

# Flights of Endeavour (OV-105)

Times Flown	Mission Name	Crew	Launch Pad	Launch Date	Landing Date & Site	Primary Payload
1	STS-49	Brandenstein, Chilton, Melnick, Akers, Hieb, Thuot, Thornton	39B	05/07/92	05/16/92 at EAFB	Rescue, repair, redeploy INTELSAT VI (F-3)
2	STS-47	Gibson, Brown, Lee, Davis, Apt, Jemison, Mohri	39B	09/12/92	09/20/92 at KSC	Spacelab-J
3	STS-54	Casper, McMonagle, Harbaugh, Runco, Helms	39B	01/13/93	01/19/93 at KSC	TDRS-F; DXS
4	STS-57	Grabe, Duffy, Low, Sherlock, Voss, Wisoff	39B	06/21/93	07/01/93 at KSC	SPACEHAB; EURECA Retrieval
5	STS-61	Covey, Bowersox, Musgrave, Hoffman, Thornton, Akers, Nicollier	39B	12/02/93	12/13/93 at KSC	1st Hubble Space Telescope Servicing Mission
6	STS-59	Gutierrez, Chilton, Godwin, Apt, Clifford, Jones	39A	04/09/94	04/20/94 at EAFB	Space Radar Laboratory-1 (SRL-1)
7	STS-68	Baker, Wilcutt, Jones, Bursch, Wisoff, Smith	39A	09/30/94	10/11/94 at EAFB	Space Radar Laboratory-2 (SRL-2)
8	STS-67	Oswald, Gregory, Jernigan, Lawrence, Grunsfeld, Durrance, Parise	39A	03/02/95	03/18/95 at EAFB	Astro-2
9	STS-69	Walker, Cockrell, Voss, Newman, Gernhardt	39A	09/07/95	09/18/95 at KSC	Wake Shield Facility-2; Spartan-201-3
10	STS-72	Duffy, Jett, Barry, Chiao, Scott, Wakata	39B	01/11/96	01/20/96 at KSC	Japanese Space Flyer Unit (SFU); Office of Aeronautics and Space Technology (OAST) Flyer
11	STS-77	Casper, Brown, Thomas, Bursch, Runco, Garneau	39B	05/19/96	05/29/96 at KSC	SPACEHAB-4; SPARTAN Inflatable Antenna Experiment (IAE)
12	STS-89	Wilcutt, Edwards, Anderson, Dunbar, Reilly, Sharipov; Thomas (up to Mir); Wolf (down from Mir)	39A	01/22/98	01/31/98 at KSC	10th Shuttle-Mir Mission - 8th docking ; SPACEHAB-DM
13	STS-88	Cabana, Sturckow, Currie, Ross, Newman, Krikalev	39A	12/04/98	12/15/98 at KSC	1st ISS Mission - Unity node
14	STS-99	Kregel, Gorie, Kavandi, Voss, Mohri, Thiele	39A	02/11/00	02/22/00 at KSC	Shuttle Radar Topography Mission
15	STS-97	Jett, Bloomfield, Tanner, Noriega, Garneau	39B	11/30/00	12/11/00 at KSC	6th ISS Mission - U.S. Solar Arrays
16	STS-100	Rominger, Ashby, Hadfield, Parazynski, Phillips, Lonchakov, Guidoni	39A	04/19/01	05/01/01 at EAFB	9th ISS Mission - SSRMS; MPLM Raffaello; UHF Antenna
17	STS-108	Gorie, Kelly, Godwin, Tani; Onufriyenko, Walz, Bursch (up to ISS); Culbertson, Tyurin, Dezhurov (down from ISS)	39B	12/05/01	12/17/01 at KSC	12th ISS Mission - Utilization Flight-1; MPLM Raffaello
18	STS-111	Cockrell, Lockhart, Chang-Diaz, Perrin; Korzun, Whitson; Treschev (up to ISS); Onufriyenko, Bursch, Walz (down from ISS)	39A	06/05/02	06/19/02 at EAFB	14th ISS Mission - Utilization Flight-2; Mobile Remote Service Base System; Orbital Replacement Unit; MPLM Leonardo
19	STS-113	Wetherbee, Lockhart, Lopez-Alegria, Herrington; Bowersox, Pettit Budarin, (up to ISS); Korzun, Whitson, Treschev (down from ISS)	39A	11/23/02	12/07/02 at KSC	16th ISS Mission - P1 Integrated Truss Segment
20	STS-118	Kelly, Hobaugh, Williams, Morgan, Mastracchio, Caldwell, Drew	39A	08/08/07	08/21/07 at KSC	22nd ISS Mission - S5 truss; gyroscope; ESP3
21	STS-123	Gorie, Johnson, Linnehan, Behnken, Foreman, Doi; Reisman (up to ISS); Eyharts (down from ISS)	39A	03/11/08	03/26/08 at KSC	25th ISS Mission - Japanese ELM-PS; Dextre Robotics System
22	STS-126	Ferguson, Boe, Bowen, Kimbrough, Stefanyszyn-Piper, Pettit; Magnus (up to ISS); Chamitoff (down from ISS)	39A	11/14/08	11/30/08 at EAFB	27th ISS Mission - MPLM Leonardo
23	STS-127	Polansky, Hurley, Cassidy, Marshburn, Wolf, Payette; Kopra (up to ISS); Wakata (down from ISS)	39A	07/15/09	07/31/09 at KSC	29th ISS Mission - JEM EF; ELM-ES; ICC-VLD
24	STS-130	Zamka, Virts, Behnken, Hire, Patrick, Robinson	39A	02/08/10	02/21/10 at KSC	32nd ISS Mission - Tranquility module; Cupola
25	STS-134	Kelly, Johnson, Chamitoff, Feustel, Fincke, Vittori	39A	Targeted for 04/29/11		36th ISS Mission (final planned mission for Endeavour) - ELC-3; Alpha Magnetic Spectrometer-2 (AMS)



