



UNITED STATES HUMAN SPACE FLIGHT ACTIVITIES FOR 2001

Mission: STS-98/ISS-5A

Crew:

Commander: Ken Cockrell

Pilot: Mark Polansky

Mission Specialist: Robert Curbeam

Mission Specialist: Thomas Jones

Mission Specialist: Marsha Ivins

Launched: 7 February 2001

Landed: 20 February 2001

Primary Mission Objective:

Space Shuttle Atlantis spent almost 13 days in orbit, with seven of those days docked to the International Space Station.

While at the orbital outpost, the STS-98 crew delivered and activated the U.S. Laboratory named Destiny and completed three space walks.



Mission: STS-102/ISS-5A.1

Shuttle Crew:

Commander: James Wetherbee

Pilot: James Kelly

Mission Specialist: Andy Thomas

Mission Specialist: Paul Richards

Expedition 2 Crew (Up):

Yury Usachev

James Voss

Susan Helms

Expedition 1 Crew (Down):

William Shepherd

Yuri Gidzenko

Sergei Krikalev



Launched: 8 March 2001

Landed: 21 March 2001

Primary Mission Objectives:

Space Shuttle Discovery spent almost 13 days in orbit, with nearly nine of those days docked to the International Space Station. While at the orbital outpost, the STS-102 crew attached the Leonardo Multi-Purpose Logistics Module, transferred supplies and equipment to the station, and completed two space walks.

Mission: STS-100/ISS-6A

Crew:

Commander: Kent Rominger

Pilot: Jeff Ashby

Mission Specialist: Chris Hadfield, CSA

Mission Specialist: John Phillips

Mission Specialist: Scott Parazynski

Mission Specialist: Umberto Guidoni, ESA

Mission Specialist: Yuri Lonchakov, Rosaviakosmos

Launched: 19 April 2001

Landed: 1 May 2001



Primary Mission Objectives:

Endeavour and its crew spent almost 12 days on orbit, eight of which were spent in joint operations with the International Space Station crew. Endeavour's crew delivered and installed a new robotic arm and helped to transfer equipment and supplies between vehicles.

Mission: STS-104/ISS-7A

Crew:

Commander: Steve Lindsey

Pilot: Charles Hobaugh

Mission Specialist: Michael Gernhardt

Mission Specialist: Janet Kavandi

Mission Specialist: James Reilly

Launched: 12 July 2001

Landed: 24 July 2001



Primary Mission Objectives:

Space Shuttle Atlantis spent 13 days in orbit, eight of those days docked with the International Space Station. While at the orbital outpost, the STS-104 crew delivered the Quest Airlock and installed it on the station's Unity Node.

Mission: STS-105/ISS-7A.1

Shuttle Crew:

Commander: Scott Horowitz

Pilot: Rick Sturckow

Mission Specialist: Daniel Barry

Mission Specialist: Patrick Forrester

Expedition 3 Crew (Up):

Frank Culbertson

Vladimir Dezhurov

Mikhail Tyurin

Expedition 2 Crew (Down):

Yury Usachev

James Voss

Susan Helms



Launch: 10 August 2001

Landed: 22 August 2001

Primary Mission Objectives:

Space Shuttle Discovery spent 12 days in orbit, with eight of those days docked to the International Space Station. While at the orbital outpost, the STS-105 crew attached the Leonardo Multi-Purpose Logistics Module, transferred supplies and equipment to the station, completed two space walks and deployed a small spacecraft called Simplesat.

Discovery delivered the Expedition Three crew -- Commander Frank Culbertson, Pilot Vladimir Dezhurov and Flight Engineer Mikhail Tyurin -- for its extended stay aboard the space station. It returned to Earth with Expedition Two crewmembers Commander Yury Usachev and Flight Engineers Jim Voss and Susan Helms who had spent about five months living on the station.

Mission: STS-108/ISS-UF1

Shuttle Crew:

Commander: Dominic Gorie

Pilot: Mark Kelly

Mission Specialist: Linda Godwin

Mission Specialist: Daniel Tani

Expedition 4 Crew (Up):

Yury Onufrienko

Carl Walz

Daniel Bursch

Expedition 3 Crew (Down):

Frank Culbertson

Mikhail Tyurin

Vladimir Dezhurov



Launched: 5 December 2001

Landed: 17 December 2001

Primary Mission Objectives:

STS-108 was the 12th shuttle flight to visit the International Space Station and the first since the installation of the Russian airlock called Pirs on the station. Endeavour delivered the Expedition Four crew -- Commander Yury Onufrienko and Flight Engineers Carl Walz and Dan Bursch -- to the orbital outpost. The Expedition Three crew -- Commander Frank Culbertson, Pilot Vladimir Dezhurov and Flight Engineer Mikhail Tyurin -- returned to Earth on Endeavour.

