sensing satellite data of the El Nino phenomenon, plus global animation sequences utilising recordings from the radar altimeter and along-track-scanning-radiometer instruments. 1. About El Nino The "El Nino-Southern Oscillation" (ENSO) is a periodical climate variability. It can cause floods and drought and has impact on the ecosystem and on economic activities like agriculture and fishing in the Pacific region. ENSO is of worldwide concern because it affects many countries (Southern America, Australia, India, Africa, etc.) and may have an impact on the climate of the northern hemisphere. ENSO events occurred during the past centuries and there is also evidence - over the past thousand years. In the years 1982-1983 a stronger than normal event occurred; successively in 1991 an anomalously long period started. Climatic indicators, early in 1997, detected the development of another event. ENSO is a coupled ocean (El Nino) - atmosphere (Southern Oscillations) phenomenon although the two components are not always linked. It can be detected among others, as a significant warming of the sea surface temperature over the tropical Eastern Pacific. A topical concern about ENSO is the investigation about its variation in intensity and frequency as related to global climate change (e.g. global warming) as well as its influence on climate change. The understanding of ENSO has increased since - the late 1980s - it became possible to reproduce some features associated to such events, with the advent of coupled atmosphere-ocean Global Circulation Models (GCMs) for weather prediction. These models require long-term data sets of key parameters like sea-surface temperature and mean sea level that only satellites like ERS can provide. 2. The Role of the Sea Level The 'normal' state of the Pacific Ocean is such that the sea level on the western side is higher than on the eastern side. This difference is namely due to the constantly blowing Trade Winds from east to west, which causes the water to pile up on the western side of the ocean. Also due to the Trade Winds, the surface water on the eastern side is constantly transported westward, and replaced by cold nutritious water that comes from deeper layers. This vertical movement is called upwelling. So, normally, cold and nutritious water prevails along the South American coast, while on the western side the surface water is warm. The warm water favors evaporation and rainfall on Australia and South-East Asia which allows productive farming. During an El Niño event, the Trade Winds relax and become weak (they may even reverse). This causes the warm surface waters to flow back eastward causing the sea level to drop on the western side and rise on the eastern side by up to 30 centimeters. Consequently, the upwelling of cold water on the eastern side vanishes and the nutrient-rich water is replaced by warm nutrient-poor water. The fish stock migrates to higher latitudes or dies, impacting the ones that feed on fish: humans (economical disruption, unemployment,

pauperisation), pelicans (death), etc. Moreover, the evaporation and rainfall patterns are displaced to the east side of the Pacific Ocean, producing drastic floods and mud slides in the West coast of South-America and drought in Australia and South-East Asia.

3. ERS Radar Altimeter Measurements of the Sea Level Anomaly The data used to make these graphics sequences is used by scientists worldwide to develop our understanding of the physical processes, in the ocean and atmosphere, involved in the El Niño event. Two sources of data were used: ‡ Global, monthly measurements of the sea-level anomaly over the period April 1995 to October 1997, at medium spatial resolution. ‡ 132 weekly observations of the same parameter over the tropical Pacific region at one degree spatial resolution (110 km at the equator), over the same period. The sea-level anomaly is the deviation of the mean sea level at a given location from the multi-year average. For both datasets, the original data sets in 2-D provided to the scientists and a specially elaborated 3-D graphics sequences are included on this video tape. For the 3-D graphics, the colour scale originally ranging from blue to red was replaced by a scale of only blue tones to avoid any confusion with sea surface temperature measurements (see below). Instead, ‡ higher-than-normal sea level is represented by an exaggerated "mountain" of the ocean surface, and a lower-than-normal sea level by a corresponding hollow. However this visualisation gives a more subtle result than a colour scale.

4. ERS-2 Along-Track Scanning Radiometer Measurement Of Sea-Surface Temperature El Niño is very strong in 1997. The ERS-2 Along-Track Scanning Radiometer ATSR records the changes in sea-surface temperature with great accuracy and the data shown here covering the period between July 1997 and October 1997 highlights this strength. In July 97 the water along the South American Coast is much colder (in blue in the image) than in the summer and autumn 1997.

5. ERS-2 Along-Track Scanning Radiometer Measurements Of South-East Asia Forest Fires The 1997 El Niño event may be responsible for drought and associated fires in Indonesia and for the Pauline cyclone in Mexico. The forest fires over Indonesia were monitored by the ATSR during the period August-November 1997 by using infrared (heat) radiation measurements in the 3.7 micron channel to establish "hot spots", shown in red colour. The hot spot distribution over time and space is relevant to the exceptional fire activity occurred this summer and autumn. The two graphics sequences are made from 84 ATSR observations. The original data set and a specially elaborated more visual sequence are complemented by two ATSR scenes representative for the 84 scenes from which the hot spot distributions were elaborated.

**Keywords** ERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100504

**Title:** ERS-1 Cal/Val Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 20

**Comments:** <plain>Original graphics used for the production 'ERS-1 Calibration and Validation', production no. 000110. Note T/C jump....</plain>

**Keywords:** REMOTE SENSING,ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100505

**Title:** ERS-1 tape 1 [Toulouse]

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/21/1989

**Length:** 20

**Comments:** <plain>See shotlist for details </plain>

**Keywords:** ERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100508

**Title:** ESA Video Footage

**Type:** Miscellaneous

**Category:** miscellaneous

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100509

**Title:** Ariane 502: Post-Launch Party 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/30/1997

**Length:** 25

**Comments:** <plain>Coverage of the party at Kourou in French Guiana after the successful launch of Ariane 502 on November 30, 1997. Starts with speech by ESA's Director General, Antonio Rodota.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100510

**Title:** Ariane 502: Post-Launch Party 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/30/1997

**Length:** 21

**Comments:** <plain>Coverage of the party at Kourou in French Guiana after the successful launch of Ariane 502 on November 30, 1997.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100514

**Title:** Ariane 502 - Launch and Spectators

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 11/07/1997

**Length:** 3247

**Comments:** <plain>Originally shot on film, this video contains images related to the successful launch of Ariane 502 on October 30th, 1997. Including the launch itself, spectators, satellite tracking dish, launcher rollout, launcher on launchpad, launcher in final assembly building, CSG entrance with military personnel. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100515

**Title:** Ariane 502: Launch Footage

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 9

**Comments:** <plain>A collection of footage of the launch of Ariane 502 c October 30th, 1997.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100516

**Title:** Ariane 501: Manufacture Compilation Tape 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 08/01/1997

**Length:** 0

**Comments:** <plain>A compilation of images which illustrate the manufacture, at various locations within Europe, of the Ariane 501 launcher components. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100517

**Title:** Lancement compilation

**Type:** Miscellaneous

**Category:**

**Language:**

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100518

**Title:** STS-79 [EM 95] Rough Cut

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1995

**Length:** 62

**Comments:** <plain>NASA's STS-79 mission involved the docking of the shuttle with the Mir space station. It occurred during Thomas Reiter's stay onboard Mir, the Euromir '95 mission. This film contains footage of the main stages of the mission - launch, docking, undocking and landing of NASA's space shuttle.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100524

**Title:** DLR Euromir '95 Tape 23

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/30/1995

**Length:** 32

**Comments:** <plain>The Euromir '95 mission, which involved the transfer of ESA astronaut Thomas Reiter to the Russian space station Mir, lasted from 3rd September 1995 to 29th February 1996. This video, recorded on the 30th November 1995, contains footage of Mir crew television interviews, judging pictures in the 'art in space' competition, general views of the inside of Mir and a demonstration [by Reiter] of equipment to measure contamination levels. The image quality is fragmented and somewhat poor.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100525

**Title:** DLR Euromir '95 Tape 24

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/02/1995

**Length:** 37

**Comments:** <plain>The Euromir '95 mission, which involved the transfer of ESA astronaut Thomas Reiter to the Russian space station Mir, lasted from 3rd September 1995 to 29th February 1996. This film contains various footage taken onboard the Mir station during 2nd and 3rd November 1995.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100526

**Title:** DLR Euromir '95 Tape 16

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/31/1995

**Length:** 25

**Comments:** <plain>The Euromir '95 mission involved the transfer of ESA astronaut Thomas Reiter to the Russian space station Mir, lasted from 3rd September 1995 to 29th February 1996. This tape contains footage recorded onboard the Mir space station. Image clarity is poor, and is in stop-frame format. The following footage is included - Reiter on exercise bike, monitor shows error codes and curves; haemophot cuvettes; glass cups of Russian experiment.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100527

**Title:** DLR Euromir '95 Tape 22

**Type:** Original Material

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/29/1995

**Length:** 60

**Comments:** <plain>The Euromir '95 mission, which involved the transfer of ESA astronaut Thomas Reiter to the Russian space station Mir, lasted from 3rd September 1995 to 29th February 1996. Image clarity is poor, and in stop-frame format; timecode jumps exist. Footage includes a crew conference with Russian schoolchildren [demonstrating food] and general onboard footage.</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100528

**Title:** DLR Euromir '95 Tape 21

**Type:** Original Material

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/17/1995

**Length:** 65

**Comments:** <plain>The Euromir '95 mission, which involved the transfer of ESA astronaut Thomas Reiter to the Russian space station Mir, lasted from 3rd September 1995 to 29th February 1996. Recorded onboard the station during 17th/18th November 1995, this video contains a crew conference [NASA, ESA and RKA astronauts], footage of the shuttle taken from Mir, mission control centre, Mir from shuttle. Timecode jump exists from 03:53:46:00 - 05:41:19:00. Image clarity poor.  
</plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100530

**Title:** COF/ Ulf Merbold Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/14/1998

**Length:** 30

**Comments:** <plain>External and internal footage of the Columbus Orbital Facility [COF] mock-up at ESTEC in the Netherlands. The model is demonstrated by ESA astronaut Ulf Merbold and Bernard Clymans of the Manned Spaceflight Directorate.  
</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100531

**Title:** Ulysses Graphics

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 01/28/1998

**Length** 11

**Comments** <plain>The joint ESA/NASA mission Ulysses was launched by the American shuttle Discovery on October 6th, 1990 (STS-41). This video contains a collection of graphics to da index concerning Ulysses and its mission to explore first the south, and then the north pole of the sun. </plain>

**Keywords** ULYSSES,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100535

**Title:** Parabolic Flight Campaign '94 / 1

**Type:** Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 07/01/1994

**Length** 25

**Comments** <plain>General pre-flight rushes from the parabolic flight [IL 76] campaign of July 1994. Recorded over Berlin, this campaign was carried out in preparation for the Euromir mission. [CH2 natural sound in at 00:08:42:00]. Including: people in hangar, plane towed on runway, equipment loaded onto plane, general interior views of plane, pre-flight briefing [in English], descriptions of various experiments by scientists.</plain>

**Keywords** PARABOLIC FLIGHTS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100537

**Title:** Parabolic Flight Campaign '94 / 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1994

**Length:** 21

**Comments:** <plain>General pre-flight rushes from the parabolic flight [IL 76] campaign of July 1994. Recorded over Berlin, this campaign was carried out in preparation for the Euromir mission. Footage includes: pre-flight experiment briefing [in English], personnel enter plane, assembling experiments, parachute briefing [subject demonstrates], setting-up and testing of various biomedical experiments including video oculography experiment.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100538

**Title:** Parabolic Flight Campaign '94 / 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1994

**Length:** 15

**Comments:** <plain>General pre-flight rushes from the parabolic flight [IL 76] campaign of July 1994. Recorded over Berlin, this campaign was carried out in preparation for the Euromir mission. [sound CH 1 and 2 in at 00:01:30:00]. Footage includes: setting up of video oculography experiment, testin and calibration; crew in boiler suits with ESA logo, putting o parachutes; crew sit on crash-mats in hold of plane; sensc fitted to subject; oculography subject in chair; physiological testing - subject lifts weight; crew members floating in microgravity; video oculography experiment.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100539

**Title:** Parabolic Flight Campaign '94 / 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1994

**Length:** 25

**Comments:** <plain>General pre-flight rushes from the parabolic flight [IL 76] campaign of July 1994. Recorded over Berlin, this campaign was carried out in preparation for the Euromir mission. Footage [in-flight] includes: blue-suited personnel set up combustion [??] experiments; laptop computers attached to monitoring equipment; Thomas Reiter floats into seat-type apparatus which seems to be some sort of weight device; experimenter with combustion-type apparatus is ill in a paper bag; floating subject attempts to get into sensor-suit; subject wearing respiratory device and goggles is covered with a black cloth; subject in sensor-suit; general view of plane hold containing various experiments, man wears headphones at control panel in f/g; cs eye on video oculography monitor; Reiter assembles his apparatus; subject with wireless sensors attached to his body moves arms up and down; pilots in cockpit; gvs cockpit [dials etc, map].</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100540

**Title:** Parabolic Flight Campaign '94 / 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1994

**Length:** 37

**Comments:** <plain>General pre-flight rushes from the parabolic flight [IL 76] campaign of July 1994. Recorded over Berlin, this campaign was carried out in preparation for the Euromir mission. Various footage of experimentation, including: parabolic flight crew in blue suits; numerous shots of Reiter calibration of Reiter's chair [weight measurement?] experiment; experimental chair attached to monitoring equipment; various crew members on floor [including woman with camcorder]; personnel behind control desk; Reiter strapped into chair and goggles put on; oculography experiment - goggles with mouthpiece - man with wireless sensors attached to his body; medium shot of sign which reads "The Munich Space Chair"; sensor man lifts weights; woman in blue ESA suit stands and rises slightly; taking readings, graph on laptop computer; adjusting video oculography goggles; video oculography subject with goggle and mouthpiece has his head covered with black cloth; turning handle on lid of combustion experiment; smiling man gives 'OK' signal; attaching rubber tube to facemasks; view landing from cockpit. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100541

**Title:** Student Parabolic Campaign 1995 / 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 22

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: pre-launch briefing for students and journalists; exterior views of crew with plane in background [plane has NASA logo on tail].</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100543

**Title:** Student Parabolic Campaign 1995 / 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 15

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: assembly of experiments in hangar; demonstration of Politecnico di Milan satellite simulation experiment; tracking shot through hangar to show various experiments; English explanation of tridirectional magnetic field experiment, also in German; high angle view of hangar to show experiments; loading of experiments using forklift truck [including Milano experiment French explanation of spontaneous symmetry rupture experiment; French explanation of glass freezing experimer Timecode jump.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100544

**Title:** Student Parabolic Campaign 1995 / 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 33

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: interior view of plane, briefing of seated students; cockpit with instruments view of runway through windscreen; shots of various experiments in hangar; English explanation of fluid particle motion experiment; various in-flight shots of experimenters, Ockels talks to them about their experiments and gives a general explanation of the flight; looks at artificial lens experiment, description in French and English; close shot of plane's instrument panel, view from cockpit window.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100545

**Title:** Student Parabolic Campaign 1995 / 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 21

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: students in plane, cockpit, seated students, view from cockpit of plane landing, students disembark, English debriefing.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100547

**Title:** Student Parabolic Campaign 1995 / 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 34

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: students enter plane [taken from interior of plane]; briefing on safety procedures [including speech from Ockels on being in microgravity, shots of Linda Billica - sound quality poor in parts]; student with guppies in tank; various experiments - weights in microgravity, burning flame; Ockels talks to 80-year old man who starts floating; various floating and experimentation footage; shot of aircraft wing through window; guppies in tank swim in different directions under microgravity.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100549

**Title:** Student Parabolic Campaign 1995 / 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 21

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: Ockels watches metal solidification experiment, spins student in microgravity student holds ball in plastic partitioned box; various in-flight footage of experiments, etc.; students disembark, post-flight interviews; Ockels gives post-flight briefing.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100550

**Title:** Student Parabolic Campaign 1995 / 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 34

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: students enter plane, filmed from interior; onboard setting-up of experiment Ockels interviewed in cockpit by ORF; various interviews by ORF; shots of various experiments, including footage of ball floating in satellite model experiment [Politecnico di Milano], explanation in Spanish and English; tethered space system simulator, convection experiment.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100551

**Title:** Student Parabolic Campaign 1995 / 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 47

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: Ockels floats with student, whilst playing music on ghettoblaster; student talks [in English] about his experience of microgravity, and about how he entered the experimental programme; various experiments, Ockels with a teddy bear; students disembark debriefing in hangar; schoolteacher talks on biology experimentation.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100552

**Title:** Student Parabolic Campaign 1995 / 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 34

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: exterior shots [from top of stairs] of students climbing onboard plane; setting up experiments; shots of journalists floating in microgravity; man wearing helmet camera; journalist and Ockels; plant growth experiment.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100553

**Title:** Student Parabolic Campaign 1995 / 10

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 20

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: crew members float; Ockels and journo float banana; various floating footage students etc. come out of plane; debriefing with Ockels.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100554

**Title:** Student Parabolic Campaign 1995 / 11

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 34

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: experiments in hanger; German explanation of experimental results; student climb aboard plane; various experiments; experiment of the University Libre de Bruxelles; eating pizza which is held to table by suction; various floating footage.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100555

**Title:** Student Parabolic Campaign 1995 / 12

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 13

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. Images include: man floats upside-down and eats pizza; view from camera as it rotates through 360; various interviews with flight people, various language Ockels talks about successes of mission; students disembark, followed by Ockels who talks about success of mission.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100556

**Title:** Student Parabolic Campaign 1995 / 13

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/20/1995

**Length:** 29

**Comments:** <plain>Footage from the ESA-sponsored 1995 parabolic flight campaign, on which students could win the opportunity to fly their experiments. The missions were hosted by the ESA astronaut Ockels. This cassette contains various images of the parabolic plane taking off, and moving along the runway. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100558

**Title:** Proba

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 02/02/1998

**Length:** 3

**Comments:** <plain>Graphics depicting the internet-controlled Dutch experimental satellite Proba. Includes the following sequences: view over Belgium, orbit, internet access to Proba, DEBIE instrument particle detection, SREM instrument radiation detection, mission over.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100559

**Title:** Ariane 4: Vol. 43 Campaign Video

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 04/01/1991

**Length:** 15

**Comments:** <plain>The Anik E2 satellite, a telecommunications satellite operated by Telesat Canada, was launched on 4th April 1991 by the Ariane 4 Vol. 43 launcher. This campaign video contains the following images: arrival of 'heavy lift' plane; unloading of container marked 'Anik E' with Canadian flag; cleanroom footage including satellite lowered onto stand, sp testing beneath plastic sheeting, fuelling of satellite, payload bay doors closed around satellite; launcher raised upright, integration of different stages; integration of vehicle equipment bay; rollout of launcher to final integration building; closing of cryogenic arms; integration of solid fuel boosters rollout of payload bay, Tape damage between 00:14:25:00 and end of tape. </plain>

**Keywords:** ARIANE 1 - 4,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100563

**Title:** Ariane 4: Vol. 46 Campaign Video

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 10/01/1991

**Length:** 14

**Comments:** <plain>The Anik E1 satellite, a telecommunications satellite operated by Telesat Canada, was launched on September 26th 1991 by the Ariane 4 Vol. 46 launcher. This video contains the following footage: integration of various launch stages; rollout of launcher to final assembly building; closing of cryogenic arms; integration of solid fuel boosters; landing of cargo plane, unloading of container marked 'Anik E'; satellite is weighed, and lowered onto stand; satellite is rotated within plastic screen; fuelling, closing of payload bay doors; rollout of payload bay; payload hoisted to top of launcher in final assembly building; integration and final rollout of launcher with 'Intelsat' logo, various night launch footage.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100565

**Title:** Parabolic flights campaign 1996 (students experiments)

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/01/1996

**Length:** 85

**Comments:** <plain>Live action recordings made during the 1996 ESA parabolic flights campaign at Bordeaux, France. The aircraft used was a US KC 135. The parabolic flight campaign was performed in the frame of the European week for scientific culture, and involved experiments by students from all over Europe. The live action recordings are preceded by a short edited music clip featuring the most spectacular footage from the campaign. The live action recordings include interview comments by the students explaining their experiments, and recordings of the experiments during zero-g.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100566

**Title:** STS-45 Mission Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length:** 41

**Comments** <plain>The Atlas 1 Atlantis shuttle mission was launched on March 24th 1992. Belgian astronaut D. Frimout was among the crew members. A Spacelab mission, STS-45 focussed on atmospheric physics and solar astronomy. This video covers some of the highlights of the mission, and footage includes: in-flight crew conference with Prince Phillippe of Belgium; crew activities - taking readings from monitors, various experimentation, re-entry flashes through window, flight deck footage during re-entry, shuttle landing footage.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100566

**Title:** STS-45 Mission Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length:** 41

**Comments** <plain>The Atlas 1 Atlantis shuttle mission was launched on March 24th 1992. Belgian astronaut D. Frimout was among the crew members. A Spacelab mission, STS-45 focussed on atmospheric physics and solar astronomy. This video covers some of the highlights of the mission, and footage includes: in-flight crew conference with Prince Phillippe of Belgium; crew activities - taking readings from monitors, various experimentation, re-entry flashes through window, flight deck footage during re-entry, shuttle landing footage.</plain>

**Keywords** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100567

**Title:** ARD Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/18/1998

**Length** 24

**Comments** <plain>Rushes of ESA's Atmospheric Re-entry Demonstrator. Shot at Aerospatiale, Bordeaux.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100567

**Title:** ARD Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/18/1998

**Length** 24

**Comments** <plain>Rushes of the constuction of ESA's Atmospheric Re entry Demonstrator. Shot at Aerospatiale, Bordeaux. </plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100568

**Title:** ARD Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/18/1998

**Length** 35

**Comments** <plain>Rushes of ESA's Atmospheric Re-entry Demonstrator. Shot at Aerospatiale, Bordeaux. Includes interviews.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100568

**Title:** ARD Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/18/1998

**Length:** 35

**Comments** <plain>Rushes of ESA's Atmospheric Re-entry Demonstrator. Shot at Aerospatiale, Bordeaux. Includes interviews.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100570

**Title:** ARD Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/18/1998

**Length:** 29

**Comments** <plain>Rushes of ESA's Atmospheric Re-entry Demonstrator. Shot at Aerospatiale, Bordeaux. Includes interviews.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100570

**Title:** ARD Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/18/1998

**Length:** 29

**Comments** <plain>Rushes of ESA's Atmospheric Re-entry Demonstrator. Shot at Aerospatiale, Bordeaux. Includes interviews.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100572

**Title:** DASA COF Model 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/08/1998

**Length:** 34

**Comments:** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. Includes: exterior views of model; man in ESA coat enters module; men at monitoring equipment [various shots and angles, Daimler-Benz/ESA personnel]. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100572

**Title:** DASA COF Model 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/08/1998

**Length:** 34

**Comments:** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. Includes: exterior views of model; man in ESA coat enters module; men at monitoring equipment [various shots and angles, Daimler-Benz/ESA personnel]. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100573

**Title:** DASA COF Model 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/08/1998

**Length:** 25

**Comments:** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. Includes: internal shot of model; man removes installation and pulls it towards himself; insertion key into -80 degrees centigrade freezer; man wearing Aerospatiale logo opens freezer; gvs interior of COF [including shower and toilet]; exterior views of module.</pla

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100573

**Title:** DASA COF Model 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/08/1998

**Length:** 25

**Comments:** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. Includes: internal shot of model; man removes installation and pulls it towards himself; insertion key into -80 degrees centigrade freezer; man wearing Aerospatiale logo opens freezer; gvs interior of COF [including shower and toilet]; exterior views of module.</pla

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100574

**Title:** MSG - ESTEC recordings

**Type:** Rushes

**Category:** live-action recordings

**Language**

**Production Date:** 04/16/1998

**Length:** 0

**Comments:** <plain>Location recordings of the Meteosat Second Generation [MSG] satellite structural model. The meteorological satellite is due to be launched in the year 2000. Footage is of the transfer of the model from the Large Space Simulator at ESTEC in the Netherlands.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100574

**Title:** MSG - ESTEC recordings

**Type:** Rushes

**Category:** live-action recordings

**Language**

**Production Date:** 04/16/1998

**Length:** 0

**Comments:** <plain>Location recordings of the Meteosat Second Generation [MSG] satellite structural model. The meteorological satellite is due to be launched in the year 2000. Footage is of the transfer of the model from the Large Space Simulator at ESTEC in the Netherlands.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100575

**Title:** Ariane 4: Vol. 104 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1998

**Length:** 36

**Comments:** <plain>The Ariane 4 Vol. 104 launch carried the Intelsat 804 satellite into orbit on December 21st, 1997. This video shows technical footage of the launch, including: plaque a clapet LO2, 250 i/s; plaque a clapet LH2, 250 i/s; integrite lanceur, 400 i/s; degagement PAL nord/ouest, 300 i/s; degagement PAL sud/est, 300 i/s; ombilicaux superiors, 100 i/s; ombilicaux centraux, 100 i/s; ensemble des ombilicaux, 100 i/s; retombees des ombilicaux, 100 i/s; allumage L220, 300 i/s; comportement lanceur, 200 i/s; ZE ATT1, attitude 0 - 100m, 100 i/s; ZE ATT1, 0 - 100m, 100 i/s; ZS ATT1, 0 - 100m, 100 i/s; TCN TMS, poursuite manuelle lanceur, 90 i/s; MAO TMS, poursuite manuelle lanceur, 90 i/s; ROY CPA1, poursuite manuelle lanceur, 75 i/s; </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100577

**Title:** DASA COF Model Space/Ground

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. As follows: 10:00:00:00 "IN SPACE" various exterior shots of module, with lighting and camera motion so that it appears to be in space. Tracking shot through interior of modules. 10:04:56:00 "ON GROUND" exterior long to medium shots of modules on ground; operator behind control desk; man entering station; interior of COF module; Earthviews on screen; general interior views of the COF and personnel inside the module.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100577

**Title:** DASA COF Model Space/Ground

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. As follows: 10:00:00:00 "IN SPACE" various exterior shots of module, with lighting and camera motion so that it appears to be in space. Tracking shot through interior of modules. 10:04:56:00 "ON GROUND" exterior long to medium shots of modules on ground; operator behind control desk; man entering station; interior of COF module; Earthviews on screen; general interior views of the COF and personnel inside the module.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100578

**Title:** Ariane 4: Vol 104 Technical Films 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1998

**Length:** 22

**Comments:** <plain>The Ariane 4 Vol. 104 launch carried the Intelsat 804 satellite into orbit on December 21st, 1997. This video shows technical footage of the launch, including: Roy OPA 1, poursuite manuelle lanceur 75 i/s; montage THE, poursuite manuelle lanceur 25 i/s; cine the, poursuite manuelle lanceur 25 i/s.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100579

**Title:** Ariane 4: Vol. 107 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 31

**Comments:** <plain>The CNES Spot 4 Earth Observation satellite was launched by Ariane 4 [Vol. 107] on March 24th, 1998. This video contains technical footage of the launch as follows: tour portique, ouverture bras cryo, 125 i/s; tour ombilicale, plaque a clapets LO2, 250 i/s; tour ombilicale, plaque a clapets LH2 250 i/s; toit portique, ensemble lanceur, 200 i/s; shelter sud, ombilicaux superiors, 100 i/s; shelter sud, omhbilicaux centraux, 100 i/s; shelter sud, ensemble desombilicaux, 100 i/s; shelter ouest, retombees des ombilicaux, 100 i/s; shelter est, comportement lanceur, 200 i/s; shelter ouest, allumage L220, 300 i/s; shelter nord, comportement lanceur, 200 i/s; shelter ouest, comportement lanceur, 200 i/s. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100580