# ENDEAVOUR (OV-105)

**E**ndeavour was NASA's fifth and final space shuttle orbiter to join the fleet at Kennedy Space Center in Florida. Endeavour also is known inside the space agency by its designation Orbiter Vehicle-105, or OV-105.

Construction of Endeavour began on Sept. 28, 1987, and it rolled out of the assembly plant in Palmdale, Calif., on April 1991.

For the first time, a national competition involving students in elementary and secondary schools produced the name of the new orbiter.

After receiving 6,154 entries, representing more than 70,000 students, NASA chose Endeavour and it was announced by President George Bush in 1989. The name comes from a ship chartered to traverse the South Pacific in 1768 and captained by 18th century British explorer James Cook, an experienced seaman, navigator and amateur astronomer.

Endeavour first launched May 7, 1992, on the STS-49 mission to capture the INTELSAT VI communications satellite and re-release it into a geosynchronous orbit.

In 1993, Endeavour embarked on STS-61, the first servicing mission to NASA's Hubble Space Telescope.

Endeavour is targeted to liftoff on its final mission, STS-134, on April 19, 2011. It will be the second space shuttle retired from NASA's fleet.

## KEY ENDEAVOUR MISSIONS

STS-49 – Maiden Flight; Capture and redeploy Intelsat VI

STS-47 – Spacelab mission J

STS-54 – Deploy TDRS-F

STS-57 – Retrieve European Retrievable Carrier

STS-61 – First Hubble Space Telescope servicing mission

STS-72 – Retrieve Japanese Space Flyer Unit

STS-89 – Rendezvous with Mir space station

STS-88 – International Space Station

assembly mission, which assembled the Unity module, the first U.S. component of the station

STS-100 – International Space Station assembly mission, which delivered the Canadarm2 robotic arm and hand

STS-123 – International Space

Station assembly mission, which delivered the first element of

Japan's Kibo module along with the Canadian Special Purpose Dexterous Manipulator robotic arm (Dextre)

## THE NUMBERS

**(Prior to STS-134)**

Total miles traveled:

103,149,636

Total time in space: 280 days, 9

hours, 39 minutes, 44 seconds

Total orbits: 4,429

Total flights: 24

Total crew members: 148

Mir dockings: 1

International Space Station dockings: 10

# NASAfacts

