National Aeronautics and Space Administration

Space Shuttle Launches

KSC Historical Report No. 1B (KHR-1B)

Kennedy Space Center
1981 - 2009
Total Space Shuttle Program Launches - 128

Space shuttles are launched from NASA facilities at the Kennedy Space Center (KSC) in Florida. Landings have occurred at KSC and Edwards Air Force Base (EAFB) in California, the two prime end-of-mission landing sites; and one at Space Harbor (SH), formerly known as Northrup Strip, White Sands, N.Mex. All liftoff and landing dates are determined using Eastern Standard and Eastern Daylight Times. For more detailed information on space shuttle missions and payloads, refer to Space Shuttle Mission Chronology 1981-1998, KSC Release No. 12-92, Revised February 1999, or Space Shuttle Mission Chronology 2000-2003, Vol. 2. See PMS-031, Major NASA Launches, for information on missions and payloads using other launch vehicles. Challenger was destroyed Jan. 28, 1986, during launch. Columbia was destroyed Feb 1, 2003, while returning to KSC from research mission STS-107.

Columbia — OV-102 **Discovery — OV-103** **Atlantis — OV-104**
Endeavour — OV-105 **Challenger — OV-099**

Note: The numbers next to the orbiter names and crew names below indicate how many shuttle launches each has flown, including that flight. No number indicates first shuttle mission for that crew member.