**Title:** Ariane 4: Vol. 107 Technical Films 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 04/01/1998

**Length:** 36

**Comments:** <plain>The CNES Spot 4 Earth Observation satellite was launched by Ariane 4 [Vol. 107] on March 24th, 1998. This video contains technical footage of the launch, including: shelter nord, attitude 0-100m, 100 i/s; shelter est, attitude 0-100m, 100 i/s; shelter sud, attitude 0-100m, 100 i/s; dne/tms poursuite manuelle lanceur, 90 i/s; tcn/tms, poursuite manuelle lanceur, 90 i/s; roy/cpa1, poursuite manuelle lanceur, 75 i/s; roy/cpa2, poursuite manuelle lanceur, 75 i/s. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100582

**Title:** Ariane 4: Vol. 107 Technical Films 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 05/01/1998

**Length:** 26

**Comments:** <plain>The CNES Spot 4 Earth Observation satellite was launched by Ariane 4 [Vol. 107] on March 24th, 1998. This video contains technical footage as follows: ROY THE, poursuite lanceur, 25 i/s; TCN/TMS, camera video, 25 i/s; ROY/CPA1, poursuite camera video, 25 i/s; DNE/TMS, poursuite camera video, 25 i/s. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100583

**Title:** ISO Press Conference '98

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 04/07/1998

**Length:** 25

**Comments:** <plain>Coverage of the Infared Space Observatory [ISO] press conference, held on April 7th 1998.</plain>

**Keywords:** SPACE SCIENCE,ISO

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100586

**Title:** DASA COF Model 1

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/08/1998

**Length:** 35

**Comments** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. Includes: various shots two men examining the inside of the COF; pull out and pan round into adjoining module; men operate various machinery inside the module; shots of buttons and switches; exterior tracking shots of the model. </plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100586

**Title:** DASA COF Model 1

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 04/08/1998

**Length:** 35

**Comments** <plain>Footage of the full-size model of components [Columbus Orbital Facility (COF) and adjoining American Habitation Module] of the International Space Station at DASA in Bremen. Includes: various shots two men examining the inside of the COF; pull out and pan round into adjoining module; men operate various machinery inside the module; shots of buttons and switches; exterior tracking shots of the model. </plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100587

**Title:** STS-72 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/31/1996

**Length:** 16

**Comments:** <plain>Launched on January 11th, 1996, the STS-72 Endeavour mission included the retrieval of a Japanese satellite and the deployment of a NASA satellite. It also involved two spacewalks [EVA - extra-vehicular activity] w evaluated techniques for assembly of the International Spa Station. Amongst the crew members was a NASDA [Japanese Space Agency] astronaut, Koichi Wakata. The video contains much footage of the use of the Canada Arm. Useful images as follow s: night shot of plane taking of astronauts get into orange suits; shuttle on launchpad; cre leave operations and checkout building; night launch of shuttle; nice SRB separation; Japanese satellite against bla space background; retrieval of SFU [Japanese satellite], close-ups of Canada arm operation with cutaways to operators in shuttle [throughout the video]; deployment of OAST American satellite; EVA - getting into spacewalk suit; opening thermal protection cover, working in payload bay; astronauts on Japanese payload arm; retrieval of OAST; second EVA, closing thermal protection cover; Japanese astronaut drinks fluid globule, spins; night landing of shuttle </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100587

**Title:** STS-72 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/31/1996

**Length:** 16

**Comments:** <plain>Launched on January 11th, 1996, the STS-72 Endeavour mission included the retrieval of a Japanese satellite and the deployment of a NASA satellite. It also involved two spacewalks [EVA - extra-vehicular activity] w evaluated techniques for assembly of the International Spa Station. Amongst the crew members was a NASDA [Japanese Space Agency] astronaut, Koichi Wakata. The video contains much footage of the use of the Canada Arm. Useful images as follow s: night shot of plane taking of astronauts get into orange suits; shuttle on launchpad; cre leave operations and checkout building; night launch of shuttle; nice SRB separation; Japanese satellite against bla space background; retrieval of SFU [Japanese satellite], close-ups of Canada arm operation with cutaways to operators in shuttle [throughout the video]; deployment of OAST American satellite; EVA - getting into spacewalk suit; opening thermal protection cover, working in payload bay; astronauts on Japanese payload arm; retrieval of OAST; second EVA, closing thermal protection cover; Japanese astronaut drinks fluid globule, spins; night landing of shuttle </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100588

**Title:** STS-80 Mission Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/01/1997

**Length:** 63

**Comments:** <plain>The STS-80 mission - the longest shuttle mission to date - was launched on November 19th, 1996. It involved deployment and retrieval of the free-flying astrophysics satellite Orfeus-Spas 2, by Columbus's RMS [Remote Manipulator System]. The aim of this satellite was to investigate the far and extreme UV regions of the electromagnetic spectrum. Footage as follows - crew at table; launch control centre; crew get into orange suits; shuttle on launchpad; crew leave operations and checkout building, take bus to shuttle; CCTV astronauts at crew access arm, are helped suit up by technicians; shuttle on launchpad; main engines steering check; retraction of gaseous oxygen cap; audience with large countdown clock launch; very clear SRB separation; fuel tank falls away; payload bay door; crew members in flight deck; operation of the RMS; Orfeus Spas deployment; operation of the arm, payload bay operations [with view through RMS camera]; Wakeshield deployment; polishing of EVA [extra-vehicular activity] helmets; checking EVA tools; getting into EVA suits exterior view of thermal hatch popping open; close shot of hatch unlocking mechanism; Orfeus Spas retrieval; Wakeshield facility [WSF] retrieval; shuttle landing.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100589

**Title:** STS-84 PFP Long Version

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 07/23/1997

**Length:** 55

**Comments:** <plain>The STS-84 Atlantis mission was launched on May 15th 1997. The American shuttle Atlantis carried out the six docking with the Russian space station Mir, exchanging crew members, delivering supplies and testing new technologies. ESA astronaut Jean-Francois Clervoy made his second trip into space. Footage as follows: STILLS: annotated photo of crew; mission patch; launch; long shot Mir; Clervoy in flight deck, Mir in background through window; medium shot Mir; crew members in flight deck; docking target with prototype dot-based system; NASA astronaut and Russian cosmonaut shake hands through hatch; exchange of gifts; Russian and American crew members together; various shots of crew members; Earthviews; re-entry and landing. VIDEO: crew in orange suits in operations and checkout building; crew leave operations and checkout building; ignition, shuttle launch; SRB separation; booster falls towards Earth; hatch opened into Spacelab, Clervoy in Spacehab; view of rendezvous from interior of flight deck; view of Mir, white in the sunlight docking procedure; crew members greet each other; crew eat together; ESA chocolate, chocolate shuttles; crew perform changeover operations; view from shuttle of Mir [whilst docked]; closing of hatch; separation of docking mechanism; view of shuttle from Mir; interior of Spacehab, various experimentation; Biorack; tadpoles, developing vestibular systems in zero-G; experiment to investigate the rotation of liquid in containers; fax machine output, stretched away down tunnel; meal in the Spacehab; various exercising; crew move down tunnel together; various Earthviews, including space sunset; suiting-up for re-entry, closing of payload bay door; crew on flight deck preparing for re-entry; re-entry, plasma flashes through windows; various views of shuttle landing.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100590

**Title:** NASA ISS Graphics Dec' 1997

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 01/12/1997

**Length:** 26

**Comments** <plain>Various graphics of the International Space Station - showing various components and the contributions of different nations. As used in the Int. Space Station Index 1998 [production number 000693].</plain>

**Keywords** SPACE STATIONS,NASA GENERAL,INTERNATIONAL SP

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100590

**Title:** NASA ISS Graphics Dec' 1997

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 01/12/1997

**Length:** 26

**Comments** <plain>Various graphics of the International Space Station - showing various components and the contributions of different nations. As used in the Int. Space Station Index 1998 [production number 000693].</plain>

**Keywords** SPACE STATIONS,NASA GENERAL,INTERNATIONAL SP

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100591

**Title:** DASA COF Ground Systems Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/05/1998

**Length:** 36

**Comments:** <plain>Recorded at DASA in Bremen, Germany, these rushes depict development of the ground support systems the Columbus Orbital Facility [COF]. The COF is one of Europe's contributions to the International Space Station. Footage as follows: general office views [personnel, keyboards etc.]; screen output of internet web pages [including those that refer to the fault tolerant computer]; racks of equipment, design team discuss plans, with rotating module projection in background and systems layout screen output. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100592

**Title:** ISS Graphics Sound Dub Cassette

**Type:** Miscellaneous

**Category:** Graphics

**Language:** ME only

**Production Date:** 12/05/1998

**Length:** 17

**Comments:** <plain>Various components of production number 000693 - the ESA Int. Space Station Index - with sound added onto the ESA - commissioned graphics sections.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100593

**Title:** ISS Graphics [Contributions] 1998

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/05/1998

**Length:** 5

**Comments:** <plain>Graphics depicting the contributions of various natio  
to the International Space Station.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100593

**Title:** ISS Graphics [Contributions] 1998

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/05/1998

**Length:** 5

**Comments:** <plain>Graphics depicting the contributions of various natio  
to the International Space Station.</plain>

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100594

**Title:** ISS Graphics [COF Module] 1998

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 05/05/1998

**Length:** 2

**Comments:** <plain>Detailed graphics of the structure - both internal and  
external - of the Columbus Orbital Facility [COF], one of  
ESA's contributions to the International Space Station.</plair

**Keywords:** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100594

**Title:** ISS Graphics [COF Module] 1998

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 05/05/1998

**Length** 2

**Comments** <plain>Detailed graphics of the structure - both internal and external - of the Columbus Orbital Facility [COF], one of ESA's contributions to the International Space Station.</plair

**Keywords** SPACE STATIONS,INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100595

**Title:** SSRMS Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 01/05/1998

**Length** 7

**Comments** <plain>Rushes of the construction of the Canadian contribution to the International Space Station - the SSRMS [Space Station Remote Manipulator System] - recorded at the Canadian Space Agency's David Florida Laboratory in Canada.</plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100596

**Title:** Aurora footage from FMI

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 00/00/00

**Length:** 9

**Comments:** <plain>Footage of northern lights / aurora borealis recorded by the Finnish Meteorological Institute (Prof. Pellinen). Music on sound track copyrighted.</plain>

**Keywords** SPACE STATIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100597

**Title:** Ariane 503 rushes de Pariacabo au BIL

**Type:** Rushes

**Category:** live-action recordings

**Language** ME only

**Production Date** 06/13/1998

**Length:** 15

**Comments:** <plain>Rushes of the arrival of the Ariane 503 launcher in French Guiana: Arrival of MS Toucan in Kourou harbour (Pariacabo) Unloading of containers Transport of containers to Launcher integration building BIL in convoi All shots during rainfall</plain>

**Keywords** ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100599

**Title:** Arrival ARD in Kourou

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 8

**Comments:** <plain>Rushes of the arrival of the Atmospheric Re-entry Demonstrator (ARD) at Europe's Spaceport in Kourou, French Guiana (CSG): arrival of MN Toucan, unloading of container with ARD, transport on road to BAF building at CSG, unloading of container.</plain>

**Keywords:** MANNED SPACEFLIGHT,CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** commercial

---

**Pouction no.** 00100599

**Title:** Arrival ARD in Kourou

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 8

**Comments:** <plain>Rushes of the arrival of the Atmospheric Re-entry Demonstrator (ARD) at Europe's Spaceport in Kourou, French Guiana (CSG): arrival of MN Toucan, unloading of container with ARD, transport on road to BAF building at CSG, unloading of container.</plain>

**Keywords:** MANNED SPACEFLIGHT,CSG KOUROU

**Shotlist:** <plain></plain>

**Use:** commercial

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**Pouction no.** 00100601

**Title:** 1996 Parachute/Ejection Training

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/17/1997

**Length:** 43

**Comments:** <plain>Ascan training of astronauts [including ESA astronaut Pedro Duque] - parachute training [parascending], ejection seat training</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100602

**Title:** 1996 Wilderness Training

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/17/1997

**Length:** 42

**Comments:** <plain>Ascan training of astronauts, including ESA's Pedro Duque - general survival training.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100603

**Title:** John Glenn Training Feb' 98

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 02/01/1998

**Length:** 14

**Comments:** <plain>John Glenn, the first American in orbit, will fly again on the STS-95 mission with ESA astronaut Pedro Duque. This tape contains footage of Glenn training with NASA.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100603

**Title:** John Glenn Training Feb' 98

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 02/01/1998

**Length:** 4

**Comments:** <plain>John Glenn, the first American in orbit, will fly again on the STS-95 mission with ESA astronaut Pedro Duque. This tape contains footage of Glenn training with NASA.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100605

**Title:** Euromir To REDU Transmission

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/30/1995

**Length:** 20

**Comments:** <plain>Poor quality footage of a conference between Euromir '95 crew [namely Thomas Reiter] and ESA's REDU Space Camp. The focus is the Art in Space project.</plain>

**Keywords:** EUROMIR,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100606

**Title:** ESA REDU Space Camp rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/30/1995

**Length:** 27

**Comments:** <plain>Recordings taken at ESA's REDU Space Camp during the Euromir '95 mission. Including: shuttle model, Eur Space centre building, French/English presentation of ESA, viewing of ESA promotional video, the Art Into Space proje kids look at shuttle mock-up. </plain>

**Keywords:** EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100606

**Title:** ESA REDU Space Camp rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/30/1995

**Length:** 13

**Comments:** <plain>Recordings taken at ESA's REDU Space Camp during the Euromir '95 mission. Including: kids talk about Art in Space project [in French and English], artists talk about their work.</plain>

**Keywords:** EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100606

**Title:** ESA REDU Space Camp rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/30/1995

**Length:** 32

**Comments:** <plain>Recordings taken at ESA's REDU Space Camp during the Euromir '95 mission. Including: kid in gyroscope zero-g simulator; moonwalk simulator; models - Ariane rockets, Mir; shuttle simulator.</plain>

**Keywords:** EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100606

**Title:** ESA REDU Space Camp rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/30/1995

**Length:** 12

**Comments:** <plain>Recordings taken at ESA's REDU Space Camp during the Euromir '95 mission. This tape contains recording of a conference between Mir [esp. ESA astronaut Thomas Reiter] and the space camp [ presenters include Ulf Merbold] - the Art In Space project is discussed.</plain>

**Keywords:** EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100608

**Title:** ESA Opening Titles July 1998

**Type:** Miscellaneous

**Category:** miscellaneous

**Language:** M/E only

**Production Date:** 07/12/1998

**Length:** 1

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100608

**Title:** ESA Opening Titles July 1998

**Type:** Miscellaneous

**Category:** miscellaneous

**Language** M/E only

**Production Date** 07/12/1998

**Length:** 1

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100609

**Title:** Ariane 503: Main Stage Erection

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 06/18/1998

**Length:** 15

**Comments:** <plain>Rushes which show the erection of Ariane 503's main stage [EPC], and attachment of the solid boosters [EAPs].</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100609

**Title:** Ariane 503: Main Stage Erection

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 06/18/1998

**Length:** 15

**Comments:** <plain>Rushes which show the erection of Ariane 503's main stage [EPC], and attachment of the solid boosters [EAPs].</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100610

**Title:** Pedro Duque Houston Rushes roll 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/27/1998

**Length:** 22

**Comments:** <plain>Rushes of the ESA astronaut Pedro Duque prior to his first space flight, the STS-95 mission. Shot at Houston, Texas, the tape also includes material on John Glenn, who was the first American in orbit and is scheduled to fly with Duque. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100611

**Title:** Euromir '95 Inflight

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/1996

**Length:** 19

**Comments:** <plain>The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, involved the transfer of the German astronaut Thomas Reiter to the Russian space station Mir. Includes the following images: Star City sign, camels; Reiter signs door of astronauts quarters; rollout of Soyuz launcher, gvs' erection of launcher; Reiter suited up, waves; astronauts enter Soyuz capsule; day launch, Mir in orbit; Progres resupply vehicle; gvs' Soyuz approaches Mir docking, hatch opens; space sunrise; cosmonaut on exercise bike; Reiter demonstrates living quarters; in-flight conference; kids ask questions; gvs' Eurodisney kids' procession; Mir window hatch opens to show view of Earth; Reiter puts on oculography equipment; gvs' Sun from space; gvs' EVA [poor quality images]; Reiter has his hair cut; Reiter exercises on walking simulator [gvs' shuttle from Mir; NASA astronaut plays guitar; flythrough int. Mir to shuttle. </plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100613

**Title:** Ariane 501 Manufacture Compilation 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 08/04/1997

**Length:** 15

**Comments:** <plain></plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100615

**Title:** Ariane 502 Film Copies

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 11/01/1997

**Length:** 49

**Comments:** <plain>Various footage of the successful launch of Ariane 502 on October 30th, 1997. Includes: 16mm footage of the launch, spectators, Guyana space centre [including Ariane model], flight of the launcher, various technical footage of Ariane 5. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100615

**Title:** Ariane 502 Film Copies

**Type:** Miscellaneous

**Category:** live-action recordings

**Language** M/E only

**Production Date** 11/01/1997

**Length:** 49

**Comments** <plain>Various footage of the successful launch of Ariane 502 on October 30th, 1997. Includes: 16mm footage of the launch, spectators, Guyana space centre [including Ariane model], flight of the launcher, various technical footage of Ariane 5. </plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100616

**Title:** Apollo 11/12 Lunar Samples

**Type:** Selected Rushes

**Category:** documentary,general public

**Language** English

**Production Date** 00/00/00

**Length:** 9

**Comments** <plain>A film which looks at some of the results of the Apol 11 and 12 missions. Includes: collecting samples from the moon's surface; examination of samples; various organism exposed to lunar material to ascertain whether or not there pathological hazards - including conifer seedlings, tobacco tissue cultures, insects, shrimp, Japanese quail, mice; view of the lunar surface, microscope shots of sections through moonrocks.</plain>

**Keywords** NASA GENERAL,HISTORICAL MATERIAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100617

**Title:** ECS at Toulouse Space Centre

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Payload bay hoisted up to top of launch tower; vehic  
equipment bay; preparation of satellite and payload bay; gv  
launch site; cleanroom footage; rollout of payload bay. </pla

**Keywords:** ECS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100619

**Title:** Ariane 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 01/01/1979

**Length:** 20

**Comments:** <plain>Ariane 1 was launched in 1979. This video contains  
telecined material of the launch, technical close-ups and  
annotated pictures of the launcher on its pad to show the  
locations of various components.</plain>

**Keywords:** ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100622

**Title:** Explorer 23

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>Footage of the launch of NASA's Explorer 23 scient  
payload, including control room footage.</plain>

**Keywords:** NASA GENERAL,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100623

**Title:** John Glenn NTV Video File Feed

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/16/1998

**Length:** 13

**Comments:** <plain>Organised as follows: video of STS-95 crew during photo shoot; Glenn practises medical procedures at JSC in Houston, Texas; Glenn learns photo techniques; crew train on light weight seat; astronauts John Glenn and Steve Lindsay during SAREX ham radio training at JSC; John Glenn receives computer training; Curt Brown, John Glenn and Chiaki Mukai select clothing and items for shuttle flight.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100623

**Title:** John Glenn NTV Video File Feed

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/16/1998

**Length:** 13

**Comments:** <plain>Organised as follows: video of STS-95 crew during photo shoot; Glenn practises medical procedures at JSC in Houston, Texas; Glenn learns photo techniques; crew train on light weight seat; astronauts John Glenn and Steve Lindsay during SAREX ham radio training at JSC; John Glenn receives computer training; Curt Brown, John Glenn and Chiaki Mukai select clothing and items for shuttle flight.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100624

**Title:** NTV Video File Feed STS-95/Glenn

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 9

**Comments:** <plain>A selection of seven telecined historic cuts of John Glenn. </plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100624

**Title:** NTV Video File Feed STS-95/Glenn

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 9

**Comments:** <plain>A selection of seven telecined historic cuts of John Glenn. </plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100625

**Title:** STS-66: Views of the Earth

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain>The STS-66 (Atlas 3) mission was launched on November 3rd, 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist ESA's Jean-Francois Clervoy, mission specialist; Scott Parazynski, mission specialist. This tape contains brief footage of a crew in-flight conference with ground control, followed by a section of the Erath flyover in real time. </plain>

**Keywords:** SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100626

**Title:** ESA Astronauts Med. Dive Train 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 0

**Comments:** <plain>04:02:45 gvs' divers with ESA patches 04:03:56:00 pan along ESA divers on sea bed 04:07:40:00 air-sharing, clear shots of Merbold 04:13:15:00 neutral buoyancy - general face shots underwater 04:22:45:00 Clervoy floats surface of water grinning 04:27:00:00 Clervoy pulls off his mask and regulator, grins to camera 04:27:53:00 neutral buoyancy training, spin etc. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100627

**Title:** ESA Astronauts Med. Dive Train 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 0

**Comments:** <plain>ESA divers receive qualification cards, to applause; lecture on Nitrox, ESA drape behind lecturer, various face shots ESA astronauts; ESA astronauts sign diving certificates; writing formulae on board; interview with Claude Nicollier, who describes his career.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100628

**Title:** ESA Astronauts Med. Dive Train 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>I/V [GB] with Pedro</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00100629

**Title:** ESA Astronauts Med. Dive Train 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>astronauts on boat examining nitrogen; close shots  
ESA astronauts, wetsuits bear names and logo 10:14:28:00  
ESA flag flaps in wind, pan down to show Clervoy sunbath  
on deck of boat, astronauts on deck 10:17:59:00 child takes  
photo of astronaut line-up 10:32:42:00 Pedro spins  
beachball on his finger, throws it to child, Pedro and son  
[presumably] at table together etc. Clervoy speaks [sound  
levels low] on the experience of diving</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100630

**Title:** ESA Astronauts Med. Dive Train 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 0

**Comments:** <plain>general diving footage, including night dive</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100631

**Title:** ESA Astronauts Med. Dive Train 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 0

**Comments:** <plain>night dive footage and general stuff - astronauts drink wine in bar, Thomas Reiter watches video of a previous mission and answers questions on it [sound levels low]</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100632

**Title:** ESA Astronauts Med. Dive Train 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 0

**Comments:** <plain>Reiter talks with diving instructor about EVA [low sound levels] 11:19:33:00 Clervoy skims rocks with his kids presentation of diving certificates, Reiter and Pedro sit at table with wine, singing etc.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100633

**Title:** ESA Astronauts Med. Dive Train 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 0

**Comments:** <plain>Reiter practises the use of breathing apparatus; Pedro does same, aboard diving boat 12:05:09:00 Reiter in water with wife and kids Reiter uses re-breathing apparatus underwater; same for Merbold, and briefly for other ESA astronauts 12:18:49:00 divers swim through small submerged square [microgravity simulation] 12:30:15:00 Clervoy feeds fish 12:32:36:00 Reiter removes facemask and regulator, blows bubbles</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100634

**Title:** ESA Astronauts Med. Dive Train 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1996

**Length:** 0

**Comments:** <plain>ESA astronauts receive introductory diving lecture [shot of instructor's ESA badge at 01:01:53:00]; face shots astronauts 01:02:50:00 Clervoy, Pedro, Fuglesang, Reiter, Merbold and Nicollier receive medical checks 01:10:24:00 Clervoy studies diving chart; various face shots of astronauts on diving boat; more face shots as astronauts receive lecture at dinner table, instructor demonstrates how divers will practise dexterity underwater using a wine cork; Reiter does trick with cork, same for Fuglesang, Nespoli [ESA training engineer]; Merbold/Reiter unroll and read contract [presumably]</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100636

**Title:** ARD Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 07/30/1998

**Length:** 5

**Comments:** <plain>Graphics depicting the launch, flight and re-entry of ESA's Atmospheric Re-entry Demonstrator [ARD]. </plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100638

**Title:** Ariane 503 rushes de Pariacabo au BIL

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 06/13/1998

**Length:** 15

**Comments:** <plain>Rushes of the arrival of the Ariane 503 launcher in French Guiana: Arrival of MS Toucan in Kourou harbour (Pariacabo) Unloading of containers Transport of containers to Launcher integration building BIL in convoi All shots during rainfall</plain>

**Keywords:** ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100639

**Title:** Ariane 503: ARD Arrival Ruses

**Type:** Selected Ruses

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/15/1998

**Length:** 74

**Comments:** <plain>Ruses of the arrival of ESA's atmospheric re-entry demonstrator [ARD] in Kourou, as follows: -arrival and unloading of the ARD from the MN Toucan at Kourou [15/06/98] -convoy towards the BAF [15/06/98] -unloading and installation[02/09/98] -calibration/ testing [09/09/98] - fuelling rehearsal [15/09/98] </plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100639

**Title:** Ariane 503: ARD Arrival Ruses

**Type:** Selected Ruses

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/15/1998

**Length:** 74

**Comments:** <plain>Ruses of the arrival of ESA's atmospheric re-entry demonstrator [ARD] in Kourou, as follows: -arrival and unloading of the ARD from the MN Toucan at Kourou [15/06/98] -convoy towards the BAF [15/06/98] -unloading and installation[02/09/98] -calibration/ testing [09/09/98] - fuelling rehearsal [15/09/98] </plain>

**Keywords:** ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100640

**Title:** Unveiling Envisat: Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/04/1998

**Length:** 16

**Comments:** <plain>see edit master 000749</plain>

**Keywords:** ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100641

**Title:** Unveiling Envisat: Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/03/1998

**Length:** 22

**Comments:** <plain>see edit master 000749</plain>

**Keywords:** ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100642

**Title:** Ariane 4: Vol. 109 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 08/25/1998

**Length:** 7

**Comments:** <plain>The Ariane 4 Vol.109 launch, on August 25th 1998, carried the ST-1 high power communications satellite into orbit. This video contains various technical footage of the launch.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100642

**Title:** Ariane 4: Vol. 109 Technical Films 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 08/25/1998

**Length** 32

**Comments** <plain>The Ariane 4 Vol.109 launch, on August 25th 1998, carried the ST-1 high power communications satellite into orbit. This video contains various technical footage of the launch.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100642

**Title:** Ariane 4: Vol. 109 Technical Films 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 08/25/1998

**Length** 14

**Comments** <plain>The Ariane 4 Vol.109 launch, on August 25th 1998, carried the ST-1 high power communications satellite into orbit. This video contains various technical footage of the launch.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100643

**Title:** STS-90: Experiments 1

**Type:** Selected Rushes

**Category:**

**Language**

**Production Date** 02/27/1998

**Length** 11

**Comments** <plain>STS-90 Neurolab in-flight experimentation: oyster toadfish, SSPF</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100643