INTERNATIONAL SPACE STATION EXPEDITIONS for 2001

Expedition 1:

The crew was launched to the International Space Station by Russia on International Space Station Flight 2R.

Crew:

Commander: Bill Shepherd
Soyuz Commander: Yuri Gidzenko.
Flight Engineer: Sergei Krikalev

Launched: 31 October 2000

Docked: 2 November 2000

Mission End: 18 March 2001



Expedition 2:

The crew was launched to the International Space Station by the United States on STS-102/ISS 5A.1.

Crew:

Commander: Yury Usachev
Flight Engineer: James Voss
Flight Engineer: Susan Helms

Launched: 8 March 2001

Docked: 9 March 2001

Mission End: 15 December 2001



Expedition 3

The crew was launched to the International Space Station by the United States on STS-105/ISS 7A.1.

Crew:

ISS Commander: Frank Culbertson

Soyuz Commander: Vladimir Dezhurov

Flight Engineer : Mikhail Tyurin

Launched: 10 August 2001

Docked: 12 August 2001

Mission End: 15 December 2001



Expedition 4

The crew was launched to the International Space Station by the United States on STS-108/ISS UF1.

Crew:

ISS Commander: Yury Onufrienko

Flight Engineer: Dan Bursch

Flight Engineer: Carl Walz

Launched: 5 December 2001

Docked: 7 December 2001

Mission End: To be determined.



UNITED STATES SPACE FLIGHT ACTIVITIES FOR 2002

Mission: STS-109

Crew:

Commander: Scott Altman

Pilot: Duane Carey

Mission Specialist: John Grunsfeld

Mission Specialist: Nancy Currie

Mission Specialist: Richard Linnehan

Launched: 1 March 2002

Landed: 12 March 2002



Primary Mission Objectives:

The STS-109 crew - Altman, Carey and Mission Specialists Nancy Currie, John Grunsfeld, Rick Linnehan, Mike Massimino and Jim Newman -- successfully completed the mission's objectives of servicing the Hubble Space Telescope. The upgrades and servicing by the crew leaves Hubble with a new power unit, a new camera and new solar arrays. This was the fourth shuttle mission dedicated to servicing Hubble. The next is scheduled for 2004.

The STS-109 astronauts performed a total of five space walks in five consecutive days to service and upgrade the Hubble Space Telescope. STS-109 Mission Specialists John Grunsfeld and Richard Linnehan conducted the mission's first, third and fifth extravehicular activities, or EVAs. Mission Specialists James Newman and Michael Massimino performed the second and fourth space walks.

Mission: STS-110/ISS-8A

Crew:

Commander: Michael Bloomfield

Pilot: Stephen Frick

Mission Specialist: Rex Walheim

Mission Specialist: Ellen Ochoa

Mission Specialist: Lee Morin

Mission Specialist: Jerry Ross

Mission Specialist: Steven Smith

Launched: 8 April 2002

Landed: To be determined.



Primary Mission Objectives:

STS-110 is the 13th shuttle flight to the International Space Station. During this mission, Space Shuttle Atlantis will be delivering the S0 Truss, and the STS-110 crew will conduct four spacewalks to install the new component. The S0 will be the centerpiece of the station's exterior framework and sets the stage for future expansion and research.

Also, STS-110 spacewalkers will install the Mobile Transporter, which will later be attached to a base system that will allow the station's robotic arm to ride along the truss to perform assembly and maintenance work.

REMAINING SPACE SHUTTLE / INTERNATIONAL SPACE STATION MANIFEST FOR 2002

Date	Flight	Vehicle	Element(s)
May 31, 2002	STS111 ISSUF-1	U.S. Orbiter	Leonardo Multi-Purpose Logistics Module (MPLM) ; Mobile Base System (MBS); Crew Rotation
July 11, 2002	STS107	U.S. Orbiter	Research Mission
Aug. 15, 2002	STS112 ISS9A	U.S. Orbiter	First starboard truss segment (ITS S1); Radiators; Crew & Equipment Translation Aid (CETA) Cart A
Sept. 19, 2002	STS113 ISS11A	U.S. Orbiter	First port truss segment (ITS P1); CETA Cart B; Crew Rotation

Note: Russian Progress and Soyuz flights to the International Space Station are not listed.

Interesting web sites:

<http://spaceflight.nasa.gov>

<http://spaceflight.nasa.gov/realdata/sightings/index.html>