Space Shuttle Missions

Mission Name	Crew	Launch Date/ Landing Date	Orbiter	Primary Payload	Launch Pad/ Runway Landing
Operational Test Flights					
STS-1	Young, Crippen	04/12/81 04/14/81	Columbia[1]	—	39A 23 EAFB
STS-2	Engle, Truly	11/12/81 11/14/81	Columbia[2]	OSTA-1	39A 23 EAFB
STS-3	Lousma, Fullerton	03/22/82 03/30/82	Columbia[3]	OSS-1	39A 17 S, Whitesands, NM
STS-4	Mattingly, Hartsfield	06/27/82 07/04/82	Columbia[4]	DOD	39A 22 EAFB
Operational Flights					
STS-5	Brand, Overmyer, Lenoir, J. Allen	11/11/82 11/16/82	Columbia[5]	SBS-3/Anik C-3	39A 22 EAFB
STS-6	Weitz, Bobko, Musgrave, Peterson	04/04/83 04/09/83	Challenger[1]	TDRS-1	39A 22 EAFB
STS-7	Crippen[2], Hauck,Ride, Fabian, Thagard	06/18/83 06/24/83	Challenger[2]	Anik C-2/ Palapa B-1	39A 15 EAFB
STS-8	Truly[2], Brandenstein, Bluford, Gardner, Thornton	08/30/83 09/05/83	Challenger[3]	INSAT 1B	39A 22 EAFB
STS—9	Young[2], Shaw, Parker, Garriott, Merbold, Lichtenberg	11/28/83 12/08/83	Columbia[6]	Spacelab 1	39A 17 EAFB
STS-41-B	Brand[2], Gibson, Stewart, McNair, McCandless	02/03/84 02/11/84	Challenger[4]	[a]Westar VI/ [a]Palapa B-2	39A 15 KSC
STS-41-C	Crippen[3], Scobee, van Hoften, Nelson, Hart	04/06/84 04/13/84	Challenger[5]	[c]Long Duration Exposure Facility	39A 17 EAFB
STS 41-D	Hartsfield[2], Coats, Hawley, Resnik, Mullane, Walker	08/30/84 09/05/84	Discovery[1]	SBS-4/ Telstar 3-C/	39A 17 EAFB
STS-41-G	Crippen[4], McBride, Sullivan, Ride[2], Leestma, Garneau, Scully-Power	10/05/84 10/13/84	Challenger[6]	ERBS/OSTA-3	39A 33 KSC
STS 51-A	Hauck[2], Walker, J. Allen[2], Fisher, Gardner[2]	11/08/84 11/16/84	Discovery[2]	Anik D-2/ SYNCOM IV-1	39A 15 KSC
STS 51-C	Mattingly[2], Shriver, Buchli, Onizuka, Payton	01/24/85 01/27/85	Discovery[3]	DOD	39A 15 KSC
STS 51-D	Bobko[2], Williams, Seddon, Griggs, Hoffman, Garn, Walker	04/12/85 04/19/85	Discovery[4]	Anik C-1/ [b]SYNCOM IV-3	39A 33 KSC
STS 51-B	Overmyer[2], Gregory, Lind, Thagard[2], Thornton, van den Berg, Wang	04/29/85 05/06/85	Challenger[7]	Spacelab 3	39A 17 EAFB
STS 51-G	Brandenstein[2], Creighton, Lucid, Nagel, Fabian[2], Baudry, Sultan Al-Saud	06/17/85 06/24/85	Discovery[5]	Arabsat 1-B/Telstar 3-D/ Morelos-A	39A 23 EAFB
STS 51-F	Fullerton[2], Bridges, Musgrave[2], England, Henize, Acton, Bartoe	07/29/85 08/06/85	Challenger[8]	Spacelab 2	39A 23 EAFB
STS 51-I	Engle[2], Covey, van Hoften[2], Lounge, Fisher	08/27/85 09/03/85	Discovery[6]	AUSSAT 1/ASC 1/ SYNCOM IV-4	39A 23 EAFB
STS 51-J	Bobko[3], Grabe, Stewart[2], Hilmers, Pailes	10/03/85 10/07/85	Atlantis[1]	DOD	39A 23 EAFB
STS-61-A	Hartsfield[3], Nagel[2], Buchli[2], Bluford[2], Dunbar, Furrer, Ockels, Messerschmid	10/30/85 11/06/85	Challenger[9]	Spacelab D-1	39A 17 EAFB
STS 61-B	Shaw[2], O'Connor, Cleave, Spring, Ross, Vela, Walker	11/26/85 12/03/85	Atlantis[2]	Morelos-B/AUSSAT-2/ RCA SATCOM Ku-2	39A 22 EAFB
STS 61-C	Gibson[2], Bolden, Chang-Diaz, Hawley[2], Nelson[2], Cenker, Nelson	01/12/86 01/18/86	Columbia[7]	RCA SATCOM Ku-1	39A 22 EAFB
STS 51-L	Scobee[2], Smith, McNair, Resnik, Onizuka[2], Jarvis, McAuliffe	01/28/86	Challenger[10]	TDRS-B vehicle lost 73seconds after liftoff	39B