**Title:** STS-90: Experiments 2

**Type:** Selected Rushes

**Category:**

**Language**

**Production Date** 02/27/1998

**Length** 16

**Comments** <plain>STS-90 Neurolab in-flight experimentation: broadtail fish</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100643

**Title:** STS-90: Experiments 3

**Type:** Selected Rushes

**Category:**

**Language**

**Production Date** 02/27/1998

**Length** 11

**Comments** <plain>STS-90 Neurolab in-flight experimentation: various</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100643

**Title:** STS-90: Experiments 4

**Type:** Selected Rushes

**Category:**

**Language**

**Production Date** 02/04/1998

**Length** 25

**Comments** <plain>STS-90 Neurolab in-flight experimentation: rats in space</plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100645

**Title:** Ariane 503: Transfer Of Launcher

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/10/1998

**Length:** 63

**Comments:** <plain>The final qualification flight of Ariane 503 is due to be launched in October 1998. This video contains rushes of the rollout of the launcher [without payload] from its integration building [BIL] to final assembly building [BAF].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100645

**Title:** Ariane 503: Transfer BIL to BAF

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/10/1998

**Length:** 63

**Comments:** <plain>The final qualification flight of Ariane 503 is due to be launched in October 1998. This video contains rushes of the rollout of the launcher [without payload] from its integration building [BIL] to final assembly building [BAF].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100645

**Title:** Ariane 503: Transfer BIL to BAF

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/10/1998

**Length:** 63

**Comments:** <plain>The final qualification flight of Ariane 503 is due to be launched in October 1998. This video contains rushes of the rollout of the launcher [without payload] from its integration building [BIL] to final assembly building [BAF].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100646

**Title:** ARD Kourou rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1998

**Length:** 48

**Comments:** <plain>ESA's ARD [Atmospheric Re-entry Demonstrator] will be launched by Ariane 503 in October 1998. This tape contains coverage of the following stages of ARD integration: -fuelling of ARD [28/09/98] -application of tiles [30/09/98] ARD placed on speltra [03/10/98]</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100646

**Title:** ARD Kourou rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1998

**Length:** 48

**Comments:** <plain>ESA's ARD [Atmospheric Re-entry Demonstrator] will be launched by Ariane 503 in October 1998. This tape contains coverage of the following stages of ARD integration: -fuelling of ARD [28/09/98] -application of tiles [30/09/98] ARD placed on speltra [03/10/98]</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100646

**Title:** ARD Kourou rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1998

**Length:** 48

**Comments:** <plain>ESA's ARD [Atmospheric Re-entry Demonstrator] will be launched by Ariane 503 in October 1998. This tape contains coverage of the following stages of ARD integration: -fuelling of ARD [28/09/98] -application of tiles [30/09/98] ARD placed on speltra [03/10/98]</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100646

**Title:** ARD Kourou rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/01/1998

**Length:** 48

**Comments:** <plain>ESA's ARD [Atmospheric Re-entry Demonstrator] will be launched by Ariane 503 in October 1998. This tape contains coverage of the following stages of ARD integration: -fuelling of ARD [28/09/98] -application of tiles [30/09/98] ARD placed on speltra [03/10/98]</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100647

**Title:** Ariane 503 & ARD news feeds

**Type:** Original Material

**Category:** live-action recordings

**Language:** ME only

**Production Date:** 10/21/1998

**Length:** 22

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1998. With ESA's ARD [Atmospheric Re-entry Demonstrator] and the Maqsat 3 dummy satellite as passengers, the launch successfully completed the series three test flights, thus qualifying the new launcher for commercial use. This video is a compilation of news transmissions broadcast throughout the final stages of the Ariane 503 launch campaign. </plain>

**Keywords:** LAUNCHERS,HISTORICAL MATERIAL,ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100647

**Title:** Ariane 503 & ARD news feeds

**Type:** Original Material

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 10/21/1998

**Length:** 22

**Comments:** <plain>Europe's Ariane 503 rocket was launched on October 20th, 1997. With ESA's ARD [Atmospheric Re-entry Demonstrator] and the Maqsat 3 dummy satellite as passengers, the launch successfully completed the series three test flights, thus qualifying the new launcher for commercial use. This video is a compilation of news transmissions broadcast throughout the final stages of the Ariane 503 launch campaign. </plain>

**Keywords:** LAUNCHERS,HISTORICAL MATERIAL,ARIANE 5,ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100649

**Title:** STS-87 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 08/18/1998

**Length:** 18

**Comments:** <plain>The STS-87 space shuttle Columbia mission was carried out by NASA over November/ December 1997. This video contains a summary of the mission, as follows: crew are suited up; crew leave operations and checkout building crew strapped into position for launch; shuttle day launch; view of crew smiling during launch; booster separation; view of external tank ejection; opening of payload bay doors; view from above of payload bay; time-lapse view of dendritic experiment; opening of solar can, experiment to vertically analyse ozone concentration; deployment of Spartan satellite using Canada arm; attempt to re-capture satellite [unsuccessful due to tilting]; pedal exercising, with model of Spartan; crew in airlock; astronauts manually berth satellite into payload bay [image quality poor, sears]; EVA astronaut manipulate mock space station battery, using manual crane; astronaut enters airlock; plant growth experiments; working with the mid-deck glovebox; astronaut dons EVA suit, drink from drinkbag; Spartan VGS [Video Guidance System] laser reflectors in operation; Spartan on payload arm; crane set up cable caddy attached; launch of Alrcam sprint robotically-controlled camera, pictures taken by the Sprint, camera guided into the astronaut's arms; astronaut rotates pliers; astronauts spin [opening arms to demonstrate principles of inertia]; various Earthviews - Himalayas, ocean and NW corner of African continent, Sahara desert; jet firings; landing sequence; view through windows of astronauts performing post-landing checks.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100649

**Title:** STS-87 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 08/18/1998

**Length:** 18

**Comments:** <plain>The STS-87 space shuttle Columbia mission was carried out by NASA over November/ December 1997. This video contains a summary of the mission, as follows: crew are suited up; crew leave operations and checkout building crew strapped into position for launch; shuttle day launch; view of crew smiling during launch; booster separation; view of external tank ejection; opening of payload bay doors; view from above of payload bay; time-lapse view of dendritic experiment; opening of solar can, experiment to vertically analyse ozone concentration; deployment of Spartan satellite using Canada arm; attempt to re-capture satellite [unsuccessful due to tilting]; pedal exercising, with model of Spartan; crew in airlock; astronauts manually berth satellite into payload bay [image quality poor, sears]; EVA astronaut manipulate mock space station battery, using manual crane; astronaut enters airlock; plant growth experiments; working with the mid-deck glovebox; astronaut dons EVA suit, drink from drinkbag; Spartan VGS [Video Guidance System] laser reflectors in operation; Spartan on payload arm; crane set up cable caddy attached; launch of Alrcam sprint robotically-controlled camera, pictures taken by the Sprint, camera guided into the astronaut's arms; astronaut rotates pliers; astronauts spin [opening arms to demonstrate principles of inertia]; various Earthviews - Himalayas, ocean and NW corner of African continent, Sahara desert; jet firings; landing sequence; view through windows of astronauts performing post-landing checks.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100650

**Title:** Ariane 503: launch from beach

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/21/1998

**Length:** 6

**Comments:** <plain>Views of Ariane 503 launch spectators, taken from beach near CSG, with footage of the launcher in flight. </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100652

**Title:** Ariane 503: Onboard Camera Footage

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/21/1998

**Length:** 9

**Comments:** <plain>Video recordings taken from Ariane 503's onboard camera, showing launch and booster separation.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100652

**Title:** Ariane 503: Onboard Camera Footage

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/21/1998

**Length:** 9

**Comments:** <plain>Video recordings taken from Ariane 503's onboard camera, showing launch and booster separation.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100654

**Title:** Ariane 4: Vol. 111 technical films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/01/1998

**Length:** 35

**Comments:** <plain>Various technical footage of the Ariane 4 vol. 111 launch.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100654

**Title:** Ariane 4: Vol. 111 technical films 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/01/1998

**Length:** 26

**Comments:** <plain>Various technical footage of the Ariane 4 vol. 111 launch.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100654

**Title:** Ariane 4: Vol. 111 technical films 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/01/1998

**Length:** 23

**Comments:** <plain>Various technical footage of the Ariane 4 vol. 111 launch.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100655

**Title:** Ariane 503: Vol 112 Technical Films [Montage]

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 11/01/1998

**Length** 13

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successsfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. This video contains various technical  
footage of the launch itself, including footage from the  
launcher's onboard camera.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100655

**Title:** Ariane 503: Vol 112 Technical Films Tape 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 11/01/1998

**Length** 13

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successsfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. This video contains various technical  
footage of the launch and flight, including stage  
separation.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100655

**Title:** Ariane 503: Vol 112 Technical Films Tape 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 11/01/1998

**Length** 12

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. This video contains various technical  
footage of the launcher's flight, including stage  
separation.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100655

**Title:** Ariane 503: Vol 112 Technical Films Tape 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 11/01/1998

**Length** 37

**Comments** <plain>Europe's Ariane 503 rocket was launched on Octob  
20th, 1998. With ESA's ARD [Atmospheric Re-entry  
Demonstrator] and the Maqsat 3 dummy satellite as  
passengers, the launch successfully completed the series  
three test flights, thus qualifying the new launcher for  
commercial use. This video contains various technical  
footage of the launch.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100656

**Title:** Black Hole Animation

**Type:** Original Material

**Category:** Graphics

**Language:** Natural Sound Only

**Production Date:** 11/03/1998

**Length:** 0

**Comments:** <plain>VArious animations of black holes.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100660

**Title:** Teleconference Tape 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/25/1996

**Length:** 47

**Comments:** <plain>The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, involved the transfer of the German astronaut Thomas Reiter to the Russian space station Mir. This tape covers a teleconference with Mir during this time, featuring astronauts Yury Gidzenko, Serge Avdeev and Thomas Reiter. Reiter is questioned by the press. </plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100661

**Title:** Teleconference Tape 4

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/14/1994

**Length:** 62

**Comments:** <plain>The STS-66 (Atlas 3) mission was launched on November 3rd, 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist ESA's Jean-Francois Clervoy, mission specialist; Scott Parazynski, mission specialist. Recorded in November 1994 the video includes a crew conference with journalists and an introductory speech about space programmes. </plain>

**Keywords:** SHUTTLE MISSIONS, MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100662

**Title:** Teleconference Tape 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/14/1994

**Length:** 18

**Comments:** <plain>The STS-66 (Atlas 3) mission was launched on November 3rd, 1994. Atlantis shuttle crew were as follows: Don McMonagle, commander; Curtis Brown, pilot; Ellen Ochoa, payload commander; Joe Tanner, mission specialist ESA's Jean-Francois Clervoy, mission specialist; Scott Parazynski, mission specialist. Clervoy is interviewed by Prime Minister of France E. Balladur, and some of the ministers. </plain>

**Keywords:** SHUTTLE MISSIONS, MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100663

**Title:** Teleconference Tape 5

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/19/1995

**Length:** 26

**Comments:** <plain>The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, involved the transfer of the German astronaut Thomas Reiter to the Russian space station Mir. This video contains a teleconference between Mir and members of ESA Council at ministerial level during their meeting in Toulouse. Includes: questions to Reiter from journalists; greetings for crew from P. Koroleva, wife of Sergey P. Korolev; talk with Christer Fuglesang, Reiter's backup. Sound and picture quality poor. </plain>

**Keywords:** MANNED SPACEFLIGHT,EUROMIR

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100664

**Title:** Teleconference Tape 6

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/14/1994

**Length:** 20

**Comments:** <plain>The mission Euromir '95, launched on 3rd September 1995 and lasting 179 days, involved the transfer of the German astronaut Thomas Reiter to the Russian space station Mir. Contains Clervoy interview with Balladur and other ministers.</plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100665

**Title:** Leonids graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 11/10/1998

**Length:** 4

**Comments:** <plain>Animations regarding the Leonids storm of November 1998 - Tempel Tuttle passes close to the Sun, releasing meteorites; meteorite shatters solar panel of telecommunications satellite, electromagnetic effect over satellite systems; the Leonids interact with the Earth's atmosphere; Hubble orientates itself to face away from the meteorite shower.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100666

**Title:** Ariane 503: Vol 112 Maqsat Integration rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** LAUNCHERS,HISTORICAL MATERIAL,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100666

**Title:** Ariane 503: Vol 112 Maqsat Integration Rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 78

**Comments:** <plain>Installation of Maqsat into payload bay - including various shots of the inside surface of the payload bay, Mac installed onto its engine, payload bay raised and lowered or satellite, various pans of launcher, lift shots, application of logos.</plain>

**Keywords:** LAUNCHERS,HISTORICAL MATERIAL,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100667

**Title:** Rushes: CNES 18/09/98 tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 09/18/1998

**Length:** 2

**Comments:** <plain>Rehearsals for monitoring ESA's atmospheric re-ent demonstrator [ARD], due to be launched by Ariane 503.</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100667

**Title:** Rushes: CNES 18/09/98 tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 09/18/1998

**Length:** 33

**Comments:** <plain>Rehearsals for monitoring ESA's atmospheric re-entry demonstrator [ARD], due to be launched by Ariane 503.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100669

**Title:** Ariane 4: Vol. 112 Technical Films tape 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 00/00/00

**Length:** 36

**Comments:** <plain>Various technical footage of the Ariane 4 Vol 112 launch.</plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100670

**Title:** SOHO Images November 1998

**Type:** Original Material

**Category:** miscellaneous

**Language** Mute

**Production Date** 11/01/1998

**Length:** 8

**Comments:** <plain>Images taken by ESA's SOHO [Solar and Heliospheric Observatory] satellite.</plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100672

**Title:** Leonids Interviews

**Type:** Rushes

**Category:** Interviews

**Language:** Various

**Production Date:** 11/17/1998

**Length:** 28

**Comments:** <plain>Interviews with Dr. John Zarnecki [English] and Dr. Luisa Lara Lopez. We do not have permission to use these images.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 6

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. This tape contains the following footage: Dan Goldin speaks to the press at the shuttle landing facility after landing of STS-95.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 4

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 4

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. This tape contains the following footage: STS-95 crew in Space Station Processing Facility working with fish experiment.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 5

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 3

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. This tape contains the following footage: Dan Goldin speaks to the press at the shuttle landing facility after landing of STS-95.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 6

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 5

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. This tape contains the following footage: STS-95 crew at gantry with family and friends.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 7

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 4

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. This tape contains the following footage: crew during breakfast, suiting, and walkout in the Ode prior to launch of Discovery.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 13

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. This tape contains the following footage: STS-95 Post-Landing crew press conference and departure from skid strip at Cape Canaveral Air Station.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 6

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchhiker] payloads. This tape contains the following footage: astronauts in the space station processing facility with experiments.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 8

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 94

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. This tape contains the following footage: meal, suit-up, launch, launch replays.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100674

**Title:** STS-95 Post-flight tape 9

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/11/1998

**Length:** 37

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. The primary objectives of this flight are to conduct a variety of science experiments [using the Spacehab module], deployment and retrieval of the Spartan free-flyer payload, and operation of HOST [HST Orbiting Systems Test] and IEH [International Extreme Ultraviolet Hitchiker] payloads. This tape contains the following footage: interviews, in English, with ESA astronaut Pedro Duque.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100676

**Title:** STS-65: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 07/08/1994

**Length:** 41

**Comments:** <plain>The second International Microgravity Laboratory mission [IML-2], aboard the Space Shuttle Columbia, was launched on July 8th, 1994. Provided by NASA, the Spacelab mission included several facilities provided by ESA. 82 experiments, from 15 different countries and involving about 200 scientists, were performed. These included research in the fields of human physiology, biology, biotechnology, crystal growth and alloy solidification, fluid dynamics, near-critical-point phenomena and technology. For the IML-2 STS-65 mission, ESA provided the following equipment: the Bubble, Drop and Particle Unit [BPDU], the Critical Point Facility [CPF], the Automated Protein Crystallisation Facility [APCF], and the Biorack. France provided RAMSES, and Germany contributed TEMPUS, NIZEMI, Biostack and QSAM. Useful images as follows: STILLS - launch, view of Earth with Spacelab in f/g, crew, crew inside Spacelab, very long shot of the Moon, pilot cleans flight deck window, taking photograph through window, Bolivia peninsula, Andes, Rio Grande river, central South America, rainforest cultivation, Rio de Janeiro, Island of Hispaniola, Bahamas, Saudi Arabia, Kenya/Ethiopian border, plankton bloom in the Red Sea, Himalayas with river, Melville Island off the west coast of Australia, sunglint over the Philippine Sea, terminator at crossing of night into day, Hawaii, hurricane Amelia, eye of Hurricane. FOOTAGE: crew suited up, leaving operations and checkout building, nice launch [interior and exterior shots], flight with condensation shock, nice SRB separation, nice external tank separation, entering Spacelab, crew working inside Spacelab, PAWS experiment, Biorack, fruitfly experiment, jellyfish, goldfish, killifish, newt/baby newt holding facility, Tempus furnace facility, oscillation of melting sample, critical point facility, Bubble Drop Particle Unit test cell, French electrophoresis unit, purging the Japanese electrophoresis unit of air, laser tracking headset, microgravity measuring device, TIPS news machine, astronaut <br>uses rinseless shampoo, exercising on ergometer, taking photos through window. Earthviews - Australian shark bay, Western Australia, hurricane over central S. America, city lights and meteorite, view of KSC, re-entry, shuttle landing, touchdown.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100676

**Title:** STS-65: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 07/08/1994

**Length:** 41

**Comments:** <plain>The second International Microgravity Laboratory mission [IML-2], aboard the Space Shuttle Columbia, was launched on July 8th, 1994. Provided by NASA, the Spacelab mission included several facilities provided by ESA. 82 experiments, from 15 different countries and involving about 200 scientists, were performed. These included research in the fields of human physiology, biology, biotechnology, crystal growth and alloy solidification, fluid dynamics, near-critical-point phenomena and technology. For the IML-2 STS-65 mission, ESA provided the following equipment: the Bubble, Drop and Particle Unit [BPDU], the Critical Point Facility [CPF], the Automated Protein Crystallisation Facility [APCF], and the Biorack. France provided RAMSES, and Germany contributed TEMPUS, NIZEMI, Biostack and QSAM.</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100679

**Title:** MSG and Metop 3-D graphics (models only)

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/08/1999

**Length:** 10

**Comments:** <plain>3-D graphics of the MSG and Metop satellite, against a black background. This is not finished graphics but renderings of newly developed models to show the detail and quality of the models.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** commercial



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**Pouction no.** 00100679

**Title:** MSG 3-D graphics (models only)

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/08/1999

**Length:** 3

**Comments:** <plain>3-D graphics of the MSG satellite, aagainst a black background. This is not finished graphics but renderings of newly developed models to show the detail and quality of the models.</plain>

**Keywords:** WEATHER SATELLITES,METEOSAT

**Shotlist:** <plain></plain>

**Use:** commercial

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**Pouction no.** 00100681

**Title:** STS-95 Landing

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 12/20/1998

**Length:** 13

**Comments:** <plain>Coverage of the landing of space shuttle Discovery Kennedy Space Centre after the November 7th, 1998 STS-95 mission. With control centre voiceover throughout, the video shows the final landing stages of the Shuttle, along with replays. </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100682

**Title:** STS-95 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 66

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. Crew included Senator John Glenn and ESA astronaut Pedro Duque. This post-flight presentation coverage starts with an awards ceremony, and follows on to include video and slide material. VIDEO as follows: shuttle on pad; crew suited-up; crew leave operations and checkout building and are strapped into the shuttle; exterior and interior views of the launch [including footage of boosters being released]; payload bay doors open; overhead view of payload bay; interior of Spacehab module; deployment of Petit Amateur Navy Satellite; John Glenn at human bone cell experiment; astronaut enters Spacehab module; molten metals experiment; Glenn at Aerogel production experiment; Duque performs suspended drop experiment in glovebox; various experimentation; robot arm grapples Spartan, satellite on air with Earth in background, release of Spartan; Spartan solar disc images; Glenn wears scalp electrodes and an instrumented vest; fish and cucumber seed experimentation opening portable freezer for plant samples; changing lithium hydroxide canister; Pedro writes letter on PC; retrieval of Spartan payload [inc. view down Canada arm]; crew eating; washing hair; astronauts exercise [inc. Duque and Glenn]; Glenn gets into bed; Earthview; crew filming through windows; crew reconfigure vehicle for re-entry; interior and exterior views of shuttle landing; crew disembark; STILLS: crew photo in orbit; launch; view over Spacehab with Earth background; Honduras; sediment from Hurricane Mitch; California; East Coast of United States; Hawaii; the Philippines; Cuba; view over Sahara; Japan, Mount Fuji; southern tip of Japan; shot taken by John Glenn during his 1962 Mercury mission; Chesapeake Bay, Long Island, Boston, Cape Cod; New Orleans, Mississippi River delta; </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100683

**Title:** ESRIN/ESTEC Resource Material

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100684

**Title:** Ariane 503: Foot Of Launcher rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 18

**Comments:** <plain>Pre-launch rocket on launchpad by day, various shots from ground; shots of control room</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100686

**Title:** 503 EAP Recuperation Rushes 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 3

**Comments:** <plain></plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100688

**Title:** 503 EAP Recuperation rushes 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 11

**Comments:** <plain></plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100689

**Title:** 503 rollout/transfer rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 22

**Comments:** <plain>CSG ground facilities entrance sign/ flags/ final assembly building, rollout of launcher, with shots of helicopter//</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100690

**Title:** 503: BAF rushes int

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>gvs' launcher in BAF; lift shots; ext shots BAF;</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100691

**Title:** 503: BAF rushes ext

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 10

**Comments:** <plain>ext views BAF, BAF with door open and pan up/down launcher, atmos shots onlookers/traffic</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100692

**Title:** 503 CSG Atmos. rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 22

**Comments:** <plain>gvs' CSG, esp. traffic, launcher model, inroad, signs  
Sound changes between two channels.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100693

**Title:** 503 EAP Onboard 16mm

**Type:** Original Material

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 11/30/1998

**Length:** 3

**Comments:** <plain>Showing booster separation from launcher  
POV.</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100694

**Title:** Ariane 503: ARD/Maqsat Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 00/00/00

**Length:** 83

**Comments** <plain>Arrival of MN Toucan vessel at CSG; unloading of components; transport to CSG; ARD moved into cleanroom and unpacked; preparation of ARD; ARD placed on base; Maqsat in container unloaded from plane. Sound CH2 has holes and is saturated in parts.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100696

**Title:** Ariane 503: Main Stage and Booster Rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length:** 101

**Comments** <plain>Arrival [by HM Toucan], unloading and transportation of launcher components to CSG; launcher raised upright and suspended in assembly building; close-ups of circuitry; launcher on towable platform; booster enters assembly building [from interior], strapped onto launcher; entry of other booster [from exterior], attached; classic low-angle view of launcher; close-ups of booster attachment. T/C JUMP</plain>

**Keywords** ARIANE 5,LAUNCHERS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100697

**Title:** Ariane 503: Real-Time Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 11/02/1998

**Length:** 73

**Comments:** <plain>Graphics which depict the flight path of Ariane 503, illustrating the deployment of the ARD and Maqsat payload; graphics which illustrate the launcher's path around the globe; </plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100698

**Title:** Ariane 503: Transfer BAF to ZL3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1998

**Length:** 31

**Comments:** <plain>Rushes of the transfer of the Ariane 503 launcher from the final assembly building [BAF] to the launchpad [ZL3].</plain>

**Keywords:** LAUNCHERS,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100699

**Title:** ARD: The Return rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 01/18/1998

**Length:** 24

**Comments:** <plain>Rushes of post-flight ARD, recorded at Aerospatiale Bordeaux. Include: container opened; ARD cover removed; various components inspected, cleaned; brace attached.</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100700

**Title:** ARD: The Return rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 01/18/1999

**Length:** 22

**Comments:** <plain>Rushes of post-flight ARD, recorded at Aerospatiale Bordeaux. Include: observation of external damage to ARD, ARD raised for examination of tiles, gvs' engineers with AR removal of panel</plain>

**Keywords** ARD

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100701

**Title:** ARD: The Return rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/18/1999

**Length:** 18

**Comments:** <plain>Rushes of post-flight ARD, recorded at Aerospatiale Bordeaux. Various close-ups of systems within ARD [inspection, thumbs-up]; gvs' ARD on stand</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100702

**Title:** ARD: The Return rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 22

**Comments:** <plain>Rushes of post-flight ARD, recorded at Aerospatiale Bordeaux. Includes: inspection of plates of ARD; 04:03:38:( i/v FR Breard [head of ARD programme]; 04:31:00:00 i/v GE FR de Brenne; de Brenne and Breard measure marks on tile of ARD; 04:21:20:00 good dolly in to ARD surface </plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100704

**Title:** Historical Parabolic Flights Footage 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 38

**Comments:** <plain>Telecined NARA b/w stock footage parabolic flights, 1950s?</plain>

**Keywords:** HISTORICAL MATERIAL,PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100705

**Title:** Historical Parabolic Flights Footage 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 48

**Comments:** <plain>Telecined b/w NARA stock footage of parabolic flight experiments. Includes liquid in glass containers, 2 men and woman take turns to float in microgravity, rodents, reflex testing, external views of plane, globules sucked into/released from tube. 1950s?</plain>

**Keywords:** HISTORICAL MATERIAL,PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100707

**Title:** Historical Parabolic Flights Footage 3

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 84

**Comments:** <plain>Telecined NARA b/w stock footage. Includes men planing nose of plane, customising plane for parabolic flight testing engines of plane, exterior views plane in flight [including vapour trail footage]// WADS film report on the physiology of rocket flight; mice put into container for experiment, monkey strapped into container for nosecone (rocket, physiological testing equipment, rocket charged with nosecone containing monkey and launched, rocket POV flight, mice in microgravity, helicopter, monkey removed from landed capsule, gvs' experimental mice and monkeys; voice feature on Russian dogs launched into stratosphere, including Laika. [1950s]</plain>

**Keywords:** PARABOLIC FLIGHTS,HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100708

**Title:** ARD On-Board Camera Recordings

**Type:** Original Material

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/22/1998

**Length:** 18

**Comments:** <plain>Locations of the ARD On-Board Camera, from the opening of the breaking parachute until after the landing in the Pacific Ocean. The camera looked skywards to monitor the parachute operations. The descent on the parachute lasts for about 15 minutes. The recordings were transferred from S-VHS to Betacam/SP, by Aerospatiale.</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100708

**Title:** ARD On-Board Camera Recordings

**Type:** Original Material

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/22/1998

**Length:** 18

**Comments:** <plain>Locations of the ARD On-Board Camera, from the opening of the breaking parachute until after the landing in the Pacific Ocean. The camera looked skywards to monitor the parachute operations. The descent on the parachute lasts for about 15 minutes. The recordings were transferred from S-VHS to Betacam/SP, by Aerospatiale.</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100708

**Title:** ARD On-Board Camera Recordings

**Type:** Original Material

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/22/1998

**Length:** 18

**Comments:** <plain>Locations of the ARD On-Board Camera, from the opening of the breaking parachute until after the landing in the Pacific Ocean. The camera looked skywards to monitor the parachute operations. The descent on the parachute lasts for about 15 minutes. The recordings were transferred from S-VHS to Betacam/SP, by Aerospatiale.</plain>

**Keywords:** ARD

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00100709

**Title:** STS-88: Flight Day 5 Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 12/08/1998

**Length:** 25

**Comments:** <plain>The STS-88 Shuttle mission involved the joining of the first two elements of the International Space Station - the Russian Zarya module and the American node Unity. On December 10th, 1998, Russian cosmonaut /mission specialist Sergei Krikalev and mission commander Robert Cabana opened the hatch between Endeavour and the first element of the International Space Station. Footage as follows: EVA astronauts install foot restraint and toolrack on the end of the robot arm; connection of external cables; NASA mission control; exterior view opening of hatch into payload bay; attachment of footrest to robot arm; more footage connecting cables; astronaut suiting-up.</plain>

**Keywords:** SPACE STATIONS,NASA GENERAL,MANNED SPACEFLI

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100710

**Title:** STS-88: Flight Day 7 Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 12/10/1998

**Length:** 28

**Comments:** <plain>The STS-88 Shuttle mission involved the joining of the first two elements of the International Space Station - the Russian Zarya module and the American node Unity. on December 10th, 1998, Russian cosmonaut /mission specialist Sergei Krikalev and mission commander Robert Cabana opened the hatch between Endeavour and the first element of the International Space Station. Footage as follows: astronauts wear liquid cooling garments; airlock hatch opens; astronauts lay communication cables between the two modules; various EVA maintenance, including unspooling of antennae, nice shots of astronauts on outside of Station; NASA mission control; astronauts suited-up; emerging from airlock hatch into payload bay; general views of EVA; crew inside shuttle flight deck.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,INTERNATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100711

**Title:** STS-88: Flight Day 8 Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** English

**Production Date** 12/11/1998

**Length** 33

**Comments** <plain>The STS-88 Shuttle mission involved the joining of the first two elements of the International Space Station - the Russian Zarya module and the American node Unity. on December 10th, 1998, Russian cosmonaut /mission specialist Sergei Krikalev and mission commander Robert Cabana opened the hatch between Endeavour and the first element of the International Space Station. Footage as follows: astronauts open hatch and enter Pressurised Mating Adapter 2; astronauts open hatch and enter Unity; astronaut open hatch from Pressurised Mating Adapter 1 and enter Zarya; crew conference from Zarya; laying air ducting; installation of communications module; computer screen showing crew link to International Space Station Flight Control Room in Houston; removal of faulty battery charging unit; crew interview from Unity; more footage of opening hatches and entering various modules, installation of communication systems; in-flight maintenance of faulty battery system; crew conference; general views of interior of modules </plain>

**Keywords** SPACE STATIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100715

**Title:** STS-91 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language**

**Production Date** 00/00/00

**Length** 0

**Comments** <plain></plain>

**Keywords** SHUTTLE MISSIONS,MANNED SPACEFLIGHT,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100715

**Title:** STS-91 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language**

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT,NASA GE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100716

**Title:** STS-88: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/29/1999

**Length:** 34

**Comments:** <plain>The STS-88 shuttle mission involved the joining of the first two elements of the International Space Station - the Russian Zarya module and the American node Unity. On December 10th, 1998, Russian cosmonaut /mission specialist Sergei Krikalev and mission commander Robert Cabana opened the hatch between Endeavour and the first element of the International Space Station. This post-flight summary contains the following images: Proton rocket roller out and raised upright, launch of Zarya; Unity mission crew leave operations and checkout building, shuttle [Endeavour] night launch, flight, SRB separation [including view from inside flight deck]; external tank falls over Pyrenees; opening of payload bay doors, testing of robotic arm, closing of snares; extraction of Unity from payload bay, docked with shuttle; approach of Zarya, grapple [exterior views, interior views, view through camera]; Zarya and Unity mated; astronauts suit up and pass into airlock; exterior view of hatch opening, astronauts pass into payload bay; EVA astronaut connects cables between Unity and Zarya, connects handrails etc.; installation of communications systems; manual deployment of antennae; astronauts open hatch and pass from Orbiter docking station into Pressurised Mating Adapter 2; open hatch and pass into Unity; crew open hatch and pass into Zarya; installation of interior section of the communications system; replacement of faulty unit in battery system; removal of reinforcing structures [put in for protection during launch]; tour from Endeavour flight deck to mid-deck, then through various components of the Space Station; various EVA; flight testing of rocket backpack; undocking of Endeavour from ISS, views of Station from flyaround; deployment of Argentinian satellite; crew eating, exercising [using ergometer], using laptop, juggling, water globule, rehydrating and eating spaghetti, deployment of another 'hit hiker' satellite; de-orbit suits on hooks, closing of payload bay doors, nice space sunset; inside flight deck during re-entry, view through pilot's monitor; external and internal views of night landing at Kennedy Space Centre; nice view on runway with lights of support crew in background; welcome committee of Apollo astronauts, crew shot in front of shuttle crew patch; animation of further stages in assembly of the ISS.</plain>

**Keywords:** SPACE STATIONS, SHUTTLE MISSIONS, MANNED SPACE

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100717

**Title:** STS-86: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 01/20/1999

**Length:** 19

**Comments:** <plain>Launched on September 25th 1998, the STS-86 mission to dock with Russian space station Mir included the CNES astronaut Jean-Loup Chretien. The space shuttle Atlantis docked with Mir two days after the launch. David V was transferred to Mir for a projected four-month stay, and Michael Foale was retrieved. The mission landed successfully on October 6th, 1998. Footage as follows: crew leaves operations and checkout building; astronauts suited-up and strapped into seats; launch, view from inside cockpit at ignition; SRB separation [including view from inside cockpit] interior and exterior views firing thrusters on approach to Mir view of Spacehab in payload bay; view of Mir through centreline camera; docking; opening hatch, astronauts shake hands and embrace, attitude control computer passed through hatch; crews eat fruit, bananas; installation of various replacement equipment; solar panels, damaged by Progress Mir flythrough; suited-up astronauts ready for EVA; astronauts perform EVA; Scott Parazynski with non-retract tether due to faulty mechanism; testing deployment of safel backpack. Astronauts hug each other goodbye, closure of hatch; photographing collision site on Mir; various shots of Mir; spinning pliers in microgravity, playing keyboard; thunderstorms and cities; interior and exterior views of descent and landing; </plain>

**Keywords:** SPACE STATIONS,SHUTTLE MISSIONS,MANNED SPAC

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100718

**Title:** Envisat: Assembly Timelapse

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 02/01/1999

**Length:** 8

**Comments:** <plain>Time-lapse footage of the construction of ESA's Envisat satellite at Matra Marconi Space, Bristol.</plain>

**Keywords:** ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100719

**Title:** Perseus: Soyuz Approaches Mir

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 02/22/1999

**Length:** 11

**Comments:** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a six month stay aboard the Russian space station Mir. This mission, named Perseus, is the fifth French-Russian mission to date. This cassette contains footage, taken from the Russian Soyuz capsule, of the approach to the docking port of Mir.</plain>

**Keywords:** SPACE STATIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100721

**Title:** NASA Sea Rescue Training

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 10

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100722

**Title:** Perseus: Star City rushes 1

**Type:** Rushes

**Category:**

**Language:**

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100723

**Title:** Perseus: Star City rushes 2

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100724

**Title:** Perseus: Star City rushes 3

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100725

**Title:** Perseus: Star City rushes 4

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100726

**Title:** Perseus: Star City rushes 5

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100727

**Title:** Perseus: Star City rushes 7

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100728

**Title:** Perseus: Star City rushes 6

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100729

**Title:** Perseus: Star City rushes 8

**Type:** Rushes

**Category:**

**Language**

**Production Date** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100730

**Title:** ESA Future Missions Graphics 1

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/27/1998

**Length:** 7

**Comments:** <plain>Graphics of ESA's future Earth observation missions. </plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100730

**Title:** ESA Future Missions Graphics 1

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/27/1998

**Length:** 7

**Comments:** <plain>Graphics of ESA's future Earth observation missions. </plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100731

**Title:** ASAR/ Envisat 1 3D graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 6

**Comments:** <plain>various 3D animations of the Envisat satellite and its ASAR instrument</plain>

**Keywords:** ENVISAT,REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100732

**Title:** Metop and GOME graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 01/08/1999

**Length:** 3

**Comments:** <plain>3D graphics of the Metop satellite and its GOME instrument, against a black background. This is not finished graphics, but renderings of newly-developed models to show the detail and quality of the models.</plain>

**Keywords:** WEATHER SATELLITES

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100733

**Title:** NASDA launch footage 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 00/00/00

**Length:** 54

**Comments:** <plain>NASDA footage of a H2A rocket launch [strict production-specific clearance]. Includes onboard camera, real-time and slow-time recordings, separation and satellite deployment graphics, satellite cleanroom, launch control room, </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100734

**Title:** NASDA launch footage 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length:** 48

**Comments:** <plain>NASDA footage of a H2A rocket launch [strict production-specific clearance]. Includes: rollout and launch [with control room], graphics of separation and satellite deployment, aerial views of launch site. </plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100735

**Title:** ESA Future Missions Graphics 2

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/28/1998

**Length:** 1

**Comments:** <plain>Graphics of ESA's future Earth observation missions.</plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100735

**Title:** ESA Future Missions Graphics 2

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 08/28/1998

**Length:** 1

**Comments:** <plain>Graphics of ESA's future Earth observation missions. This tape contains an animation of the GOCE Earth Gravity Scan</plain>

**Keywords:** REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100736

**Title:** 1987 Ascan/Ejection Training

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** ME only

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>NASA Space Cadets training at the Valance Air Force base. Includes: lecture on the use of parachutes; learning how to fall; harness training; drag training; parascending; bailout training.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100738

**Title:** Ariane 503: EPC Separation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 01/11/1998

**Length:** 1

**Comments:** <plain>[from VHS] onboard recordings of the main stage separation of Ariane 503.</plain>

**Keywords** LAUNCHERS,ARIANE 5

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100739

**Title:** NASA: Visitor Centre

**Type:** Miscellaneous

**Category:** miscellaneous

**Language** M/E only

**Production Date** 00/00/00

**Length:** 5

**Comments:** <plain>Contains footage of John Glenn's historic spacefligh [1962's 'Friendship 7'] and a music clip showing a shuttle launch and various EVA footage.</plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100740

**Title:** OU/ Beagle 11 Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 03/10/1999

**Length:** 35

**Comments:** <plain>The Beagle 11 lander for ESA's Mars Express mission [due for launch in 2003] is being developed by the Open University, Great Britain. Tape contains footage of a model of the lander, plus an interview with Professor Pillinger.</plain>

**Keywords** SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100741

**Title:** ESTEC Exterior Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 10

**Comments:** <plain>exterior shots of ESTEC</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100744

**Title:** Mars Express CAD Animations

**Type:** Rushes

**Category:** miscellaneous

**Language:** Mute

**Production Date:** 03/12/1999

**Length:** 36

**Comments:** <plain>Taken at Matra Marconi space in Toulouse, these screen outputs illustrate computer-aided design models of t Mars Pathfinder probe in orbit. </plain>

**Keywords:** SPACE SCIENCE,MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100745

**Title:** Mars Express Matra Marconi rushes 1

**Type:** Rushes

**Category:** Interviews

**Language:** French and English

**Production Date:** 02/12/1999

**Length:** 31

**Comments:** <plain>Intervies as follows: Michel Bouffard, director Matra Marconi's Science and Earth Observation programme [GB, FR]; Phillippe Moulinier, Matra Marconi's Mars Express Programme Project Manager [GB, FR]</plain>

**Keywords:** SPACE SCIENCE,MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100745

**Title:** Mars Express Matra Marconi rushes 2

**Type:** Rushes

**Category:** Interviews

**Language** French and English

**Production Date** 02/12/1999

**Length:** 34

**Comments** <plain>Contains: interview with Phillippe Moulinier, Matra Marconi's Mars Express Programme Project Manager [FR]; demonstration of CAD graphics on screen, demonstrator in f/g, audience [GB and FR]; close-ups of graphics; Matra Marconi board meeting [FR, GB]. </plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100745

**Title:** Mars Express Matra Marconi rushes 3

**Type:** Rushes

**Category:** Interviews

**Language** French and English

**Production Date** 02/12/1999

**Length:** 17

**Comments** <plain>Ruhes shot at Matra Marconi, Toulouse. CAD screer designers work at terminals; exterior shots Matra building.</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100746

**Title:** Mars Express Graphics 2

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 01/03/1999

**Length:** 4

**Comments:** <plain>Graphics for the forthcoming Mars Express mission [as used in the Mars Express VNR, 000816, with added sound effects]. Contains: [footage of] Soyuz rollout and night launch; Mars Express leaves the Earth; Mars Express travels from Earth to Mars; deployment of lander; lander through Mars atmosphere, parachutes to surface; orbiter in orbit around Mars; deployment of lander, doors open, camera deployed; sampler takes sample from surface, analysis; deployment of sampling tube, analysis of contents; spinning Mars; orbiter deploys radar, beam to planet's surface, beams reach surface, pan down to subsurface water; surface flyover, down crater to water.</plain>

**Keywords:** MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100746

**Title:** Mars Express Graphics 1

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 01/03/1999

**Length:** 3

**Comments:** <plain>Graphics for the forthcoming Mars Express mission [as used in the Mars Express VNR, 000816, with added sound effects]. Contains: rotating Mars; Mars Express leaves the Earth; arrival Mars Express, lander deployment, Mars Express in orbit around Mars; 2D Mars Express around the Sun, Earth; Mars Express orbiter sends radar signals to planet; radar signals reach surface, pan down to reach subsurface water; caption generation, flyover surface, down crater to find water.</plain>

**Keywords:** MARS EXPRESS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100749

**Title:** Mars Express Carlier Rushes

**Type:** Rushes

**Category:** Interviews

**Language** French and English

**Production Date** 10/03/1999

**Length:** 7

**Comments:** <plain>Interview on the Mars Express project with Armand Carlier, Matra Marconi's Chief Executive Officer. </plain>

**Keywords** MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100749

**Title:** Mars Express Carlier Rushes

**Type:** Rushes

**Category:** Interviews

**Language** French and English

**Production Date** 10/03/1999

**Length:** 7

**Comments:** <plain>Interview on the Mars Express project with Armand Carlier, Matra Marconi's Chief Executive Officer. </plain>

**Keywords** MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100751

**Title:** Mars Compilation

**Type:** Miscellaneous

**Category:** miscellaneous

**Language** English

**Production Date** 00/00/00

**Length** 48

**Comments** <plain>A compilation of material concerned with missions to Mars. Contains: HRSC Earth flyover material [DLR]; Mars Global Surveyor animated documentary [NASA JPL]; Mars Pathfinder animated documentary [NASA]; Mars, The Movie animated documentary [NASA JPL]; Mars Precision Landing animation [NASA JPL]; Mars '94 3D imaging from HRSC/WAOSS, preview animations [UCL, DLR]; Tithonium and Ius Chasma, The Movie [UCL]; Mars Pathfinder images [NASA]; L.A. The Movie, Landsat flyover of Los Angeles [NASA/JPL].</plain>

**Keywords** SPACE SCIENCE,REMOTE SENSING,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100752

**Title:** Mars Express: Bonet/Schmidt Interviews

**Type:** Rushes

**Category:** Interviews

**Language** English and German

**Production Date** 03/16/1999

**Length** 33

**Comments** <plain>Interviews regarding the Mars Express project. With Rudolph Schmidt, ESA Mars Express Project Manager [German/English]; Roger Bonet, Director of ESA's Science Programme.</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100754

**Title:** Haignere: Interview Rushes

**Type:** Rushes

**Category:** Interviews

**Language** English

**Production Date** 00/00/00

**Length** 25

**Comments** <plain>ESA astronot Jean-Pierre Haignere blasted off from the Baikonur Cosmodrome on February 20th, 1999, bound f a six month stay aboard the Russian space station Mir.This mission, named Perseus, is the fifth French-Russian missioi to date. Background footage - Claudie Andre-Deshays is shown various spacecraft models; interview in English with Haignere; </plain>

**Keywords** MANNED SPACEFLIGHT

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100755

**Title:** STS-95 Mission Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 63

**Comments:** <plain>Lasting from October 29th to November 7th 1998, the STS-95 mission was the 25th flight of Space Shuttle Discovery and the 94th mission flown since the start of the Space Shuttle programme in April 1981. Crew included Senator John Glenn and ESA astronaut Pedro Duque. Video contains the following images: launcher on pad; astronauts eating breakfast; suited-up in operations and checkout room; astronauts strapped into shuttle; launch, shots of astronauts inside shuttle during launch; onboard footage separation of solid boosters and main stage; opening of payload bay doors, views of Earth; Duque and Glenn in-flight, various shots satellite deployment; overhead view payload bay; IFFD drop surface tension experiment; crew perform experiments, including Duque and Glenn; Duque performs biomedical experiment; tracking shot along length shuttle by camera on robot arm; release of Spartan satellite [view through atrm]; various footage exercising; capture of Spartan satellite; test of Orbiter vision system, by lifting Spartan out of payload bay using arm; more in-flight experimentation, exercising; eating; crew experimentation, including Duque; water crystals in space, from dump of supply water; crew put on suits for re-entry; external and internal views re-entry, landing; crew emerge from vehicle, walk around shuttle. </plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100756

**Title:** Artemis at Estec

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/19/1999

**Length:** 10

**Comments:** <plain>[ESA has broadcast rights]. Cleanroom footage of dish deployment testing and various cleanroom operations at ESTEC by Alenia. </plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100757

**Title:** Sheppard Plays Golf

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 00/00/00

**Length** 3

**Comments** <plain>NASA atronaut Alan Sheppard hits a golf ball on the Moon.</plain>

**Keywords** NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100760

**Title:** Spacelab Bremen Merbold/Reiter Rushes

**Type:** Rushes

**Category:** Interviews

**Language** English and German

**Production Date** 04/15/1999

**Length** 22

**Comments** <plain>Filmed inside Spacelab, showing at the Space Academy, Bremen. Interview with German ESA astronaut Thomas Reiter [English, German] and Ulf Merbold [English, German] on the subject of Spacelab and European manned spaceflight.</plain>

**Keywords** SPACELAB

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100761

**Title:** STS-88: Flight Day 1,2,3 Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>The STS-88 Shuttle mission involved the joining of the first two elements of the International Space Station - the Russian Zarya module and the American node Unity. On December 10th, 1998, Russian cosmonaut mission specialist Sergei Krikalev and mission commander Robert Cabana opened the hatch between Endeavour and the first element of the International Space Station. This video contains highlights from flight day 1,2 and 3. It includes: night shuttle on launcher with control room cutaways; pre-launch breakfast; crew suited-up leave operations and checkout building; crew enter shuttle; night launch with replays; inter-shot shuttle crew after SRB separation; main tank falls towards Earth [from shuttle]; payload bay doors open; shuttle flythrough; Canada arm; end of arm docks with Unity in payload bay; Unity lifted from payload bay; Unity docked to shuttle; interior shots of crew during robot arm operation; opening of hatch, transfer of items; Zarya in distance, module is grappled [with onboard shots of robot arm operation]; docking of Zarya and Unity. </plain>

**Keywords:** SPACE STATIONS,NASA GENERAL,MANNED SPACEFLI

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100763

**Title:** Ariane 4: Vol. 117 Technical Films 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 04/10/1999

**Length:** 34

**Comments:** <plain>The vol. 117 launch of Ariane 4, on April 3rd, 1999 carried the Indian telecommunications and meteorology satellite Insat into orbit. This video contains various technical footage of the launch, recorded at different speeds.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100764

**Title:** Ariane 4: Selected Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/04/1999

**Length:** 0

**Comments:** <plain></plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100765

**Title:** Ariane 4: vol. 117 Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 56

**Comments:** <plain>The vol. 117 launch of Ariane 4, on April 3rd, 1999 carried the Indian telecommunications and meteorology satellite Insat into orbit. This video contains selected rushes of the whole campaign - from arrival of launcher componer to the launch itself. </plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100766

**Title:** Brussels Ministerial Conference 95 rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/18/1995

**Length:** 73

**Comments:** <plain>Coverage of the Brussels Ministerial Conference 1995.</plain>

**Keywords:** HISTORICAL MATERIAL,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100766

**Title:** Brussels Ministerial Conference 95 rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/19/1995

**Length:** 38

**Comments:** <plain>Coverage of the Brussels Ministerial Conference 1995.</plain>

**Keywords:** HISTORICAL MATERIAL,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100766

**Title:** Brussels Ministerial Conference 95 rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1995

**Length:** 13

**Comments:** <plain>Coverage of the Brussels Ministerial Conference 1995.</plain>

**Keywords:** HISTORICAL MATERIAL,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100766

**Title:** Brussels Ministerial Conference 95 rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/18/1995

**Length:** 25

**Comments:** <plain>Coverage of the Brussels Ministerial Conference 1995.</plain>

**Keywords:** HISTORICAL MATERIAL,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100766

**Title:** Brussels Ministerial Conference 95 rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1995

**Length:** 53

**Comments:** <plain>Coverage of the Brussels Ministerial Conference 1995.</plain>

**Keywords:** HISTORICAL MATERIAL,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100766

**Title:** Brussels Ministerial Conference 95 rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/20/1995

**Length:** 3

**Comments:** <plain>Coverage of the Brussels Ministerial Conference 1995.</plain>

**Keywords:** HISTORICAL MATERIAL,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100767

**Title:** Gerhard Thiele: Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1991

**Length:** 19

**Comments:** <plain>The German astronaut Gerhard Thiele was selected as back-up payload specialist for the D-2 Spacelab mission 1992, and a year later participated in the mission as Crew Interface Coordinator. These tapes contain rushes of Thiele training on a biomedical experiment.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100767

**Title:** Gerhard Thiele: Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1991

**Length:** 23

**Comments:** <plain>The German astronaut Gerhard Thiele was selected as back-up payload specialist for the D-2 Spacelab mission 1992, and a year later participated in the mission as Crew Interface Coordinator. These tapes contain rushes of Thiele training on anthorack and biolaboratory experiments.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100767

**Title:** Gerhard Thiele: Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1991

**Length:** 20

**Comments:** <plain>The German astronaut Gerhard Thiele was selected as back-up payload specialist for the D-2 Spacelab mission 1992, and a year later participated in the mission as Crew Interface Coordinator. These tapes contain rushes of Thiele training on HOLOP experiment.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100767

**Title:** Gerhard Thiele: Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1991

**Length:** 18

**Comments:** <plain>The German astronaut Gerhard Thiele was selected as back-up payload specialist for the D-2 Spacelab mission 1992, and a year later participated in the mission as Crew Interface Coordinator. These tapes contain rushes of Thiele training on ROTEX experiment.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100767

**Title:** Gerhard Thiele: Rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1991

**Length:** 20

**Comments:** <plain>The German astronaut Gerhard Thiele was selected as back-up payload specialist for the D-2 Spacelab mission 1992, and a year later participated in the mission as Crew Interface Coordinator. These tapes contain rushes of Thiele training on TOMEX and Aerotrim experiments.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100768

**Title:** Gerhard Thiele: Compiled Rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1991

**Length:** 6

**Comments:** <plain>The German astronaut Gerhard Thiele was selected as back-up payload specialist for the D-2 Spacelab mission 1992, and a year later participated in the mission as Crew Interface Coordinator. These tapes contain rushes of Thiele training on biomedical, anthorack, biolaboratory, HOLOP, ROTEX, TOMEX, Aerotrim.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100768

**Title:** Gerhard Thiele: Compiled Rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1991

**Length:** 6

**Comments:** <plain>The German astronaut Gerhard Thiele was selected as back-up payload specialist for the D-2 Spacelab mission 1992, and a year later participated in the mission as Crew Interface Coordinator. These tapes contain rushes of Thiele training on biomedical, anthorack, biolaboratory, HOLOP, ROTEX, TOMEX, Aerotrim.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast



---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/11/1999

**Length:** 40

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This video contains rushes as follows: opening speech by Lord Sainsbury; speech by Antonio Rodota; further speech by L Sainsbury; audience cutaways throughout.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/11/1999

**Length:** 40

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This video contains rushes as follows: Council Meeting banner; ministers' group photo/video; interview Lord Sainsbury; ext general views building.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/11/1999

**Length:** 36

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This video contains rushes as follows: general views audience; vario Ministers speak; </plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/11/1999

**Length:** 29

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This video contains rushes as follows: ESA's Mr Reuter makes statement and answers questions; general views Ministers conference; general views Ministers outside building</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/11/1999

**Length:** 9

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This video contains rushes as follows: press conference with Jean-Jacques Dordain, ESA Director of Strategy, with crowd cutaways.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/12/1999

**Length:** 35

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. This video contains rushes of the French, Spanish and Belgian delegations.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/12/1999

**Length:** 39

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. Rushes as follows: various ministers speak; delegates round table; various atmos,</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/12/1999

**Length:** 0

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. Rushes as follows: Belgian delegation sit at table; Ministers arrive, external general views; general views of the conference. Time code jumps throughout.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100770

**Title:** Brussels Conference 1999: Rushes 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/12/1999

**Length:** 18

**Comments:** <plain>ESA's Brussels conference, a meeting of Europe's space ministers, was held on May 11-12 1999. Rushes as follows: Lord Sainsbury's closing speech, with various cutaways Ministers, additional comments by Antonio Rodot; comments from German Minister.</plain>

**Keywords:** HISTORICAL MATERIAL

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100771

**Title:** Ministers Promo 1999

**Type:** Miscellaneous

**Category:** documentary,general public

**Language:** M/E only

**Production Date:** 04/30/1999

**Length:** 5

**Comments:** <plain>A highly stylised visual summary of ESA's programmes, including Ariane, navigation and communications satellites, astronomy and planetary science, the International Space Station, Earth Observation.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100771

**Title:** Ministers Promo 1999

**Type:** Miscellaneous

**Category:** documentary,general public

**Language** M/E only

**Production Date** 04/30/1999

**Length:** 5

**Comments** <plain>A highly stylised visual summary of ESA's programmes, including Ariane, navigation and communications satellites, astronomy and planetary science the International Space Station, Earth Observation.</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100771

**Title:** Ministers Promo 1999 [MUSIC]

**Type:** Miscellaneous

**Category:** documentary,general public

**Language** M/E only

**Production Date** 04/30/1999

**Length:** 5

**Comments** <plain>A highly stylised visual summary of ESA's programmes, including Ariane, navigation and communications satellites, astronomy and planetary science the International Space Station, Earth Observation. WITH MUSIC</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100771

**Title:** Ministers Promo 1999 [MUSIC]

**Type:** Miscellaneous

**Category:** documentary,general public

**Language** M/E only

**Production Date** 04/30/1999

**Length:** 5

**Comments** <plain>A highly stylised visual summary of ESA's programmes, including Ariane, navigation and communications satellites, astronomy and planetary science the International Space Station, Earth Observation. WITH MUSIC</plain>

**Keywords** ESA GENERAL

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100772

**Title:** Hurricane Mitch Graphics

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 05/01/1999

**Length:** 3

**Comments** <plain>1998 saw central America devastated by the effects Mitch, the most deadly hurricane in two centuries. The disaster claimed 11,000 lives in Honduras and Nicaragua. Such damage could be limited in the future by the intrudctio of early-warning systems, such as those proposed by ESA/ Living Planet programme. This tape contains specially-commissioned graphics concerned with Hurricane Mitch.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100773

**Title:** Hurricane Mitch Graphics

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 05/01/1999

**Length** 2

**Comments** <plain>1998 saw central America devastated by the effects of Hurricane Mitch, the most deadly hurricane in two centuries. The disaster claimed 11,000 lives in Honduras and Nicaragua. Such damage could be limited in the future by the introduction of early-warning systems, such as those proposed by ESA's Living Planet programme. This cassette contains specially-commissioned graphics concerned with Hurricane Mitch.</plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100774

**Title:** STS-68: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** Mute

**Production Date** 10/24/1994

**Length** 16

**Comments** <plain>The space shuttle Endeavour was launched on the STS-68 mission on September 30th, 1994. The second flight that year [after April's STS-59 mission] of the Space Radar Laboratory Earth observation package, the mission lasted 16 days. Crew were: Michael Baker, Terence Willcutt, Thomas Jones, Daniel Bursch, Peter Wisoff and Steven Smith. This video contains highlights of the mission, including: crew around table for pre-launch meal, suited-up during launch, SRB separation, external tank falls back to Earth, crew performs various onboard tasks, nice views of volcano from orbit with radar image; nice views of the Earth from orbit; crew member drinks floating globule; crew member plays with toy shuttle; remote-sensed image of mountainous terrain; re-entry, plasma flashes through window; shuttle lands.</plain>

**Keywords** SHUTTLE MISSIONS,REMOTE SENSING,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100774

**Title:** STS-68: Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 10/24/1994

**Length:** 16

**Comments:** <plain>The space shuttle Endeavour was launched on the STS-68 mission on September 30th, 1994. The second flight that year [after April's STS-59 mission] of the Space Radar Laboratory Earth observation package, the mission lasted 1 days. Crew were: Michael Baker, Terence Willcutt, Thomas Jones, Daniel Bursch, Peter Wisoff and Steven Smith. This video contains highlights of the mission, including: crew around table for pre-launch meal, suited-up dawn launch, SRB separation, external tank falls back to Earth, crew performs various onboard tasks, nice views volcano from orbit with radar image; nice views of the Earth; crew member drinks floating globule; crew member plays w toy shuttle; remote-sensed image of mountainous terrain; re entry, plasma flashes through window; shuttle lands.</plain>

**Keywords:** SHUTTLE MISSIONS,REMOTE SENSING,NASA GENERA

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100777

**Title:** Ariane 502: CVI rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 10/30/1997

**Length:** 46

**Comments:** <plain>Amateur video of the CVI centre at CSG, shot during the launch and flight of Ariane 503.</plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100780

**Title:** Ensam car manufacture

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>Images of composite car manufacture at Ensam.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100781

**Title:** Polymerisation

**Type:** Selected Rushes

**Category:** Music clip

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 2

**Comments:** <plain>Footage and diagrams to illustrate the industrial process of polymerisation.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100782

**Title:** Colcamp Parabolic Flights 1992 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/1992

**Length:** 8

**Comments:** <plain>Rushes of the Colcamp parabolic campaign of 1992. Contains footage of setting up experiments.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100782

**Title:** Colcamp Parabolic Flights 1992 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/1992

**Length:** 34

**Comments:** <plain>Rushes of the Colcamp parabolic campaign of 1992. Images include: experimenters float upside-down in microgravity; general views of experimenters; post-flight c line-up.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100782

**Title:** Colcamp Parabolic Flights 1992 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/1992

**Length:** 28

**Comments:** <plain>Rushes of the Colcamp parabolic campaign of 1992. Including: shots of plane; crew enter plane; ESA logo on uniform; fuelling of plane; Wubbo Ockels helps to set up experiments; in-flight footage.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100782

**Title:** Colcamp Parabolic Flights 1992 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/1992

**Length:** 34

**Comments:** <plain>Rushes of the Colcamp parabolic campaign of 1992. various in-flight experimentation, featuring Wubbo Ockels - and including the 'shoe clamp' experiment.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100782

**Title:** Colcamp Parabolic Flights 1992 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/1992

**Length:** 24

**Comments:** <plain>Rushes of the Colcamp parabolic campaign of 1992, featuring Wubbo Ockels - various in-flight experimentation, crew seated, view through window, crew line-up in airfield plane; debriefing, including Ockels and ESA astronaut Jean Francois Clervoy; experimenters explain equipment;</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100782

**Title:** Colcamp Parabolic Flights 1992 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/1992

**Length:** 30

**Comments:** <plain>Rushes of the Colcamp parabolic campaign of 1992, featuring Wubbo Ockels - includes description of experimenter general views in-flight, experimentation. </plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100782

**Title:** Colcamp Parabolic Flights 1992 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/1992

**Length:** 27

**Comments:** <plain>Rushes of the Colcamp parabolic campaign of 1992 general views of fire research experiment floating in microgravity and testing shoe-clamp, ESA astronaut Jean-Francois Clervoy demonstrates combustion in microgravity with a cigarette lighter, in-flight interview with Clervoy, explanation of University of Munich's space chair.</plain>

**Keywords:** PARABOLIC FLIGHTS

**Shotlist:** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100783

**Title:** Mars: 4 Billiards graphics

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 06/23/1999

**Length** 3

**Comments** <plain>Graphics commissioned for the Bourget 1999, as follows: rotating Mars; rain and lightning on Mars; surface water recedes</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100783

**Title:** Mars: 4 Billiards graphics

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 06/23/1999

**Length** 3

**Comments** <plain>Graphics commissioned for the Bourget 1999, as follows: rotating Mars; rain and lightning on Mars; surface water recedes</plain>

**Keywords** SPACE SCIENCE,MARS EXPRESS

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100784

**Title:** Bourget '99: Central Screen

**Type:** Original Material

**Category:** Graphics

**Language** M/E only

**Production Date** 06/16/1999

**Length:** 7

**Comments** <plain>Made for display on the central screen of le Bourget [Paris Airshow]1999, this graphic illustrates the many face of ESA's Earth Observation programme. Organised into the following subjects: sea bed relief; tides; El Nino; ozone layer; ocean colour; aerosols; vegetation; aYear of Weather; global weather; Hurricane Mitch; high resolution Earth images; monitoring of volcanic eruptions. </plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100784

**Title:** Bourget '99: Central Screen

**Type:** Original Material

**Category:** Graphics

**Language** M/E only

**Production Date** 06/16/1999

**Length:** 7

**Comments** <plain>Made for display on the central screen of le Bourget [Paris Airshow]1999, this graphic illustrates the many face of ESA's Earth Observation programme. Organised into the following subjects: sea bed relief; tides; El Nino; ozone layer; ocean colour; aerosols; vegetation; aYear of Weather; global weather; Hurricane Mitch; high resolution Earth images; monitoring of volcanic eruptions. </plain>

**Keywords** REMOTE SENSING

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100785

**Title:** Mars Express: Bourget Presentation

**Type:** Original Material

**Category:** miscellaneous

**Language** Mute

**Production Date** 00/00/00

**Length:** 3

**Comments:** <plain>Due for launch in 2003, ESA's Mars Express mission is the subject of this presentation. All aspects of the mission are covered using captioned graphics.</plain>

**Keywords** MARS EXPRESS,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100785

**Title:** Mars Express: Bourget Presentation

**Type:** Original Material

**Category:** miscellaneous

**Language** Mute

**Production Date** 00/00/00

**Length:** 3

**Comments:** <plain>Due for launch in 2003, ESA's Mars Express mission is the subject of this presentation. All aspects of the mission are covered using captioned graphics.</plain>

**Keywords** MARS EXPRESS,SPACE SCIENCE

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100787

**Title:** Ariane 5: Promotional Film '99

**Type:** Miscellaneous

**Category:** miscellaneous

**Language** M/E only

**Production Date** 01/05/1999

**Length:** 4

**Comments:** <plain>A highly graphic, layered sequence commissioned to promote the Ariane 5 launcher [1'10"], followed by a feature style clip in widescreen format on the same subject [3'10"].</plain>

**Keywords** ARIANE 5

**Shotlist** <plain></plain>

**Use:** no use



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**Pouction no.** 00100790

**Title:** Eclipse 1999 graphics VNR

**Type:** Original Material

**Category:** Graphics

**Language:** English

**Production Date:** 00/00/00

**Length:** 6

**Comments:** <plain>A voiced section explaining the mechanics and stages [or 'contacts'] of a solar eclipse - then the following animatic sections: eclipse sequence; eclipse sequence close-up; Sun-Moon-Earth eclipse configuration; eclipse from space; diamond ring; corona; Bailey's Beads from space; solar system configuration; solar eclipse map.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100792

**Title:** Artemis:Cleanroom Recordings

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/01/1999

**Length:** 39

**Comments:** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. Tape contains the following footage: interview with Tony Dickinson, ESA Artemis satellite project manager [GB]; interview with Mr Mastrachi, ESA Director of Applications Programme [I]; gvs' satellite in cleanroom [sound missing in parts] </plain>

**Keywords:** TELECOMMUNICATIONS,ARTEMIS

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100792

**Title:** Artemis:Cleanroom Recordings

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/01/1999

**Length:** 39

**Comments:** <plain>Artemis, the Advanced Data-Relay and Technology Mission Satellite, is the latest and most sophisticated telecommunications satellite to be developed by ESA. Equipped with sophisticated radio systems, Artemis will also use laser systems to transmit data directly between satellites. It is expected that a Japanese H2A rocket will push Artemis into orbit by February of the year 2000. Tape contains the following footage: interview with Tony Dickinson, ESA Artemis satellite project manager [GB]; interview with Mr Mastrachi, ESA Director of Applications Programme [I]; gvs' satellite in cleanroom [sound missing in parts] </plain>

**Keywords:** TELECOMMUNICATIONS,ARTEMIS

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100793

**Title:** Soalr Eclipse 1999 Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 06/12/1999

**Length:** 4

**Comments:** <plain>Graphics commissioned for the Solar Eclipse 1999, as used in the "Eclipse 1999 Graphics VNR", production no. 100790 </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100794

**Title:** SOHO Video Highlights July '99

**Type:** Original Material

**Category:** screen output

**Language** Mute

**Production Date** 07/01/1999

**Length:** 47

**Comments** <plain>ESA's SOHO [solar and heliospheric images] astronomical satellite was launched on December 2nd, 199: This film is a compilation of images of the Sun received from SOHO.</plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** broadcast

---

**Pouction no.** 00100794

**Title:** SOHO Video Highlights July '99

**Type:** Original Material

**Category:** screen output

**Language** Mute

**Production Date** 07/01/1999

**Length:** 47

**Comments** <plain>ESA's SOHO [solar and heliospheric images] astronomical satellite was launched on December 2nd, 199: This film is a compilation of images of the Sun received from SOHO.</plain>

**Keywords** SPACE SCIENCE,SOHO

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100795

**Title:** Mars Pathfinder Animation

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 00/00/00

**Length:** 8

**Comments** <plain>Launched in November 1995, the NASA Pathfinder mission to Mars will arrive at its destination in July 1997. The aim of the project is to explore the planet using a small rove vehicle. </plain>

**Keywords** SPACE SCIENCE,NASA GENERAL

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100796

**Title:** Honduras/Mitch rushes

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 00/00/00

**Length:** 34

**Comments** <plain>Rushes of the damage caused in Honduras by Hurricane Mitch, with running commentary in French. From mini-DV original.</plain>

**Keywords** WEATHER SATELLITES

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100797

**Title:** ESA Music: tape 1

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 17

**Comments** <plain>STAR MAP ROCK/ STAR MAP WORK/ STAR MAP SYNTHESE</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100797

**Title:** ESA Music: tape 1

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 17

**Comments:** <plain>STAR MAP ROCK/ STAR MAP WORK/ STAR MAP  
SYNTHESE</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100797

**Title:** ESA Music: tape 1 and 2

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 59

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100797

**Title:** ESA Music: tape 3 and 4

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 76

**Comments:** <plain></plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100797

**Title:** ESA Music: tape 1 and 2

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 59

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100797

**Title:** ESA Music: tape 3 and 4

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 76

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

---

**Pouction no.** 00100798

**Title:** ESA Music: tape 2

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 43

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100799

**Title:** ESA Music: tape 3

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 46

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100800

**Title:** ESA Music: tape 4

**Type:** Miscellaneous

**Category:** music

**Language**

**Production Date** 00/00/00

**Length:** 30

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100802

**Title:** Bourget 1999: Clervoy Interview

**Type:** Rushes

**Category:** Interviews

**Language:** French and English

**Production Date:** 06/13/1999

**Length:** 12

**Comments:** <plain>Interview with Jean-Francois Clervoy, recorded at le Bourget 1999, in French and English</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100803

**Title:** Living Planet Launch VNR: Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language**

**Production Date** 06/07/1999

**Length:** 0

**Comments:** <plain>rushes for production no. 000867</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100803

**Title:** Living Planet Launch VNR: Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language**

**Production Date** 06/07/1999

**Length:** 0

**Comments:** <plain>rushes for production no. 000867</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100804

**Title:** XMM: Cleanroom Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language** ME only

**Production Date** 05/26/1999

**Length:** 20

**Comments:** <plain>XMM, the European X-ray Multimirror telescope, is due to be launched in 1999. This video contains general cleanroom footage of the construction of this astronomical satellite at Daimler-Benz Aerospace. This tape contains footage of the telescope's mating to its platform, with the camera outside the cleanroom</plain>

**Keywords** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100805

**Title:** XMM: Cleanroom Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 05/26/1999

**Length:** 26

**Comments:** <plain>XMM, the European X-ray Multimirror telescope, is due to be launched in 1999. This video contains general cleanroom footage of the construction of this astronomical satellite at Daimler-Benz Aerospace. This tape contains footage of the telescope's mating to its platform, with the camera inside the cleanroom</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100806

**Title:** XMM: Cleanroom Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 07/05/1999

**Length:** 27

**Comments:** <plain>XMM, the European X-ray Multimirror telescope, is due to be launched in 1999. This video contains general cleanroom footage of the construction of this astronomical satellite at Daimler-Benz Aerospace. This tape contains footage of the telescope's transportation to the acoustic test chamber</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100807

**Title:** Pedro Duque Houston rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 33

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show Duque training at NASA's Johnson Space Centre in Houston, Texas. Includes neutral buoyancy EVA [extra-vehicular activity] pool training, getting into EVA suit, lowered into pool, poolside monitoring.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100808

**Title:** Pedro Duque Houston rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 29

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show monitoring of neutral buoyancy pool training, exterior views of Sonny Ca training facility, Duque is hoisted out of the water, gets out EVA suit; interviews with Pedro [Sp]; post pool session briefing.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100809

**Title:** Pedro Duque Houston rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 28

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show Duque returning to his residence by motorbike, at home with his wife and children, arriving at Johnson Space Centre; interview in English with Italian astronaut Umberto Guidoni. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100810

**Title:** Pedro Duque Houston rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 35

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show an interview [in English] with French ESA astronaut Jean-Francois Clervoy; exterior shots JSC, flags; shuttle simulator; Pedro comment talks about/demonstrates the crew escape pole [in Spanish does same with hatch and chute; general views Pedro inside shuttle simulator [gives commentary in Spanish].</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100811

**Title:** Pedro Duque Houston rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 35

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show Pedro in flight deck of shuttle simulator, gives commentary in Spanish; Pedro Spanish interview outside Johnson Space Centre [launchers in b/g]; gvs' launchers, nice shot of moon.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100812

**Title:** Pedro Duque Houston rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 32

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes include Duque and Glenn discussing biomedical experiments, demonstration of fluid physics experiments [suspended drop].</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100814

**Title:** Pedro Duque Houston Rushes 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1999

**Length:** 24

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show the following material: John Glenn demonstrates centrifuge experiment whilst Pedro commentates in Spanish; interview with John Glenn; Pedro demonstrates cooking dehydrated spaghetti a drink preparation; Pedro gives commentary [Spanish] in flight deck.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100816

**Title:** Pedro Duque Houston Rushes 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 27

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show Duque giving a final greeting and mission rundown before the launch, in English and Spanish.</plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100817

**Title:** Pedro Duque Houston Rushes 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 30

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show underwater footage of Pedro Duque neutral buoyancy EVA training at the Johnson Space Centre pool. </plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100817

**Title:** Pedro Duque Houston Rushes 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1998

**Length:** 30

**Comments:** <plain>The Spanish ESA astronaut Pedro Duque is set to fly on the NASA STS-95 mission in November with veteran astronaut John Glenn. These rushes show underwater footage of Pedro Duque neutral buoyancy EVA training at the Johnson Space Centre pool. </plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100818

**Title:** Energia: rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/08/1999

**Length:** 7

**Comments:** <plain>Rushes shot at Energia, Moscow as follows: exterio  
of the Service Module under construction, various shots;  
interior shots. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100819

**Title:** Energia: rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/08/1999

**Length:** 36

**Comments:** <plain>Rushes shot at Energia, Moscow as follows:  
interviews [Russian] with various personnel from DMSR  
computer team; various shots DMSR equipment; gvs' [ext ar  
int] Energia. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100820

**Title:** Energia: rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/08/1999

**Length:** 29

**Comments:** <plain>Rushes shot at Energia, Moscow - footage of the DMSR, interviews with Energia computer team [Russian], gvs' Energia computer team, exterior views Energia building.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100824

**Title:** STS-96 Mission Highlights tape 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 07/07/1999

**Length:** 50

**Comments:** <plain>NASA's 11-day Discovery mission STS-96 was launched on June 6th, 1999. The first flight to dock to the International Space Station [ISS], it functioned as a logistics and resupply mission. STS-96 carried the Russian Cargo Crane [STRELA] to the ISS, and also deployed the STARSHINE atmospheric research satellite. This tape contains the following mission highlights: pre-launch meal; crew suited-up, leave operations and checkout building, en astrovan, strapped into shuttle; launch, SRB separation, cr on flight deck; launch replays; main tank falls back to Earth, payload bay doors open; footage from arm as it manoeuvre around payload bay; shot of Zarya module from shuttle; cr on flight deck prior to docking; start of docking procedures, capture.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,SHUTTLE MIS

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100825

**Title:** STS-96 Mission Highlights tape 2

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 07/07/1999

**Length:** 56

**Comments:** <plain>NASA's 11-day Discovery mission STS-96 was launched on June 6th, 1999. The first flight to dock to the International Space Station [ISS], it functioned as a logistics and resupply mission. STS-96 carried the Russian Cargo Crane [STRELA] to the ISS, and also deployed the STARSHINE atmospheric research satellite. This tape contains the following footage: astronauts suit up for EVA [Extra-Vehicular Activity], emerge from shuttle into payload bay; various EVA footage; hatch opened into space station crew members in station perform various tasks - replacement of battery charge/discharger units, installation of mufflers to quieten ventilation fans, transfer of gear between Spacehab and station [with flythrough to illustrate path taken].</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100826

**Title:** STS-96 Mission Highlights tape 3

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 07/07/1999

**Length:** 0

**Comments:** <plain>NASA's 11-day Discovery mission STS-96 was launched on June 6th, 1999. The first flight to dock to the International Space Station [ISS], it functioned as a logistics and resupply mission. STS-96 carried the Russian Cargo Crane [STRELA] to the ISS, and also deployed the STARSHINE atmospheric research satellite. This tape contains the following footage: adjustment of hatch in Unity module; changing contaminant filter; closing hatch to node; ground control; undocking and flyaround; deployment of STARSHINE [pretty]; flight deck during re-entry; shuttle high altitude landing; crew inside shuttle, replays [including IR tracking];</plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100827

**Title:** Solar Eclipse: path of totality graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 39

**Comments:** <plain>Real-time graphic of the path of totality [in Western Europe] of the solar eclipse of 14th August,1999. </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100828

**Title:** STS-78: Post-Flight Conference

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 34

**Comments:** <plain>The STS-78 NASA mission was launched in 1996. Crew as follows: Henricks, Kregel, Brady, Thirsk, Linnehan Favier, Helms. This coverage of the post-flight conference includes the following images: introduction by commander; various launch footage; tank falls back to Earth; various in-flight experimentation; Earthviews; landing; mission stills.</plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,SHUTTLE MIS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100829

**Title:** Mars Polar Lander launch

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 62

**Comments:** <plain>NASA's Mars Polar Lander [one element of the Mars Global Surveyor '98 project, the other being Mars Climate Orbiter] was launched by Delta 11 from Cape Canaveral on Jan 3rd, 1999. This video contains coverage of pre-launch conference, various shots of launcher on lander, ignition at liftoff, post-launch staff members.</plain>

**Keywords:** SPACE SCIENCE,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100830

**Title:** le Bourget 1999: rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/19/1999

**Length:** 8

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of press conference - speech by Rodota</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100831

**Title:** le Bourget 1999: rushes 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 21

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999.  
Contains following footage: demonstration of CNES  
telemedicine apparatus; gvs ESA exhibits </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100832

**Title:** le Bourget 1999: rushes 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/14/1999

**Length:** 25

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999.  
Contains footage of Superbus transporter, Envisat mock-up;  
Starsem / Mars Express press conference [Francais],  
microgravity and manned spaceflight press  
conference.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100833

**Title:** le Bourget 1999: rushes 9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/14/1999

**Length:** 45

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of manned spaceflight and microgravity press conference; external views of ESA pavilion; gvs airshow, planes demonstrated. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100834

**Title:** le Bourget 1999: rushes 10

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/15/1999

**Length:** 24

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of Mars Express press conference.</plair>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100835

**Title:** le Bourget 1999: rushes 11

**Type:** Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 06/15/1999

**Length:** 15

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of Mars Express press conference, ISS simulator demonstration, externals ESA pavilion, people are shown around pavilion.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100836

**Title:** le Bourget 1999: rushes 12

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/15/1999

**Length:** 24

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of interviews with ESA's Professor Bonei [GB, on Mars Express]; various officials enter ESA pavilion tracking shot behind them as they meet Rodota and move in meeting with RKA [Koptev]; press conference of European launchers.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100837

**Title:** le Bourget 1999: rushes 13

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of launcher press conference. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100838

**Title:** le Bourget 1999: rushes 14

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/16/1999

**Length:** 23

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of people looking at space applications on computers, Earth observation press conference, people watch 3D ISS simulation. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100840

**Title:** le Bourget 1999: rushes 15

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/16/1999

**Length:** 25

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains footage of press conference on Earth observation.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100841

**Title:** Ariane 4: vol 121 selected rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 10/01/1999

**Length:** 60

**Comments:** <plain>The Telstar 7 satellite was launched on September 25th, 1999. This video contains an overview of the launch campaign, arranged as follows - arrival of launcher parts a CSG; launcher raised upright; integration of various components; launcher rolled out to final assembly building; satellite unloaded from plane, unboxed, encased and fuelled; satellite lowered onto base; application of logos; payload hoisted to top of launcher and attached; gvs launch control room; launch, tracking graph to show spacecraft's progress statements, technical footage launch. </plain>

**Keywords** LAUNCHERS,ARIANE 1 - 4

**Shotlist** <plain></plain>

**Use:** no use

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**Pouction no.** 00100842

**Title:** MPLM Alenia[Turin] rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 07/01/1999

**Length:** 75

**Comments:** <plain>Rushes of construction of the MPLM [Mini-Pressurised Logistics Module, a component of the International Space Station] at Alenia Aerospazio in Turin, Italy. Includes: gvs module construction, exteriors and interiors including detail; construction and testing of individual components; module submerged in water tank, EVA [extra-vehicular activity] simulation [suit bears ESA logo]; shots on monitor screen, wide shots of monitoring team; EVA suiting-up</plain>

**Keywords** INTERNATIONAL SPACE STATION

**Shotlist** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100843

**Title:** MPLM: Alenia [Turin] rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 07/01/1999

**Length:** 74

**Comments:** <plain>Rushes of construction of the MPLM [Mini-Pressurised Logistics Module, a component of the International Space Station] at Alenia Aeropazio in Turin, Ita Includes: diver maintenance and EVA [Extra-Vehicular Activity] training on submerged MPLM; [including monitoring team].</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100845

**Title:** XMM: CSG rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 41

**Comments:** <plain>Rushes of the arrival and launch preparations [at Guiana Space Centre, Kourou] of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Includes: XMM removed from packing case; clamped and raised upright; </plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100845

**Title:** XMM: CSG rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 41

**Comments:** <plain>Rushes of the arrival and launch preparations [at Guiana Space Centre, Kourou] of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Includes: XMM removed from packing case; clamped and raised upright; </plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100846

**Title:** XMM: CSG rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** M/E only

**Production Date:** 00/00/00

**Length:** 24

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: XMM unloaded from MN Toucan by night, driven to integration building, exterior shots integration building. </plai

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100846

**Title:** XMM: CSG rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language** M/E only

**Production Date** 00/00/00

**Length:** 24

**Comments** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: XMM unloaded from MN Toucan by night, driven to integration building, exterior shots integration building. </plai

**Keywords** XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100847

**Title:** Ariane 5: Vol. 112 Rollout Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language** Natural Sound Only

**Production Date** 10/01/1998

**Length:** 64

**Comments** <plain>Incorporates various shots of rollout of Ariane 503 launcher from integration building to final assembly building</plain>

**Keywords** ARIANE 5,ARD

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100848

**Title:** Ariane 5 Long Payload Testing

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/01/1999

**Length:** 70

**Comments:** <plain>Rushes of Ariane 5 Long Payload Fairing [Contraves separation test at NASA's Plum Brook Station. Contains: external views of Station; various shots of fairing in test facility, engineers in crane inspect fairing, interior shots of fairing, high-angle views of fairing, fairing is lifted; control room [with close-ups of controls, etc.]; fairing separation tests; transportation of fairing by road, unloading.</plain>

**Keywords:** ARIANE 5,LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100850

**Title:** September 1999 JSC Houston Rushes #5

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains: Gerhard Thiele German address to camera [versions 1,2 and 3]; deer in grounds; Thiele, Nicollier and Clervoy jogging; Nicollier and Clervoy play tennis.</plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100850

**Title:** September 1999 JSC Houston Rushes #5

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains: Gerhard Thiele German address to camera [versions 1,2 and 3]; deer in grounds; Thiele, Nicollier and Clervoy jogging; Nicollier and Clervoy play tennis.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100851

**Title:** September 1999 JSC Houston Rushes #6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>Contains: Clervoy and Nicoller play tennis</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100851

**Title:** September 1999 JSC Houston Rushes #6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>Contains: Clervoy and Nicoller play tennis</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100852

**Title:** September 1999 JSC Houston Rushes #9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Contains: jets take off; gvs' ext/int astronauts [inc. Clervoy] making their way into meeting room; teleconferenc [including Nicollier and Clervoy]; Nicollier English piece to camera [2 takes, 2 has more ESA message], Nicollier i/v English, French; </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100852

**Title:** September 1999 JSC Houston Rushes #9

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Contains: jets take off; gvs' ext/int astronauts [inc. Clervoy] making their way into meeting room; teleconferenc [including Nicollier and Clervoy]; Nicollier English piece to camera [2 takes, 2 has more ESA message], Nicollier i/v English, French; </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100853

**Title:** September 1999 Houston Rushes #10

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>interview with Nicollier </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100854

**Title:** September 1999 JSC Houston rushes #10

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains: IVs Nicollier English, French and German; gvs EVA training pool; preparations for underwater neutral buoyancy training [including getting into EVA suits]; </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100854

**Title:** September 1999 JSC Houston rushes #10

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains: IVs Nicollier English, French and German; gvs EVA training pool; preparations for underwater neutral buoyancy training [including getting into EVA suits]; </plain>

**Keywords:**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100855

**Title:** September 1999 JSC Houston rushes #11

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains: Nicollier suited-up for underwater EVA training; pool training control room [with Clervoy in control room]; exterior neutral buoyancy lab [logo]; Clervoy in robot arm simulator. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100855

**Title:** September 1999 JSC Houston rushes #11

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains: Nicollier suited-up for underwater EVA training; pool training control room [with Clervoy in control room]; exterior neutral buoyancy lab [logo]; Clervoy in robot arm simulator. </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100856

**Title:** September 1999 JSC Houston rushes #12

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains; Clervoy in arm simulator; Clervoy piece to camera [French and English] in simulator; Clervoy IV [English and French].</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100857

**Title:** September 1999 JSC Houston rushes #13

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 9

**Comments:** <plain>Contains: Clervoy in flight simulator IV [French and English], Clervoy does robotic arm simulation.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100859

**Title:** September 1999 JSC Houston rushes #1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>Contains: NASA astronaut in EVA suit prior to neutral buoyancy training, same for Nicollier; astronauts lowered in pool; gvs' pool, shots of astronauts through surface; pool control room [with astronauts on screen]; Shuttle flight deck simulator [Thiele].</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100861

**Title:** September 1999 JSC Houston rushes #4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Contains: Thiele on shuttle simulator flight deck, vide training; exterior shuttle simulator; Thiele I/Vs in English and German, plus piece to camera;

</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100863

**Title:** September 1999 JSC Houston rushes #8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 32

**Comments:** <plain>Coontains: Thiele driving, Thiele T38 jet training [prior to takeoff]</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100864

**Title:** September 1999 JSC Houston rushes #2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Contains: Thiele in shuttle simulator [take-off simulation]; Clervoy/ Nicollier winch training</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100865

**Title:** September 1999 JSC Houston rushes #3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>Contains: winch training {clervoy and Nicollier}; astronauts in shuttle simulator [ext. views only], and in cotr centre simulation; shuttle guidance and navigation simulator ext and int [with Thiele] </plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100866

**Title:** September 1999 JSC Houston rushes #7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>EVA Hubble simulation [sound and black only]; at 06:24:10 computer simulation of cabin depressurisation and Hubble repair</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100867

**Title:** Ariane 4: vol. 123 campaign video

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/13/1999

**Length:** 59

**Comments:** <plain>The launch of the GE 4 satellite was by Ariane 4 from French Guiana, on November 13th 1999. Includes: arrival of launcher in MN Toucan vessel, launcher raised upright in integration building; addition of vehicle equipment bay; launcher rolled to final assembly building; arrival of satellite plane, assembly and fuelling; launch OB footage, speeches various [technical] launch footage.</plain>

**Keywords:** LAUNCHERS,ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100868

**Title:** XMM: CSG rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 39

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: XMM upright in integration building, various engineer cutaways[including on crane], moved onto base; fuelled.</plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100868

**Title:** XMM: CSG rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 39

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: XMM upright in integration building, various engineer cutaways[including on crane], moved onto base; fuelled.</plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100869

**Title:** XMM: CSG rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: XMM fuelling; XMM onto stand</plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100869

**Title:** XMM: CSG rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 15

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: XMM fuelling; XMM onto stand</plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100871

**Title:** XMM: CSG Rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 82

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: interior of two halves of payload bay; XMM wheeled across cleanroom; XMM transferred to top of launcher; good pan down from XMM to show Ariane 5 launcher; launcher rolled out to launch zone; launcher on pad; launcher rolled back to final assembly building. </plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100871

**Title:** XMM: CSG Rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 82

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: interior of two halves of payload bay; XMM wheeled across cleanroom; XMM transferred to top of launcher; good pan down from XMM to show Ariane 5 launcher; launcher rolled out to launch zone; launcher on pad; launcher rolled back to final assembly building. </plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100872

**Title:** XMM: CSG Rushes 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 38

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: application of logos [including childrens' pics] to payload bay hood, hood attached to base, hood lowered over XMM.</plain>

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100872

**Title:** XMM: CSG Rushes 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 38

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th. Contains: application of logos [including childrens' pics] to payload ba hood, hood attached to base, hood lowered over XMM.</ple

**Keywords:** XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100873

**Title:** Nicollier: Neutral Buoyancy Training 1

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/10/1999

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100874

**Title:** Nicollier: Neutral Buoyancy Training 2

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00100876

**Title:** Nicollier: STS103 Neutral Buoyancy Training 1

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/16/1999

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100878

**Title:** Nicollier: STS103 Neutral Buoyancy Training 2

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/16/1999

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100879

**Title:** Nicollier: STS103 Neutral Buoyancy Training 3

**Type:** Miscellaneous

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/16/1999

**Length:** 0

**Comments:** <plain></plain>

**Keywords:** MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100880

**Title:** le Bourget 1999: rushes 5

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 06/14/1999

**Length:** 23

**Comments:** <plain>Rushes of le Bourget [Paris Airshow] June 1999. Contains coverage of Rodota [English] press conference [n cuts to radio mike CH2 only at t/c 05:01:56]; cutaways at end.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100881

**Title:** Ariane 4: vol 124 Campaign Clips

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/03/1999

**Length:** 43

**Comments:** <plain>On December 4th 1999, Ariane 4 carried the Helios 1B/ Clementine spacecraft into orbit [Vol. 124]. This video contains clips of the launch campaign as follows: arrival of MN Toucan, unloading of launcher components; launcher in assembly building; launcher rollout, closing of cryogenic arms; satellite fuelling; unpackaging and pre-flight testing/assembly of Clementine; payload bay fairing closed, application of logos; payload bay hoisted to top of launcher; final assembly building pulled away; control room, launch [with Arianespace logo], Luton post-flight speech, various launch footage [including technical].</plain>

**Keywords:** ARIANE 1 - 4

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100882

**Title:** XMM: CSG Rushes 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 10

**Comments:** <plain>Rushes of the arrival and launch preparations at Guiana Space Centre, Kourou of ESA's XMM observatory, due for launch by Ariane 504 on December 9th 1999. This video shows the rollout of the launcher to the launchpad and its installation, plus various shots of the launcher on its pad helicopter views of rollout of launcher to launch zone.</plain>

**Keywords:** ARIANE 5,XMM

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100884

**Title:** Cupola 3D graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 09/28/1999

**Length:** 2

**Comments:** <plain>Europe's engineers have developed a set of windows for the International Space Station [ISS] that can withstand the radiation and particle bombardment that will come from years in space. Called cupola, these windows have a dome hexagonal shape and are nearly 2 metres in diameter. The first cupola will be mounted on the Unity connecting node of the ISS. This tape contains a set of graphics depicting cupola structure. </plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100885

**Title:** Leonids 1999 Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 0

**Comments:** <plain>The Leonids meteor shower occurs every 33 years so, and is formed by the debris trail of the comet Tempel-Tuttle as it approaches the Sun and warms up. This year - 1999 - the Leonids are expected over Europe. This tape contains background animations to illustrate the phenomenon. As follows: orbit and clouds; dust shower impacts; impacts on atmosphere. </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100891

**Title:** Michael Perryman Hipparcos Interview

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 06/08/1999

**Length:** 4

**Comments:** <plain>Filmed in conjunction with the 10th anniversary of ESA's Hipparcos satellite - which mapped the distances of the stars from our Earth, analysing their movements and history - this interview is with Michael Perryman, ESA Hipparcos Project Scientist. </plain>

**Keywords:** HIPPARCOS,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100893

**Title:** Last Mir Crew Landing

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/22/1999

**Length:** 8

**Comments:** <plain>On August 28th, 1998, the last Mir crew returned safely to Earth, among them ESA astronaut Jean-Pierre Haignere who had spent 186 days on the Russian space station during the French Perseus mission. On August 28th, CNES produced video recordings of the landing and the subsequent transfer of the crew to Star City. This tape contains a compilation of this material. </plain>

**Keywords:** MANNED SPACEFLIGHT,SPACE STATIONS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100897

**Title:** Ariane 504 V119 / XMM J+6

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 100

**Comments:** <plain>Compilation of rushes of the arrival and launch preparations at Guiana Space Centre, Kourou, of ESA's XM observatory, launched by Ariane 504 on December 9th, 1999. This tape incorporates arrival of MN Toucan vessel at Kourou harbour; unloading 504 launcher stages; transport by convoy to Guiana Space Centre (CSG); various shots of launcher erected in integration building; integration of boost stage; rollout of launcher from integration building to final assembly building; rollout launcher lower composite to launchpad; XMM arrival by MN Toucan, Kourou; various shots of XMM in final assembly building; rollout Ariane 504 to launchpad; various footage of launch of Ariane 504 / XMM including control room countdown and live commentary; speeches by Jean-Marie Luton, Chairman and CEO Arianespace, and Roger Bonnet, Director Science, ESA; selection of technical footage of launch including thermal imaging.</plain>

**Keywords:** XMM,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100897

**Title:** Ariane 504 V119 / XMM J+6

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 00/00/00

**Length:** 100

**Comments:** <plain>Compilation of rushes of the arrival and launch preparations at Guiana Space Centre, Kourou, of ESA's XMM observatory, launched by Ariane 504 on December 9th, 1999. This tape incorporates arrival of MN Toucan vessel at Kourou harbour; unloading 504 launcher stages; transport by convoy to Guiana Space Centre (CSG); various shots of launcher erected in integration building; integration of boost stage; rollout of launcher from integration building to final assembly building; rollout launcher lower composite to launchpad; XMM arrival by MN Toucan, Kourou; various shots of XMM in final assembly building; rollout Ariane 504 to launchpad; various footage of launch of Ariane 504 / XMM including control room countdown and live commentary; speeches by Jean-Marie Luton, Chairman and CEO Arianespace, and Roger Bonnet, Director Science, ESA; selection of technical footage of launch including thermal imaging.</plain>

**Keywords:** XMM,ARIANE 5

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100901

**Title:** Cluster 2: IABG Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language**

**Production Date:** 11/23/1999

**Length:** 0

**Comments:** <plain>This video was filmed in the solar test and integration facilities, on 23 November 1999, at IABG, near Munich, Germany, and contains rushes of ESA's Cluster 2 satellites. It includes footage in the clean room at IABG. Cluster 2 is part of an international programme to find out more about how the Sun influences the Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch of Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100901

**Title:** Cluster 2: IABG Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 11/23/1999

**Length:** 18

**Comments:** <plain>This video was filmed in the solar test and integration facilities, on 23 November 1999, at IABG, near Munich, Germany, of ESA's Cluster 2 satellite. It includes footage in the clean room at IABG. Cluster 2 is part of an international programme to find out more about how the Sun influences the Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch of Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100901

**Title:** Cluster 2: IABG Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute / Natural Sound

**Production Date:** 11/23/1999

**Length:** 18

**Comments:** <plain>This video was filmed in the solar test and integration facilities, on 23 November 1999, at IABG, near Munich, Germany, and contains rushes of ESA's Cluster 2 satellite. It includes footage in the clean room at IABG. Cluster 2 is part of an international programme to find out more about how the Sun influences the Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch of Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100903

**Title:** Cluster 2: IABG Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute / Natural Sound

**Production Date:** 11/23/1999

**Length:** 33

**Comments:** <plain>This video contains rushes of ESA's Cluster 2 satellite, filmed in the clean room of the solar test and integration facilities at IABG, near Munich, Germany, on 23 November 1999. Includes footage of solar test facility with stacked cluster satellite and two men in branded suits. Contains some natural sound at 01:27:17:00. Cluster 2 is part of an international programme to find out more about how the Sun influences t Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch r Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets, from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later.

</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100903

**Title:** Cluster 2: IABG Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute / Natural Sound

**Production Date:** 11/23/1999

**Length:** 33

**Comments:** <plain>This video contains rushes of ESA's Cluster 2 satellite, filmed in the clean room of the solar test and integration facilities at IABG, near Munich, Germany, on 23 November 1999. Includes footage of solar test facility with stacked cluster satellite and two men in branded suits. Contains some natural sound at 01:27:17:00. Cluster 2 is part of an international programme to find out more about how the Sun influences t Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch r Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets, from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100903

**Title:** Cluster 2: IABG Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute / Natural Sound

**Production Date:** 11/23/1999

**Length:** 33

**Comments:** <plain>This video contains rushes of ESA's Cluster 2 satellite, filmed in the clean room of the solar test and integration facilities at IABG, near Munich, Germany, on 23 November 1999. Includes footage of solar test facility with stacked cluster satellite and two men in branded suits. Contains some natural sound at 01:27:17:00. Cluster 2 is part of an international programme to find out more about how the Sun influences t Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch r Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets, from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later.

</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100904

**Title:** Cluster 2: IABG Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/23/1999

**Length:** 20

**Comments:** <plain>This video contains rushes of the four cylindrical satellites of ESA's Cluster 2, filmed in the clean room of the solar test and integration facilities at IABG, near Munich, Germany, on 24 November 1999. Cluster 2 is part of an international programme to find out more about how the Sun influences the Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch of Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100904

**Title:** Cluster 2: IABG Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/23/1999

**Length:** 20

**Comments:** <plain>This video contains rushes of the four cylindrical satellites of ESA's Cluster 2, filmed in the clean room of the solar test and integration facilities at IABG, near Munich, Germany, on 24 November 1999. Cluster 2 is part of an international programme to find out more about how the Sun influences the Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch of Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100904

**Title:** Cluster 2: IABG Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/23/1999

**Length:** 20

**Comments:** <plain>This video contains rushes of the four cylindrical satellites of ESA's Cluster 2, filmed in the clean room of the solar test and integration facilities at IABG, near Munich, Germany, on 24 November 1999. Cluster 2 is part of an international programme to find out more about how the Sun influences the Earth. Variations in solar energy output can cause global climate changes and damage the ozone layer. Cluster 2 is a replacement for the original Cluster mission maiden launch of Ariane 5 in June 1996, and will be the first space science mission ever to fly four identical spacecraft simultaneously. The first pair of Cluster 2 satellites are set for launch, by two Russian Soyuz rockets from Baikonur Cosmodrome, Kazakhstan, in June 2000. The second pair will follow one month later. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100905

**Title:** STS-99 Preflight Crew News Conference

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 37

**Comments:** <plain>This video contains a live-action recording of the STS-99 [SRTM] pre-flight press conference with astronauts, held at NASA/Johnson Space Center, Houston, on 21 January 2000. Crew as follows: Kevin Kregl, Janet Kavandi, Gerhard Thiele, Dom Gorie, Mamoru Mohri, Janice Voss. On 31 January 2000, the Space Shuttle Endeavour is launched on mission to complete the most extensive topographic survey of the Earth's surface to date. The Shuttle Radar Topography Mission (SRTM) - on which ESA astronaut Gerhard Thiele is a crew member - will collect radar data, using a technique called SAR interferometry, which provides scientists with a three-dimensional model of 80% of the planet's surface. These will be the first 3D maps of developing countries and large areas of sparsely populated desert and forest. Benefits will include improved forecasting of environmental conditions, increased navigational safety, help with urban planning and road construction. The SRTM payload is a joint project between NASA, NIMA (National Image and Mapping Agency), DLR (German Aerospace Centre) and ASI (Italian Space Agency). </plain>

**Keywords:** SHUTTLE MISSIONS,MANNED SPACEFLIGHT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100907

**Title:** XMM Construction: Selected Rushes

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/13/1999

**Length:** 17

**Comments:** <plain>ESA's XMMM [X-ray Multi Mirror Observatory] was launched by Ariane 5 on December 9th 1999. The most sensitive X-ray satellite yet, it will carry three advanced x-r telescopes that will look at millions of X-ray sources in the Universe. Each telescope bears 58 high-precision mirrors which reflect X-rays onto sensors giving XMM capacity for long, uninterrupted observations at very high levels of sensitivity. This video contains a selection of rushes of the construction of XMM's mirror modules. Includes XMM construction graphics.</plain>

**Keywords:** XMM,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100908

**Title:** STS-103: J.F. Clervoy Training Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/01/1999

**Length:** 36

**Comments:** <plain>NASA's STS-103 Hubble Telescope Servicing Mission was launched on 20th December 1999, from the Kennedy Space Centre, with a crew of seven astronauts including ESA astronauts, Jean-Francois Clervoy and Clauc Nicollier. The main objects for the mission were to replace Hubble's faulty gyroscopes, and other equipment, such as 1 computer, a Fine Guidance Sensor, a radio transmitter and ; Solid State Recorder. The Hubble Space Telescope is a join NASA/ESA project. This video contains rushes of Clervoy's pre-flight simulation training on the operation of the robotic arm, at the Johnson Space Center. The robotic arm is used capture and release the telescope from the payload bay, in support of EVAs [the spacewalks]. Also included are interviews with Clervoy in French and English. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100908

**Title:** STS-103: J.F. Clervoy Training Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/01/1999

**Length:** 36

**Comments:** <plain>NASA's STS-103 Hubble Telescope Servicing Mission was launched on 20th December 1999, from the Kennedy Space Centre, with a crew of seven astronauts including ESA astronauts, Jean-Francois Clervoy and Clauc Nicollier. The main objects for the mission were to replace Hubble's faulty gyroscopes, and other equipment, such as 1 computer, a Fine Guidance Sensor, a radio transmitter and ; Solid State Recorder. The Hubble Space Telescope is a join NASA/ESA project. This video contains rushes of Clervoy's pre-flight simulation training on the operation of the robotic arm, at the Johnson Space Center. The robotic arm is used capture and release the telescope from the payload bay, in support of EVAs [the spacewalks]. Also included are interviews with Clervoy in French and English. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100909

**Title:** STS-103: J.F. Clervoy Training Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/01/1999

**Length:** 9

**Comments:** <plain>NASA's STS-103 Hubble Telescope Servicing Mission was launched on 20th December 1999, from the Kennedy Space Centre, with a crew of seven astronauts including ESA astronauts, Jean-Francois Clervoy and Clauc Nicollier. The main objects for the mission were to replace Hubble's faulty gyroscopes, and other equipment, such as 1 computer, a Fine Guidance Sensor, a radio transmitter and ; Solid State Recorder. The Hubble Space Telescope is a join NASA/ESA project. This video contains rushes of Clervoy's pre-flight simulation training on the operation of the robotic arm, at the Johnson Space Center. The robotic arm is used capture and release the telescope from the payload bay, in support of EVAs [the spacewalks]. Also included are interviews with Clervoy in French and English. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100909

**Title:** STS-103: J.F. Clervoy Training Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 09/01/1999

**Length:** 9

**Comments:** <plain>NASA's STS-103 Hubble Telescope Servicing Mission was launched on 20th December 1999, from the Kennedy Space Centre, with a crew of seven astronauts including ESA astronauts, Jean-Francois Clervoy and Claud Nicollier. The main objects for the mission were to replace Hubble's faulty gyroscopes, and other equipment, such as 1 computer, a Fine Guidance Sensor, a radio transmitter and ; Solid State Recorder. The Hubble Space Telescope is a joint NASA/ESA project. This video contains rushes of Clervoy's pre-flight simulation training on the operation of the robotic arm, at the Johnson Space Center. The robotic arm is used capture and release the telescope from the payload bay, in support of EVAs [the spacewalks]. Also included are interviews with Clervoy in French and English. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100910

**Title:** STS-59 Post-Flight Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 05/19/1994

**Length:** 41

**Comments:** <plain>Post-flight presentation of the STS-59 mission [NASA] with primary payload, the Space Radar Laboratory (SRL-1) and United States Microgravity Payload-2. Crew members were as follows:Sidney Gutierrez, Kevin Shutton, Linda Godwin, Jay Apt, Richard Clifford and Tom Jones. Th presentation, given by the astronauts, summarizes the mission with a sequence of slides and video footage. </plain>

**Keywords:** SHUTTLE MISSIONS,NASA GENERAL,MANNED SPACEF

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100911

**Title:** Apollo 11 Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 4

**Comments:** <plain>This video is a compilation of short sequence Apollo 11 graphics. NASA's Apollo 11 Mission placed the first men on the moon in July 1969. Copyright clearance needed before use. No commercial usage permitted. </plain>

**Keywords:** NASA GENERAL,MANNED SPACEFLIGHT,HISTORICAL

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00100952

**Title:** STS-103 Crew Training

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/05/1999

**Length:** 30

**Comments:** <plain>The STS-103 shuttle mission was launched on 20 December 1999, from the Kennedy Space Centre, and was the third flight to service and repair the Hubble Space Telescope, a joint NASA/ESA project. Crew members included ESA astronauts Claude Nicollier and Jean-Francois Clervoy. Other STS-103 crew members were: Curtis L. Brown, commander; Scott J. Kelly, pilot; Steven L. Smith, mission specialist; C. Michael Foale, mission specialist; John M. Grunsfeld, mission specialist. This video demonstrates some of the pre-flight training exercises undertaken in preparation for the mission. Footage is arranged as follows: CREW PORTRAIT (01:00:30:00) EMERGENCY EGRESS TRAINING (01:01:40:00) EVA TRAINING IN THE GUIDANCE NAVIGATION SIMULATOR (01:09:30:00) VIRTUAL REALITY LAB TRAINING (01:14:00:00) SYSTEMS ENGINEERING SIMULATOR (01:19:37:00) EVA TRAINING AT THE NBL (01:22:32:00) </plain>

**Keywords:** HUBBLE SPACE TELESCOPE,MANNED SPACEFLIGHT,N

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100972

**Title:** Ariane 504 / XMM: Vol.119 J+3 Technical Films

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 61

**Comments:** <plain>The Ariane 504 rocket, bearing ESA's X-ray Multi-Mirror [XMM] observatory, was launched from Guiana Space Centre, Kourou, on December 10, 1999. This video contains a compilation of various technical footage of the launch. Images are taken at different angles, speeds and distances.</plain>

**Keywords:** ARIANE 5,XMM

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100973

**Title:** SOLVE Mission: Rushes 1

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/01/2000

**Length:** 0

**Comments:** <plain>SOLVE (SAGE III Ozone Loss and Validation Experiment) is an Arctic mission, conducted over the course of the 1999-2000 winter. The SOLVE campaign employs the NASA ER-2, NASA DC-8 aircraft, the OMS in situ, and remote sensing balloon payloads, with ground station observations, to examine the processes which control polar mid-latitude stratospheric ozone levels. The mission acquires correlative measurements needed to validate the Stratospheric Aerosol and Gas Experiment (SAGE) III satellite mission, and to help quantitatively assess high latitude ozone loss. The principal question for SOLVE is to explain the reduced ozone levels in Arctic and Antarctic air over the last decade. Kiruna, Sweden was chosen as the deployment site for SOLVE because it has the Arena Arctic facility at Kiruna Airport, which provides a superb hangar for the ER-2 and DC-8 operations, and is also ideally sited for measurements of the lower stratospheric polar vortex, as its position is located near the climatological average coldest region in the Arctic. This video contains selected rushes of the SOLVE campaign, filmed in Kiruna, Sweden. </plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100993

**Title:** Cluster 2: IABG Ottobrunn Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/23/1999

**Length:** 28

**Comments:** <plain>This video contains rushes of three new Cluster 2 replacement satellites in the clean room of the test and integration facilities at IABG, Ottobrunn, near Munich, Germany. The spacecraft undergo intensive vibration, then vacuum and magnetic testing at the plant in preparation for the mission launch. ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences the Earth. It consists of four identical spacecraft flying in formation between 25000 and 125000 km above the Earth. There they will study the planet's magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave energy produced by the Sun, which buffets the Earth's protective magnetosphere. This wind often breaks through the poles, producing auroras. Cluster 2 will examine this phenomenon, along with several others associated with the solar wind. Variations in solar energy can cause global climate changes and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit in pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat of the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission, even using some of the original spare parts. Its scientific objectives also remain unchanged. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100994

**Title:** Cluster 2: IABG Ottobrunn Rushes 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 11/23/1999

**Length:** 34

**Comments:** <plain>This video contains rushes of three new Cluster 2 replacement satellites in the clean room of the test and integration facilities at IABG, Ottobrunn, near Munich, Germany. The spacecraft undergo intensive vibration, then vacuum and magnetic testing at the plant in preparation for the mission launch. ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences the Earth. It consists of four identical spacecraft flying in formation between 25000 and 125000 km above the Earth. There they will study the planet's magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave energy produced by the Sun, which buffets the Earth's protective magnetosphere. This wind often breaks through the poles, producing auroras. Cluster 2 will examine this phenomenon, along with several others associated with the solar wind. Variations in solar energy can cause global climate changes and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit in pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat of the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission, even using some of the original spare parts. Its scientific objectives also remain unchanged. </plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100995

**Title:** Cluster 2: IABG Ottobrunn Rushes 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 12/10/1999

**Length:** 30

**Comments:** <plain>Rushes filmed at the test and integration facilities, IABG, Ottobrunn, near Munich, Germany, where the Cluster : satellites undergo intensive environmental and mechanical testing in preparation for the mission launch. Footage includes: Cluster satellite spin-test and observation in TV chamber (filmed 12/10/99); acoustic testing control room (filmed 01/11/00). ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences the Earth. It consists of four identical spacecraft flying in formation between 25000 and 125000 km above the Earth. There they will study the planet's magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave energy produced by the Sun, which buffets the Earth's protective magnetosphere. This wind often breaks through the poles, producing auroras. Cluster 2 will examine this phenomenon, along with several others associated with the solar wind. Variations in solar energy can cause global climate changes and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit in pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat of the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission, even using some of the original spare parts. Its scientific objectives also remain unchanged.  
</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100996

**Title:** Cluster 2: IABG Ottobrunn Rushes 4

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/11/2000

**Length:** 32

**Comments:** <plain>Rushes filmed at the test and integration facilities, IABG, Ottobrunn, near Munich, Germany, where the Cluster : satellites undergo intensive environmental and mechanical testing in preparation for the mission launch. Footage includes: Cluster satellite in acoustic testing chamber (filmed 01/11/00); satellite alignment tests in IABG clean room (filmed 01/17/00); satellite alignment tests (filmed 01/18/00). ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences the Earth. It consists of four identical spacecraft flying in formation between 25000 and 125000 km above the Earth. There they will study the planet's magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave energy produced by the Sun, which buffets the Earth's protective magnetosphere. This wind often breaks through the poles, producing auroras. Cluster 2 will examine this phenomenon, along with several others associated with the solar wind. Variations in solar energy can cause global climate changes and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit in pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat of the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission, even using some of the original spare parts. Its scientific objectives also remain unchanged.  
</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00100997

**Title:** Cluster 2: IABG Ottobrunn Rushes 5

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/18/2000

**Length:** 33

**Comments:** <plain>Rushes filmed at the test and integration facilities, IABG, Ottobrunn, near Munich, Germany, where the Cluster : satellites undergo intensive environmental and mechanical testing in preparation for the mission launch. Footage includes: Cluster 2 testing in leakproof container, with balloons and booms (filmed 01/18/00); conducting Reaction Control System (RCS) test (filmed 01/20/00). ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences the Earth. It consists of four identical spacecraft flying in formation between 250 and 125000 km above the Earth. There they will study the planet's magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave of energy produced by the Sun which buffets the Earth's protective magnetosphere. This wind often breaks through at the poles, producing auroras. Cluster 2 will examine this phenomenon, along with several others associated with the solar wind. Variations in solar energy can cause global climate changes and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit in pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat of the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission even using some of the original spare parts. Its scientific objectives also remain unchanged.  
</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00100999

**Title:** Cluster 2: IABG Ottobrunn Rushes 6

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 01/20/2000

**Length:** 26

**Comments:** <plain>Rushes filmed at the test and integration facilities, IABG, Ottobrunn, near Munich, Germany, where the Cluster satellites undergo intensive environmental and mechanical testing in preparation for the mission launch. Footage includes: interview in German with Mr Reichert and Mr Page of Dornier Satellitensysteme, prime contractor for Cluster 2, with detailed explanations of tests; short sequence on dynamic balance testing (filmed 02/04/00). ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences the Earth. It consists of four identical spacecraft flying in formation between 25000 and 125000 km above the Earth. There they will study the planet's magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave of energy produced by the Sun which buffets the Earth's protective magnetosphere. This wind often breaks through at the poles, producing auroras. Cluster 2 will examine this phenomenon, along with several others associated with the solar wind. Variations in solar energy can cause global climate changes and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit in pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat of the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission even using some of the original spare parts. Its scientific objectives also remain unchanged.  
</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101000

**Title:** Cluster 2: IABG Ottobrunn Rushes 7

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 02/04/2000

**Length:** 30

**Comments:** <plain>Rushes filmed at the test and integration facilities, IABG, Ottobrunn, near Munich, Germany, where the Cluster 2 satellites undergo intensive environmental and mechanical testing in preparation for the mission launch. Footage includes: dynamic balance testing (filmed 02/04/00); magnetic field chamber (filmed 02/21/00). ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences the Earth. It consists of four identical spacecraft flying in formation between 25000 and 125000 km above the Earth. There they will study the plane magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave of energy produced by the Sun, which buffets the Earth's protective magnetosphere. This wind often breaks through at the poles, producing auroras. Cluster 2 will examine this phenomenon, along with several others associated with the solar wind. Variations in solar energy can cause global climate changes and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit in pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat of the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission even using some of the original spare parts. Its scientific objectives also remain unchanged.

</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101001

**Title:** Cluster 2: IABG Ottobrunn Rushes 8

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 02/21/2000

**Length:** 17

**Comments:** <plain>Rushes filmed at the test and integration facilities, IABG, Ottobrunn, near Munich, Germany, where the Cluster : satellites undergo intensive environmental and mechanical testing in preparation for the mission launch. Footage includes: testing in magnetic field chamber (filmed 02/21/00); computer screen data from magnetic field tests; moving satellite. ESA's Cluster 2 mission is part of an international programme to find out more about how the Sun influences t Earth. It consists of four identical spacecraft flying in formation between 25000 and 125000 km above the Earth. There they will study the planet's magnetic field and electric surroundings in three dimensions. In particular, they will be looking at the effects of the solar wind, the hot wave of en produced by the Sun, which buffets the Earth's protective magnetosphere. This wind often breaks through at the pole producing auroras. Cluster 2 will examine this phenomenon along with several others associated with the solar wind. Variations in solar energy can cause global climate change and damage the ozone layer. Cluster 2 is scheduled for launch by mid-2000. The four satellites will be put into orbit pairs by two Soyuz rockets fired from the Baikonur cosmodrome in Kazakhstan. The mission is a direct repeat the original Cluster project lost during the explosion of the Ariane-5 demonstration flight in June 1996. Cluster 2 will be based on the original mission, even using some of the origin spare parts. Its scientific objectives also remain unchanged.

</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101012

**Title:** STS-93 Mission Highlights Resource Tape

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 11/29/1999

**Length:** 58

**Comments:** <plain>NASA's STS-93 mission was launched from Kennedy Space Centre, on July 23, 1999. Its primary payload was the Chandra X-Ray Observatory, designed to observe X-rays from high energy regions of the universe, such as hot gas in the remnants of exploded stars. The shuttle mission was commanded for the first time by a woman, Eileen Collins. Other crew members are Jeffrey S. Ashby, pilot, and mission specialists Steven A. Hawley, Catherine G. Coleman, and CNES astronaut, Michel Tognini, whose previous experience includes the 1992 Antares mission to Mir. This video contains live broadcast mission highlights.</plain>

**Keywords:** NASA GENERAL,SHUTTLE MISSIONS,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101052

**Title:** Leonids: Koschny Interview 1999

**Type:** Rushes

**Category:** Interviews

**Language:** English and German

**Production Date:** 11/08/1999

**Length:** 12

**Comments:** <plain>The Leonids meteor shower occurs roughly every 33 years, and is formed by the debris trail of the comet Tempel-Tuttle as it approaches the Sun and warms up. In November 1999, ESA scientists prepared an observational campaign at Calar Alto and Sierra Nevada observatories in Southern Spain, on predictions that the Leonids would generate a magnificent storm. This video contains an interview with ESA scientist, Detlef Koschny, who explains the background history of the Leonids meteor showers, the difficulty of predictions, and the influence of Jupiter on the Leonids. [Interview interrupted by traffic noise at times.] </plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101053

**Title:** FIRST / Planck Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 02/01/2000

**Length:** 8

**Comments:** <plain>The FIRST satellite will be carried into space by Planck, an ESA mission due for launch in 2007. After launch Planck and FIRST will separate and will be placed in different orbits around the second Lagrangian point of the Earth-Sun System. Planck will survey the cool background of radio microwaves which fill the sky, apparently a relic of the Big Bang at the origin of the Universe. FIRST will open a new generation of giant space telescopes, observing light re-emitted by galactic dust, illuminated by the intense star-formation, and hence can be used to measure the total amount of energy produced by new-born stars. The ultimate goal of the Planck mission is to help astronomers understand how some primeval galaxies formed, in order to test theories describing the birth and evolution of the Universe. This video contains 3-D graphics detailing the launch configuration of the Planck mission (known as "Carrier"); 3-D graphics of FIRST/Planck in Ariane 5 fairing; live footage of an Ariane 5 launch sequence; 3-D graphics of Ariane 5 flight sequence; 3-D graphics of FIRST / Planck cruise configuration; 3-D graphics of FIRST spacecraft separation; 3-D graphics of Planck spacecraft separation; graphics of FIRST/Planck transfer to L2 orbit; graphics of FIRST transfer to Halo orbit and Planck transfer to Lissajous orbit. </plain>

**Keywords:** PLANCK,SPACE SCIENCE,FIRST

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101053

**Title:** FIRST / Planck Graphics

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 02/01/2000

**Length:** 8

**Comments:** <plain>The FIRST satellite will be carried into space by Planck, an ESA mission due for launch in 2007. After launch Planck and FIRST will separate and will be placed in different orbits around the second Lagrangian point of the Earth-Sun System. Planck will survey the cool background of radio microwaves which fill the sky, apparently a relic of the Big Bang at the origin of the Universe. FIRST will open a new generation of giant space telescopes, observing light re-emitted by galactic dust, illuminated by the intense star-formation, and hence can be used to measure the total amount of energy produced by new-born stars. The ultimate goal of the Planck mission is to help astronomers understand how some primeval galaxies formed, in order to test theories describing the birth and evolution of the Universe. This video contains 3-D graphics detailing the launch configuration of the Planck mission (known as "Carrier"); 3-D graphics of FIRST/Planck in Ariane 5 fairing; live footage of an Ariane 5 launch sequence; 3-D graphics of Ariane 5 flight sequence; 3-D graphics of FIRST / Planck cruise configuration; 3-D graphics of FIRST spacecraft separation; 3-D graphics of Planck spacecraft separation; graphics of FIRST/Planck transfer to L2 orbit; graphics of FIRST transfer to Halo orbit and Planck transfer to Lissajous orbit. </plain>

**Keywords:** PLANCK,SPACE SCIENCE,FIRST

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101072

**Title:** Cluster Animations: CME / Magenetosphere

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 03/30/2000

**Length:** 14

**Comments:** <plain>This video contains variations of short sequence 3-D graphics illustrating solar Coronal Mass Ejection (CME) events and their effect on near-Earth space. The largely empty space between the planets is dominated by the solar wind -a stream of electrically charged particles- which are ejected at supersonic speeds by the Sun. The Earth's magnetosphere acts as a protection from these solar storm but there are two weak points in Earth's defence, occurring near the planet's north and south magnetic poles. ESA's Cluster 2 mission, launched in 2000, will exploit a once in a 11-year opportunity of peak solar activity to study the sun's impact on the earth. The effects of this peak range from the appearance of auroras in the polar night sky, to the malfunction of satellites and disruption of power networks.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101072

**Title:** Cluster Animations: CME / Magenetosphere

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 03/30/2000

**Length:** 14

**Comments:** <plain>This video contains variations of short sequence 3-D graphics illustrating solar Coronal Mass Ejection (CME) events and their effect on near-Earth space. The largely empty space between the planets is dominated by the solar wind -a stream of electrically charged particles- which are ejected at supersonic speeds by the Sun. The Earth's magnetosphere acts as a protection from these solar storm but there are two weak points in Earth's defence, occurring near the planet's north and south magnetic poles. ESA's Cluster 2 mission, launched in 2000, will exploit a once in a 11-year opportunity of peak solar activity to study the sun's impact on the earth. The effects of this peak range from the appearance of auroras in the polar night sky, to the malfunction of satellites and disruption of power networks.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00101072

**Title:** Cluster Animations: CME / Magenetosphere

**Type:** Original Material

**Category:** Graphics

**Language:** Mute

**Production Date:** 03/30/2000

**Length:** 14

**Comments:** <plain>This video contains variations of short sequence 3-D graphics illustrating solar Coronal Mass Ejection (CME) events and their effect on near-Earth space. Graphics include: Coronal Mass Ejections; molecular agitation; earth magnetosphere; satellite destruction. The largely empty space between the planets is dominated by the solar wind stream of electrically charged particles- which are ejected ; supersonic speeds by the Sun. The Earth's magnetosphere acts as a protection from these solar storms, but there are two weak points in Earth's defence, occuring near the plan north and south magnetic poles. ESA's Cluster 2 mission, launched in 2000, will exploit a once in an 11-year oportur of peak solar activity to study the sun's impact on the earth. The effects of this peak range from the appearance of auroras in the polar night sky, to the malfunction of satellite and disruption of power networks.</plain>

**Keywords:** SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101092

**Title:** STS-93 Post Flight Crew Presentation

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 08/19/1999

**Length:** 17

**Comments:** <plain>NASA's STS-93 mission was launched from Kennec Space Centre, on July 23, 1999. Its primary payload was th Chandra X-Ray Observatory, designed to observe X-rays from high energy regions of the universe, such as hot gas i the remnants of exploded stars. The shuttle mission was commanded for the first time by a woman, Eileen Collins. Other crew members are Jeffrey S. Ashby, pilot, and missi specialists Steven A. Hawley, Catherine G. Coleman, and CNES atronaut, Michel Tognini, whose previous experience includes the 1992 Antares mission to Mir. This video provides a post flight summary of the mission, including cre training, with commentary by STS-93 crew.</plain>

**Keywords:** NASA GENERAL,SHUTTLE MISSIONS,SPACE SCIENCE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101112

**Title:** ESA: Commissioners Visit 2000

**Type:** Selected Rushes

**Category:** multimedia VNR

**Language:** French / Spanish

**Production Date:** 02/08/2000

**Length:** 21

**Comments:** <plain>This video provides highlights of the visit, on 7 February 2000, to ESA's Research and Technology Centre, ESTEC, in the Netherlands, by Ms Loyola de Palacio, European Commissioner for Transport and Energy, and Mr. Philippe Busquin, Commissioner for Research. The Commission and ESA are drafting a joint European space strategy, emphasising the importance of coordination in European research. Discussions with ESA's Director General, Antonio Rodota, focused on Europe's satellite navigation programme Galileo, and ESA's new initiative to monitor hazardous cargo movements at sea. Footage includes: gvs' arrival of Commissioners; i/v with Ms. Loyola de Palacio (Spanish); i/v with Mr. Pierre Busquin (French); gvs' Commissioners visit ESTEC clean rooms, Rosetta comet chaser space probe and Artemis communications an navigation satellite; gvs' demonstration of European navigation satellite components.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101194

**Title:** Envisat Integration: Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/13/2000

**Length:** 23

**Comments:** <plain>This video contains rushes, filmed on 13 April 2000, of the complete Envisat-1 satellite in the cleanroom at ESA-ESTEC, Noordwijk, Netherlands. Includes footage of the mating of the Service Module with the Payload Module. Due for launch by Ariane 5 in June 2001, Envisat-1 is an advanced polar-orbiting Earth Observation satellite, which will provide measurements of the atmosphere, ocean land and ice over a five year period. As a successor to ES ERS-1 and ERS-2 spacecraft, Envisat will collect remote sensing data which will support Earth science research an allow monitoring of the evolution of environmental and climate changes. </plain>

**Keywords:** ENVISAT,REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101194

**Title:** Envisat Integration: Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/13/2000

**Length:** 23

**Comments:** <plain>This video contains rushes, filmed on 13 April 2000, of the complete Envisat-1 satellite in the cleanroom at ESA-ESTEC, Noordwijk, Netherlands. Includes footage of the mating of the Service Module with the Payload Module. Due for launch by Ariane 5 in June 2001, Envisat-1 is an advanced polar-orbiting Earth Observation satellite, which will provide measurements of the atmosphere, ocean land and ice over a five year period. As a successor to ES ERS-1 and ERS-2 spacecraft, Envisat will collect remote sensing data which will support Earth science research and allow monitoring of the evolution of environmental and climate changes. </plain>

**Keywords:** ENVISAT,REMOTE SENSING

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101194

**Title:** Envisat Integration: Rushes 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/13/2000

**Length:** 23

**Comments:** <plain>This video contains rushes, filmed on 13 April 2000, of the complete Envisat-1 satellite in the cleanroom at ESA-ESTEC, Noordwijk, Netherlands. Includes footage of the mating of the Service Module with the Payload Module. Due for launch by Ariane 5 in June 2001, Envisat-1 is an advanced polar-orbiting Earth Observation satellite, which will provide measurements of the atmosphere, ocean land and ice over a five year period. As a successor to ES ERS-1 and ERS-2 spacecraft, Envisat will collect remote sensing data which will support Earth science research and allow monitoring of the evolution of environmental and climate changes. </plain>

**Keywords:** REMOTE SENSING,ENVISAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101212

**Title:** Kiruna Rushes: Stratospheric Balloon Campaign

**Type:** Rushes

**Category:** live-action recordings

**Language:** Various

**Production Date:** 03/01/2000

**Length:** 45

**Comments:** <plain>This video contains various footage of the stratospheric balloon launch campaign at Erange, Kiruna, Sweden, including interviews with Michel Bas, CNES Balloon Launch Director. These activities form part of European earth observation research into the study and monitoring of ozone climate interaction, and complement remote sensing satellite systems in collecting data on the Earth's atmosphere.</plain>

**Keywords:** EARTH OBSERVATION

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101213

**Title:** Kiruna Rushes: ESRANGE

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 03/01/2000

**Length:** 28

**Comments:** <plain>This video provides a compilation of background location footage, filmed at ESRANGE, Kiruna, Northern Sweden, ESA's arctic launch facility and control centre. COMPREHENSIVE SHOTLIST AVAILABLE.</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101214

**Title:** Kiruna Rushes: ESA Ground Station

**Type:** Rushes

**Category:** live-action recordings

**Language:** Natural Sound / English

**Production Date:** 03/01/2000

**Length:** 36

**Comments:** <plain>This video contains a compilation of background location footage, filmed at the ESA ground station, in Salmijarvi, Kiruna, Northern Sweden. ESOC engineers maintain a global network of "ground systems", where the antennas and systems needed to communicate with satellites are located. The Kiruna station primarily supports the European Remote Sensing satellites, ERS-1 and ERS-2, but also operates the Envisat and Cluster control room.  
COMPREHENSIVE SHOTLIST AVAILABLE. </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101232

**Title:** Kiruna Rushes: Texus 37 and 38 Campaign

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English and French

**Production Date:** 03/01/2000

**Length:** 76

**Comments:** <plain>This video contains comprehensive footage, including detailed explanatory interviews, on the Texus 37 - 38 campaign, conducted at ESA's arctic launch facility and control centre, Esrange, Kiruna, Sweden. The Texus programme provides the opportunity for scientists to conduct space experiments, focusing on the physical sciences and biology, in a microgravity environment. Experiment modules can be flown on sounding rockets such as Texus, which offers 6 minutes of microgravity. ESA has been running flight campaigns with Texus since 1977. Footage includes: technicians with experiment module for Texus 37; i/v with Dr. Michael Dreyer, Centre of Applied Space Technology and Microgravity, University of Bremen, Germany [English]; assembly of Texus 37; i/v with Prof. Markus Braun, Botanical Institute, University of Bonn [English]; Braun prepares experiment lamella; views of Texus launch tower with Prof. Dieter Volkmann, Botanical Institute, University of Bonn [English]; Volkmann in laboratory; technicians work on booster stage of sounding rocket; i/v with Burkhard Franke, Head of Sounding Rocket Programs Texus/Maxus, Daimler Benz Aerospace AG [English]; various shots of Texus 38 rollout to launch pad; preparation of second stage of Texus 38; Texus 37 in launch tower; launch tower by night; Esrange operations centre; various shots of Texus launch tower at countdown to launch; launch of Texus 37; various shots of Texus 38 launch; scientists watch launch on computer screen; i/v with Peter Turner, Head of Mobile Rocket Base, DLR, German Aerospace Centre [English]; various views of mobile telemetry station interior; telemetry station computer monitor shows Texus launch; Delphin helicopter takes off from Esrange main building for recovery; helicopter arrives at recovery site; views of recovery site; retrieval of payload and experiment module; experiment module in laboratory; helicopter returns payload; payload transported to hangar; technicians disassemble Texus 37; i/v with Markus Braun, Botanical Institute, University of Bonn [English]; Braun examines cell samples; i/v with Dieter Volkmann, Botanical Institute, University of Bonn [English]; Volkmann examines recovered plant specimens; i/v with Prof. Gunther Froberg, Technical University, Berlin, and ESA Project Scientist for Sounding Rocket Programs [English]; i/v with Iskender Gokalp, Research Director, Vaporisation of Fuel Droplets Experiment Module, TEM EVA, Texus 38 [French/English]; i/v with Wolfgang Herfs, ESA Payload Manager, Sounding Rocket Projects [English]. </plain>

**Keywords:** ESA GENERAL,MICROGRAVITY

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101232

**Title:** Kiruna Rushes: Texus 37 and 38 Campaign

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English and French

**Production Date:** 03/01/2000

**Length:** 76

**Comments:** <plain>This video contains comprehensive footage, including detailed explanatory interviews, on the Texus 37 - 38 campaign, conducted at ESA's arctic launch facility and control centre, Esrange, Kiruna, Sweden. The Texus programme provides the opportunity for scientists to conduct space experiments, focusing on the physical sciences and biology, in a microgravity environment. Experiment modules can be flown on sounding rockets such as Texus, which offers 6 minutes of microgravity. ESA has been running flight campaigns with Texus since 1977. Footage includes: technicians with experiment module for Texus 37; i/v with Dr. Michael Dreyer, Centre of Applied Space Technology and Microgravity, University of Bremen, Germany [English]; assembly of Texus 37; i/v with Prof. Markus Braun, Botanical Institute, University of Bonn [English]; Braun prepares experiment lamella; views of Texus launch tower with Prof. Dieter Volkmann, Botanical Institute, University of Bonn [English]; Volkmann in laboratory; technicians work on booster stage of sounding rocket; i/v with Burkhard Franke, Head of Sounding Rocket Programs Texus/Maxus, Daimler Benz Aerospace AG [English]; various shots of Texus 38 rollout to launch pad; preparation of second stage of Texus 38; Texus 37 in launch tower; launch tower by night; Esrange operations centre; various shots of Texus launch tower at countdown to launch; launch of Texus 37; various shots of Texus 38 launch; scientists watch launch on computer screen; i/v with Peter Turner, Head of Mobile Rocket Base, DLR, German Aerospace Centre [English]; various views of mobile telemetry station interior; telemetry station computer monitor shows Texus launch; Delphin helicopter takes off from Esrange main building for recovery; helicopter arrives at recovery site; views of recovery site; retrieval of payload and experiment module; experiment module in laboratory; helicopter returns payload; payload transported to hangar; technicians disassemble Texus 37; i/v with Markus Braun, Botanical Institute, University of Bonn [English]; Braun examines cell samples; i/v with Dieter Volkmann, Botanical Institute, University of Bonn [English]; Volkmann examines recovered plant specimens; i/v with Prof. Gunther Froberg, Technical University, Berlin, and ESA Project Scientist for Sounding Rocket Programs [English]; i/v with Iskender Gokalp, Research Director, Vaporisation of Fuel Droplets Experiment Module, TEM EVA, Texus 38 [French/English]; i/v with Wolfgang Herfs, ESA Payload Manager, Sounding Rocket Projects [English]. </plain>

**Keywords:** MICROGRAVITY,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101253

**Title:** ESA HQ 1997

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 10/20/1997

**Length:** 10

**Comments:** <plain>General interior and exterior stock shots of ESA Headquarters, Paris, France. This footage can also be found on the video ESA Establishments 1997 (Production No. 00100415). </plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101272

**Title:** ESTEC Helicopter Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 06/01/1999

**Length:** 36

**Comments:** <plain>Footage of ESTEC, the European Space Research and Technology Centre, and surrounding area, recorded from a helicopter. ESTEC is located at Noordwijk, in the Netherlands.</plain>

**Keywords:** ESTEC,ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00101273

**Title:** Ariane 504 / XMM Real Time Graphics 1

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 12/07/1999

**Length:** 36

**Comments** <plain>Real-time graphics which depict Ariane 504 flight sequence including booster separation, fairing jettison, end main stage burn, separation of XMM satellite, XMM into orbit.</plain>

**Keywords** ARIANE 5,XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101273

**Title:** Ariane 504 / XMM Real Time Graphics 1

**Type:** Original Material

**Category:** Graphics

**Language** Mute

**Production Date** 12/07/1999

**Length:** 36

**Comments** <plain>Real-time graphics which depict Ariane 504 flight sequence including booster separation, fairing jettison, end main stage burn, separation of XMM satellite, XMM into orbit.</plain>

**Keywords** ARIANE 5,XMM

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101292

**Title:** Pietro Baglioni Interview: Rushes 1

**Type:** Rushes

**Category:** Interviews

**Language:** English

**Production Date:** 02/24/2000

**Length:** 32

**Comments:** <plain>Rushes of interview with Pietro Baglioni, Systems Engineer, Microgravity Payload Projects Division, ESA. Baglioni discusses the IRDT (Inflatable Re-entry and Descent Technology) project, conducted in order to validate a new technology for reduced velocity re-entry into the atmosphere. The IRDT system was deployed on the Soyuz-Fregat qualification flight from Baikonur Cosmodrome, Kazakhstan, Russia, on 9 February 2000. The interview also provides soundbites on ESA's microgravity programmes, including the astro-biology experiment Stone, which was carried on the Russian recoverable capsule for research, Foton-12, launched on a Soyuz-2 rocket from the Cosmodrome Plesetsk, Russia, on 9 September 1999. </plain>

**Keywords:** MICROGRAVITY

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101293

**Title:** Pietro Baglioni Interview: Rushes 2

**Type:** Rushes

**Category:** Interviews

**Language:** English

**Production Date:** 02/24/1999

**Length:** 13

**Comments:** <plain>Rushes of interview with Pietro Baglioni, Systems Engineer, Microgravity Payload Projects Division, ESA. Provides soundbites on the veteran Biopan facility, created support various astro-biology research in space, and on the Stone 1 experiment, mounted in the heat shield of Foton-12. Biopan was an element of the Foton-12 payload, installed in the fairing of the Soyuz-2 launcher. The Stone experiment simulates the entry of meteorites into the Earth's atmosphere. The Foton-12 mission was launched from the Cosmodrome Plesetsk, Russia, on 9 September 1999. The Soyuz-Fregat qualification flight, launched from Baikonur Cosmodrome, Kazakhstan, Russia, on 9 February 2000, provided scientists with a further opportunity to conduct the Stone 2 experiment mounted in the IRDT system. ESA's participation in the Foton-12 mission, and other microgravity programmes, will benefit future research such as the facility Expose, to be installed on the International Space Station (ISS). This video also contains the music clip, Soyuz-Fregat Qualification Flight. [01:39:05:00 - 01:45:14:00].</plain>

**Keywords:** MICROGRAVITY

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101295

**Title:** Foton-12 Mission: Launch and Recovery

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 09/24/2000

**Length:** 36

**Comments:** <plain> The Russian recoverable satellite for research, Foton-12, was launched by a Soyuz-2 rocket, from Plesetsk Cosmodrome, Russia, on 9 September 1999, as part of a continuing programme of microgravity research. The Foton-12 mission is an international project under the leadership of the Russian Space Agency (RKA), with participation in the experimental payload by the European Space Agency (ESA), the German Space Agency (DLR) and French Space Agency (CNES). ESA's scientific contribution included ten experiments, seven of which used the Biopan and Fluidpac facilities. The experiment Stone simulates the entry of meteorites into the Earth's atmosphere. Foton-12 remained in low-Earth orbit for 15 days, safely landing 133 km. north-west of Orenburg, Russia, on 24 September 1999. ESA scientists and engineers monitored the mission from two different locations: the TeleScience Centre, Esrange, Kiruna, Sweden and the KB Photon User Centre, Samara, Russia, which has direct links to the Foton-12 Flight Control Centre, Moscow. ESA personnel were included in the recovery team, travelling to the landing site to retrieve Biopan and Fluidpac experiments. This video contains footage of the Foton-12 mission including: Foton-12 Flight Control Centre, Moscow; gvs' Foton-12 capsule; Foton-12 integration; gvs' Soyuz launcher; launch of Foton-12 mission, Cosmodrome Plesetsk; scientists and engineers travel to military airfield, close to Orenburg; hotel interiors, Orenburg; gvs' recovery team (including ESA members); various Stone simulation tests; flyover Foton-12 landing site. </plain>

**Keywords:** MICROGRAVITY

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101295

**Title:** Foton-12 Mission: Launch and Recovery

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 09/24/2000

**Length:** 36

**Comments:** <plain> The Russian recoverable satellite for research, Foton-12, was launched by a Soyuz-2 rocket, from Plesetsk Cosmodrome, Russia, on 9 September 1999, as part of a continuing programme of microgravity research. The Foton-12 mission is an international project under the leadership of the Russian Space Agency (RKA), with participation in the experimental payload by the European Space Agency (ESA), German Space Agency (DLR) and French Space Agency (CNES). ESA's scientific contribution included ten experiments, seven of which used the Biopan and Fluidpac facilities. The experiment Stone simulates the entry of meteorites into the Earth's atmosphere. Foton-12 remained in low-Earth orbit for 15 days, safely landing 133 km. north-west of Orenburg, Russia, on 24 September 1999. ESA scientists and engineers monitored the mission from two different locations: the TeleScience Centre, Esrange, Kiruna, Sweden and the KB Photon User Centre, Samara, Russia, which has direct links to the Foton-12 Flight Control Centre, Moscow. ESA personnel were included in the recovery team, travelling to the landing site to retrieve Biopan and Fluidpac experiments. This video contains footage of the Foton-12 mission including: Foton-12 Flight Control Centre, Moscow; gvs' Foton-12 capsule; Foton-12 integration; gvs' Soyuz launcher; launch of Foton-12 mission, Cosmodrome Plesetsk; scientists and engineers travel to military airfield, close to Orenburg; hotel interiors, Orenburg; gvs' recovery team (including ESA members); various Stone simulation tests; flyover Foton-12 landing site. </plain>

**Keywords:** MICROGRAVITY

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101312

**Title:** Foton-12 Mission: Experiments

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 09/24/1999

**Length:** 18

**Comments:** <plain>The Russian recoverable satellite for research, Foton-12, was launched by a Soyuz-2 rocket, from Plesetsk Cosmodrome, Russia, on 9 September 1999, as part of a continuing programme of microgravity research. The Foton-12 mission was an international project under the leadership of the Russian Space Agency (RKA), with participation in the experimental payload by the European Space Agency (ESA), German Space Agency (DLR) and French Space Agency (CNES). ESA's scientific contribution included ten experiments, seven of which used the Biopan and Fluidpac facilities. Foton-12 remained in low-Earth orbit for 15 days, safely landing 133 km. north-west of Orenburg, Russia, on 20 September 1999. This video contains footage on the integration of ESA experiments into the Foton-12 capsule at Plesetsk Cosmodrome, Russia; interviews with ESA expert including Pietro Baglioni, Systems Engineer, Microgravity Payload Projects Division; and still images of Foton-12 capsule, experiment integration, Soyuz-2 launchpad, Plesetsk. </plain>

**Keywords:** MICROGRAVITY

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101312

**Title:** Foton-12 Mission: Experiments

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 09/24/1999

**Length:** 18

**Comments:** <plain>The Russian recoverable satellite for research, Foton-12, was launched by a Soyuz-2 rocket, from Plesetsk Cosmodrome, Russia, on 9 September 1999, as part of a continuing programme of microgravity research. The Foton-12 mission was an international project under the leadership of the Russian Space Agency (RKA), with participation in the experimental payload by the European Space Agency (ESA), German Space Agency (DLR) and French Space Agency (CNES). ESA's scientific contribution included ten experiments, seven of which used the Biopan and Fluidpac facilities. Foton-12 remained in low-Earth orbit for 15 days, safely landing 133 km. north-west of Orenburg, Russia, on 24 September 1999. This video contains footage on the integration of ESA experiments into the Foton-12 capsule at Plesetsk Cosmodrome, Russia; interviews with ESA expert including Pietro Baglioni, Systems Engineer, Microgravity Payload Projects Division; and still images of Foton-12 capsule, experiment integration, Soyuz-2 launchpad, Plesetsk. </plain>

**Keywords:** MICROGRAVITY

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101332

**Title:** Ariane 4 Vol 129 Pre-Launch Highlights

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** Natural Sound Only

**Production Date:** 04/18/2000

**Length:** 15

**Comments:** <plain>The Ariane 4 Vol 129 was launched from Kourou, French Guiana, on 18 April 2000, placing the Galaxy 4R satellite into geostationary transfer orbit. This video contains pre-launch footage arranged as follows: gvs' arrival of MN Toucan vessel at Kourou; delivery of launcher parts to Kourou Launch Base; launcher main stage raised upright in Boost Integration Building; mating of solid-propellant boosters; second stage of launcher integrated; integration of cryogenic central stage; transfer of launcher to Final Assembly Building (BAF); arrival of Galaxy 4R satellite by plane; arrival of Galaxy 4R satellite in cleanroom; satellite fuelled; satellite lowered onto exhaust nozzle; satellite enclosed in payload fairing; logo applied to payload fairing; transfer of Galaxy satellite to Final Assembly Building (BAF); integration with launcher.</plain>

**Keywords:** LAUNCHERS

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101352

**Title:** Life Support: Columbus Laboratory

**Type:** Rushes

**Category:** live-action recordings

**Language:** German

**Production Date:** 03/23/2000

**Length:** 17

**Comments:** <plain>Rushes of interview on Columbus Laboratory with Johannes Witt, ESA Life Support Systems expert, and B-roll footage filmed inside the Columbus Laboratory (COF) mock-up. The Columbus Laboratory (or Columbus Orbital Facility) is a pressurised, habitable module which will be attached to Node 2 of the International Space Station (ISS). The structure is derived from the Italian mini-Pressurised Logistics Module (MPLM). It is designed as a general purpose laboratory which can support any foreseen user discipline, including materials and fluid sciences, life sciences and technology development.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00101372

**Title:** EPOS competition prize award highlights

**Type:** Selected Rushes

**Category:** VNR

**Language** Natural Sound / English

**Production Date** 00/00/00

**Length:** 10

**Comments:** <plain>In 2000, ESA organised a competition of groups of youngsters called "European Project of the Sun". The best entries were included into a travelling exhibition shown at fi science museums in 2000/2001. This programme includes selected rushes from the presentations of the five winning groups, and the ceremony of the award of the final prize to group from Italy. Hugo Mar?e (ESA Science Programme) introduces the event.</plain>

**Keywords**

**Shotlist** <plain></plain>

**Use:** commercial

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**Pouction no.** 00101377

**Title:** STS-92 Mlssion Briefing

**Type:** Original Material

**Category:** live-action recordings

**Language** English

**Production Date** 00/00/00

**Length:** 54

**Comments:** <plain>Downlink of NASA TV of the STS-92 Mission Briefing. Outline of the STS-92 mission to the International Space Station to install the Z-1 Truss and Pressurized Mating, Adapter 3 and to perform 4 space walks. Soundbite from Chuck Shaw, STS-92 Lead Flight Director and Sally Davis, ISS Lead Flight Director.</plain>

**Keywords** SHUTTLE MISSIONS

**Shotlist** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101379

**Title:** NASA TV - Exp. One Crew on ISS first images

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>NASA feed (02/11/00) of the first images of the Expedition One Crew on board the International Space Station. Commentary by Kyle Herring from the Mission Control Center, Korolev. Replay of the crews ingress into t International Space Station. Translation from female translator in the Russian Flight Control Room. Includes congratulations from the Flight Control Room to the ISS where the astronauts celebrate. The Expedition One Crew comprises of Commander Bill Shepherd (US), Soyuz Commander Yuri Gidzenko (Russia) and Flight Engineer Sergei Krikelev (Russia).</plain>

**Keywords:** EXPEDITION ONE CREW,INTERNATIONAL SPACE STAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101380

**Title:** First Cluster II Launch - Feed From Baikonur (16/07/00)

**Type:** Rushes

**Category:** live-action recordings

**Language:** Mute

**Production Date:** 00/00/00

**Length:** 24

**Comments:** <plain>First of the two Cluster II launches. Live feed from Baikanour. No sound</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101381

**Title:** First Cluster II Launch - Live Televised Launch Transmission

**Type:** Original Material

**Category:** live-action recordings

**Language:** English and French

**Production Date:** 00/00/00

**Length:** 33

**Comments:** <plain>Live televised programme of the first Cluster II launch made in the television studio at ESTEC on 16 July 2000. Presenter in studio Katy Haswell and includes interviews with and soundbites from Vladamir Kotine Cluster Technical Manager, Howard Nye Former Ground Segment Manager for XMM, Manfred Warhout Cluster Ground Segment Manager, Andre Balogh Principal Investigator FGM, Pierette Decreau Principal Investigator WHISPER. Launch without commentary initially and international sound. 3-D graphics of launch and release of Cluster II satellites. Replay of launch the end of the programme.</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101382

**Title:** Exp. One Crew Docks with ISS - Live ESA Programme (02/

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 28

**Comments:** <plain>Live televised programme of the Soyuz Capsule carrying the Expedition One Crew as it docks with the ISS. Introduction of programme by Christian Feichtinger and Thomas Reichter from the TsUP Control Centre in Moscow. Replay of the highlights of the Expedition One Crew Launch. More commentary by Feichtinger and Reichter. Display screens of the TsUP control Centre with explanations by Feichtinger and Reichter. Live views of from the Soyuz capsule docking with the ISS filmed from the display screen. People applauding in TsUP Control Centre. 3-D graphics of what the crew will see when they enter the ISS. Final comments by Feichtinger and Reichter.</plain>

**Keywords:** EXPEDITION ONE CREW

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101383

**Title:** Exp. One Crew enters ISS - Live ESA Programme (02/11/00)

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 23

**Comments:** <plain>Live ESA programme of the Expedition One Crews ingress and first live images of them on board the International Space Station. Introduction and commentary by Christian Feichtinger and Thomas Reichter from the TsUP Control Centre in Moscow. Thomas Reichter interviews Frank Longhurst, ESA Special Advisor. First live images of the crew on board the ISS, poor quality. Payout of the recordings of the Expedition One Crews ingress onto the ISS. More comments by Frank Longhurst and final comments by Feichtinger and Reichter.</plain>

**Keywords:** EXPEDITION ONE CREW,INTERNATIONAL SPACE STAT

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101392

**Title:** Second Cluster II Launch - Live Televised Transmission (09

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 130

**Comments:** <plain>Live televised programme of the second Cluster II launch made on 09 August 2000. Presenter in Studio Katy Haswell. Includes interviews and soundbites from the following: Alan Smith - Flight Operations Director for the first launch, Pierre Marx - Technical Director, Starsem, Howard Nye - ESA Ground Segment Manager, Andrew Fazakerley - Principal Investigator, PEACE, Andrew Balough - Principal Investigator, FGM, Philippe Escourbet - ESA Cluster Project Scientist, Roger Bonnet - Director of Science, ESA, Jean-Yves le Gall - Chairman and CEO, Starsem</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101392

**Title:** Second Cluster II Launch - Live Televised Transmission (09

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 130

**Comments:** <plain>Live televised programme of the second Cluster II launch made on 09 August 2000. Presenter in Studio Katy Haswell. Includes interviews and soundbites from the following: Alan Smith - Flight Operations Director for the first launch Piere Marx - Technical Director, Starsem Howard Nye - ESA Ground Segment Manager Andrew Fazakerley - Principal Investigator, PEACE Andrew Balough - Principal Investigator, FGM Philippe Escourbet - ESA Cluster Project Scientist Roger Bonnet - Director of Science, ESA Jean-Yves le Gall - Chairmen and CEO, Starsem</plain>

**Keywords:** CLUSTER

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101395

**Title:** HST Solar Panels Transport - Camera 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** natural sound

**Production Date:** 00/00/00

**Length:** 32

**Comments:** <plain>On the 18 October 2000 the Hubble Space Telescope's new solar panels were flown to Schiphol airport to be brought to ESA's ESTEC site in The Netherlands for testing. The tape contains rushes of the transportation of the solar panels from the airport to ESTEC.</plain>

**Keywords:** HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101396

**Title:** HST Solar Panels Transport - Camera 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** natural sound

**Production Date:** 00/00/00

**Length:** 30

**Comments:** <plain>On the 18 October 2000 the Hubble Space Telescope's new solar panels were flown to Schiphol airport to be brought to ESA's ESTEC site in The Netherlands for testing. The tape contains rushes of the transportation of the solar panels from the airport to ESTEC.</plain>

**Keywords:** HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101397

**Title:** HST Solar Panels Testing - Rushes Tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 35

**Comments:** <plain>On the 18 October 2000 the Hubble Space Telescope's (HST) new solar panels were flown to Schiphol airport to be brought to ESA's ESTEC site in The Netherlands for testing. The tape contains rushes of the solar panels being unpacked in the cleanroom of the test facilities and being prepared to be loaded into the Large Space Simulator (LSS) for testing. Includes soundbites by System Engineers for the HST.</plain>

**Keywords:** HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101398

**Title:** HST Solar Panels Testing - Rushes Tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 28

**Comments:** <plain>On the 18 October 2000 the Hubble Space Telescope's (HST) new solar panels were flown to Schiphol airport to be brought to the ESA's ESTEC site in The Netherlands for testing in the Large Space Simulator (LSS). The tape contains rushes of the solar panels being loaded into the LSS and includes soundbites by HST solar array managers.</plain>

**Keywords:** HUBBLE SPACE TELESCOPE

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101412

**Title:** STS-98 Crew News Conference

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 46

**Comments:** <plain>The primary objective of shuttle mission STS-98 is to deliver and install the U.S. Destiny Laboratory onto the International Space Station. Also, the STS-98 astronauts will relocate Pressurized Mating Adapter 2 from the Unity Node to the forward Common Berthing Mechanism on Destiny. While at the station, the astronauts will conduct three spacewalks and use Space Shuttle Atlantis' robotic arm to complete these tasks. The Crew News Conference comprises of Commander Ken Cockrell introducing his crew and their main roles on the mission. His crew are Pilot Mark Polansky, and Mission Specialists Robert Curbeam, Marsha Ivins and Thomas Jones. At the end of the introductions the crew will answer various questions from broadcasters and journalists. The Space Shuttle Atlantis successfully launched on the evening of Wednesday 7 February, 2001.</plain>

**Keywords:** SHUTTLE MISSIONS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101414

**Title:** Destiny Laboratory Overview

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 40

**Comments:** <plain>The Destiny Laboratory was successfully launched part of the STS-98 mission onboard the Atlantis Space Shuttle on the 7 February 2001. It was subsequently attached to the International Space Station using a combination of the Shuttle's robotic arm and three space walks. Prior to the launch NASA-TV transmitted a Destiny Laboratory Overview. This tape is a recording of that overview and includes a detailed description of the Destiny Laboratory by Susan Voss, STS-98 Launch Package Margaer, with video inserts and stills of Destiny Laboratory construction and preparation. This presentation is followed by questions from journalists and broadcasters.</plain>

**Keywords:** INTERNATIONAL SPACE STATION

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101415

**Title:** NEAR Shoemaker Landing on EROS

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>On the 12 February 2001 at 20:02:10 GMT the NEAR Shoemaker spacecraft traveled its last mile, cruising down the surface of Eros at a gentle 4 mph, finally coming to rest after its 2-million mile journey. These are the live recordings: downlinked from NASA-TV of the NEAR Mission Operation: Centre, Johns Hopkins University Applied Physics Laboratory, of the final moments before and during the touchdown of NEAR. Included in the live recordings are final statements and soundbites by those present including mission experts and NASA officials, and also the last image from NEAR as viewed on the control room monitors. The spacecraft spent the last year in a close-orbit study of asteroid 433 Eros, a near-Earth asteroid that is currently 196 million miles (316 million kilometers) from Earth. During that time it collected 10 times more data than originally planned and completed all its science goals before attempting its descent to the asteroid.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast



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**Pouction no.** 00101415

**Title:** NEAR Shoemaker Landing on EROS

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 59

**Comments:** <plain>On the 12 February 2001 at 20:02:10 GMT the NEAR Shoemaker spacecraft traveled its last mile, cruising down the surface of Eros at a gentle 4 mph, finally coming to rest after its 2-million mile journey. These are the live recordings downlinked from NASA-TV of the NEAR Mission Operations Centre, Johns Hopkins University Applied Physics Laboratory, of the final moments before and during the touchdown of NEAR. Included in the live recordings are final statements and soundbites by those present including mission experts and NASA officials, and also the last image from NEAR as viewed on the control room monitors. The spacecraft spent the last year in a close-orbit study of asteroid 433 Eros, a near-Earth asteroid that is currently 196 million miles (316 million kilometers) from Earth. During that time it collected 10 times more data than originally planned and completed all its science goals before attempting its descent to the asteroid.</plain>

**Keywords:** NASA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101417

**Title:** ESA TV Leaders

**Type:** Original Material

**Category:** various

**Language:** ME only

**Production Date:** 00/00/00

**Length:** 6

**Comments:** <plain>Four different leader movies for the ESA TV Service made March 2001 and comprise of leader movies for the different types of transmission made by the ESA TV Service: 5 Second Countdown on ESA logo Leader for ESA TV Footage Leader for ESA TV Live Leader for ESA TV Exchange</plain>

**Keywords:** ESA GENERAL

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101419

**Title:** Artemis - Pre-shipment Rushes Tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>ESA's advanced communication satellite, Artemis, is ready to be shipped to Kourou for its launch on the Ariane 5 launcher in the summer of 2001. Artemis is not the conventional type of communication satellite. In particular it differs in one very important aspect; none of its payloads connects a fixed point on the Earth with other fixed points on the Earth. Instead, Artemis will connect users on the ground with satellites in orbit via its radio frequency data relay payload. This dramatically increases communication time with spacecraft in low-Earth orbit. This video contains rushes of Artemis, ready to be crated up for shipping, filmed in a cleanroom ESA's space research technology centre, ESTEC in Noordwijk, the Netherlands on 21 February 2001.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101419

**Title:** Artemis - Pre-shipment Rushes Tape 1

**Type:** Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>ESA's advanced communication satellite, Artemis, is ready to be shipped to Kourou for its launch on the Ariane 5 launcher in the summer of 2001. Artemis is not the conventional type of communication satellite. In particular it differs in one very important aspect; none of its payloads connects a fixed point on the Earth with other fixed points on the Earth. Instead, Artemis will connect users on the ground with satellites in orbit via its radio frequency data relay payload. This dramatically increases communication time with spacecraft in low-Earth orbit. This video contains rushes of Artemis, ready to be crated up for shipping, filmed in a cleanroom ESA's space research technology centre, ESTEC in Noordwijk, the Netherlands on 21 February 2001.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101420

**Title:** Artemis - Pre-shipment Rushes Tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>ESA's advanced communication satellite, Artemis, is ready to be shipped to Kourou for its launch on the Ariane 5 launcher in the summer of 2001. Artemis is no the conventional type of communication satellite. In particular it differs in one very important aspect; none of its payloads connects a fixed point on the Earth with other fixed points on the Earth. Instead, Artemis will connect users on the ground with satellites in orbit via its radio frequency data relay payload. This dramatically increases communication time with spacecraft in low-Earth orbit. This video contains rushes of Artemis as it is being lifted into its shipment crate, filmed in a cleanroom at ESA's space research and technology centre ESTEC in Noordwijk, the Netherlands on 22 February 2001.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101420

**Title:** Artemis - Pre-shipment Rushes Tape 2

**Type:** Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 26

**Comments:** <plain>ESA's advanced communication satellite, Artemis, is ready to be shipped to Kourou for its launch on the Ariane 5 launcher in the summer of 2001. Artemis is no the conventional type of communication satellite. In particular it differs in one very important aspect; none of its payloads connects a fixed point on the Earth with other fixed points on the Earth. Instead, Artemis will connect users on the ground with satellites in orbit via its radio frequency data relay payload. This dramatically increases communication time with spacecraft in low-Earth orbit. This video contains rushes of Artemis as it is being lifted into its shipment crate, filmed in a cleanroom at ESA's space research and technology centre ESTEC in Noordwijk, the Netherlands on 22 February 2001.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101421

**Title:** Artemis - Pre-shipment Rushes Tape 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 19

**Comments:** <plain>ESA's advanced communication satellite, Artemis, is ready to be shipped to Kourou for launch on Ariane 5 in the summer of 2001. Artemis is not the conventional type of communication satellite. In particular it differs in one very important aspect: none of its payloads connects a fixed point on the Earth with other fixed points on the Earth. Instead, Artemis will connect users on the ground with satellites in orbit via its radio frequency data relay payload. This dramatically increases communication time with spacecraft low-Earth orbit. This video contains rushes of Artemis as the lid is placed on its crate ready for shipping. The rushes were filmed in the cleanroom of ESA's space research and technology centre, ESTEC, in Noordwijk, the Netherlands on 24 February 2001.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101421

**Title:** Artemis - Pre-shipment Rushes Tape 3

**Type:** Rushes

**Category:** live-action recordings

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 19

**Comments:** <plain>ESA's advanced communication satellite, Artemis, is ready to be shipped to Kourou for launch on Ariane 5 in the summer of 2001. Artemis is not the conventional type of communication satellite. In particular it differs in one very important aspect: none of its payloads connects a fixed point on the Earth with other fixed points on the Earth. Instead, Artemis will connect users on the ground with satellites in orbit via its radio frequency data relay payload. This dramatically increases communication time with spacecraft low-Earth orbit. This video contains rushes of Artemis as the lid is placed on its crate ready for shipping. The rushes were filmed in the cleanroom of ESA's space research and technology centre, ESTEC, in Noordwijk, the Netherlands on 24 February 2001.</plain>

**Keywords:** ARTEMIS

**Shotlist:** <plain></plain>

**Use:** broadcast,commercial

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**Pouction no.** 00101423

**Title:** STS-102 Launch

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>On the 8 March 2001 the Space Shuttle Discovery launched at the start of the STS-102 mission to take up the MPLM Leonardo to the International Space Station and to swap the Expedition One crew with the Expedition Two crew. The STS-102 crew comprises of: Paul Richards, Mission Specialist; Andy Thomas, Mission Specialist; Jim Kelly, Pilot; Jim Weatherbee, Commander. The Expedition Two crew comprises of Commander Yury Usachev, Susan Helms and Flight Engineer James Voss. This NASA TV downlink, taken on 08 March 2001 at 11:30 GMT, features live images of the launch of the space shuttle Discovery which took place at 11:42 GMT.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101424

**Title:** STS-98 Launch

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 36

**Comments:** <plain>On the 7 February 2001 the space shuttle Atlantis launched on mission STS-98 to take the new US laboratory Destiny to the International Space Station. This NASA TV downlink, taken on the 7 February, contains live images of the launch and replays of Destiny launch preparations.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101425

**Title:** Satellite Navigation VDO Rushes

**Type:** Rushes

**Category:** live-action recordings

**Language:** German

**Production Date:** 00/00/00

**Length:** 34

**Comments:** <plain>On site recordings at VDO in Germany, filmed on 23 January 2001 for a 4-part series of short videos on satellite navigation. The video includes German soundbites by Geat Viebner, VDO GF Marketing.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101426

**Title:** Umberto Guidoni Press Conference (English)

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>Prior to his launch on the STS-100 mission on 19 April 2001, Umberto Guidoni attended a Press Conference set up in Houston to answer questions from journalists in ESA Headquarters in Paris and at ESRIN in Italy. This tape is an edit of the English answers to the journalists question from Paris.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101426

**Title:** Umberto Guidoni Press Conference (English)

**Type:** Selected Rushes

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 17

**Comments:** <plain>Prior to his launch on the STS-100 mission on 19 April 2001, Umberto Guidoni attended a Press Conference set up in Houston to answer questions from journalists in ESA Headquarters in Paris and at ESRIN in Italy. This tape is an edit of the English answers to the journalists question from Paris.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** broadcast

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**Pouction no.** 00101432

**Title:** The Solar Cycle

**Type:** Miscellaneous

**Category:** Index, A- and B-roll

**Language:** English

**Production Date:** 00/00/00

**Length:** 12

**Comments:** <plain>The period of time when the sun's activity increases and decreases is referred to as the solar cycle. The solar cycle reaches its maximum about every 11 or so years. The lowest point of the solar cycle is called the solar minimum and the highest point, the solar maximum. As the solar cycle moves towards its maximum the number of sunspots increases. Sunspots are relatively cool areas that appear as dark blemishes on the face of the sun. They are formed when magnetic field lines just below the sun's surface are twisted and poke through the solar photosphere. The twisted magnetic field above sunspots are sites where solar flares are observed to occur. The earth is affected by both solar flares and sunspots. Solar flares emit high-speed particles which cause auroras, known in the northern hemisphere as Northern Lights. Particles from solar flares can also disrupt radio communication, and the radiation from the flares can give passengers in airplanes a dose of radiation equivalent to a medical X-ray. The European Space Agency has developed satellites such as SOHO, Ulysses and more recently Cluster in order to discover more about the sun and effects on the earth. This short A-roll gives a brief explanation of the solar cycle and is told using real images and graphic animations, it carries split audio with English commentary. The A-roll is complemented by a longer B-roll which includes 3-D animations, results from the solar observation satellite SOHO and the latest solar flare which took place on the 03 April 2001.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00101452

**Title:** EAC Footage

**Type:** Selected Rushes

**Category:** miscellaneous

**Language:** International Sound

**Production Date:** 00/00/00

**Length:** 28

**Comments:** <plain></plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use



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**Pouction no.** 00101453

**Title:** Inflight call from ISS Forum 2001

**Type:** Original Material

**Category:** live-action recordings

**Language:** English

**Production Date:** 00/00/00

**Length:** 13

**Comments:** <plain>Inflight call between the Expedition 2 crew, Yury Usachev, Jim Voss and Susan Helms on board the ISS with Presenter Klaus Krusken and astronauts Yuri Gidzenko, Sergei Krikalev and Thomas Reiter at the ISS Forum 2001 in Berlin. The call took place as part of the presentations of the International Space Station Forum which took place in the ESTREL Hotel in Berlin on 06 June 2001. This is a NASA TV downlink taken live during the event and carries mixed audio only.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use

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**Pouction no.** 00101454

**Title:** EbS - Inflight call by President R. Prodi and Dr A. Rodota

**Type:** Original Material

**Category:** live-action recordings

**Language:** Various

**Production Date:** 00/00/00

**Length:** 8

**Comments:** <plain>Umberto Guidoni made history by becoming the first European on board the ISS in April 2001 on board the STS-100 Shuttle mission which delivered the MPLM Raffaello and the new Canadian robotic arm. During that mission an inflight call was organised between the Umberto Guidoni on board the International Space Station and European Commission President R. Prodi and ESA Director General Dr A Rodota in Brussels. This event was then transmitted on the European Commission Europe by Satellite (EbS), and this is the downlinked programme from the Hotbird satellite that was transmitted on the 25 April 2001.</plain>

**Keywords**

**Shotlist:** <plain></plain>

**Use:** no use