STS-26	Hauck[3], Covey[2], Lounge[2], Hilmers[2], Nelson[3]	09/29/88 10/03/88	Discovery[7]	TDRS-3	39B 17 EAFB
STS-27	Gibson[3], Gardner[1], Shepherd, Mullane[2], Ross[2]	12/02/88 12/06/88	Atlantis[3]	DoD	39B 17 EAFB
STS-29	Coats[2], Blaha, Buchli[3], Springer, Bagian	03/13/89 03/18/89	Discovery[8]	TDRS-4	39B 22 EAFB
STS-30	Walker,[2] Grabe[2], Thagard[3], Cleave[2], Lee	05/04/89 05/08/89	Atlantis[4]	Magellan	39B 22 EAFB
STS-28	Shaw[3], Richards, Leestma[2], Adamson, Brown	08/08/89 08/13/89	Columbia[8]	DoD	39B 17 EAFB
STS-34	Williams[2], McCulley, E. Baker, Chang-Diaz[2], Lucid [2]	10/18/89 10/23/89	Atlantis[5]	Galileo	39B 23 EAFB
STS-33	Gregory[2], Blaha[2], Musgrave[3], Thornton[3], Carter	11/22/89 11/27/89	Discovery[9]	DoD	39B 4 EAFB
STS-32	Brandenstein[3], Wetherbee, Dunbar[2], Ivins, Low	01/09/90 01/20/90	Columbia[9]	SYNCOM IV-5/ [c]LDEF	39A 22 EAFB
STS-36	Creighton[2], Casper, Hilmers[3], Mullane[3], Thuot	02/28/90 03/04/90	Atlantis[6]	DoD	39A 23 EAFB
STS-31	Shriver[2], Bolden[2], Hawley[3], McCandless[2], Sullivan[2]	04/24/90 04/29/90	Discovery[10]	Hubble Space Telescope	39B 22 EAFB
STS-41	Richards[2], Cabana, Shepherd[2], Melnick, Akers	10/06/90 10/10/90	Discovery[11]	Ulysses	39B 22 EAFB
STS-38	Covey[3], Culbertson, Meade, Springer[2], Gemar	11/15/90 11/20/90	Atlantis[7]	DoD	39A 33 KSC
STS-35	Brand[3], Gardner[2], Lounge[3], Hoffman[2], Parker[2], Parise, Durrance	12/02/90 12/11/90	Columbia[10]	Astro-1	39B 22 EAFB
STS-37	Nagel[3], Cameron, Apt, Godwin, Ross[3]	04/05/91 04/11/91	Atlantis[8]	[f]Gamma Ray Observatory	39B 33 EAFB
STS-39	Coats[3], Hammond, Harbaugh, McMonagle, Bluford[3], Hieb, Veach	04/28/91 05/06/91	Discovery[12]	DoD	39A 15 KSC
STS-40	O'Connor[2], Gutierrez, Jernigan, Seddon[2], Bagian[2], Gaffney, Hughes-Fulford	06/05/91 06/14/91	Columbia[11]	Spacelab Life Sciences-1	39B 22 EAFB
STS-43	Blaha[3], M. Baker, Adamson[2], Low[2], Lucid[3]	08/02/91 08/11/91	Atlantis[9]	TDRS-5	39A 15 KSC
STS-48	Creighton[3], Reightler, Buchli, Brown, Gemar[2]	09/12/91 09/18/91	Discovery[13]	Upper Atmosphere Research Satellite	39A 22 EAFB
STS-44	Gregory[3], Henricks, Musgrave[4], Runco, J. S. Voss, Hennen	11/24/91 12/01/91	Atlantis[10]	Defense Support Program Satellite	39A 5 EAFB
STS-42	Grabe[3], Oswald, Readdy, Thagard[4], Hilmers[4], Bondar, Merbold	01/22/92 01/30/92	Discovery[14]	IML-1	39A 22 EAFB
STS-45	Bolden[3], Duffy, Sullivan[3], Leestma[3], Foale, Frimout, Lichtenberg[2]	03/24/92 04/02/92	Atlantis[11]	ATLAS-1	39A 33 KSC
STS-49	Brandenstein[4], Chilton, Melnick[2], Akers[2], Thornton[2], Hieb[2], Thuot[2]	05/07/92 05/16/92	Endeavour[1]	[g]INTELSAT rescue and deployment	39B 22 EAFB
STS-50	Richards[3], Bowersox, Dunbar[3], Meade[2], Baker[2], Trinh, DeLucas	06/25/92 07/09/92	Columbia[12]	USML-1	39A 33 KSC
STS-46	Shriver[3], A. Allen, Hoffman[3], Ivins[2], Chang-Diaz[3], Nicollier, Malerba	07/31/92 08/08/92	Atlantis[12]	TSS-1/ [i]EURECA	39B 33 KSC
STS-47	Gibson[4], Brown, Lee[2], Davis, Apt[2], Jemison, Mohri	09/12/92 09/20/92	Endeavour[2]	Spacelab-J	39B 33 KSC
STS-52	Wetherbee[2], M. Baker[2], Shepherd[3], Jernigan[2], Veach[2], MacLean	10/22/92 11/01/92	Columbia[13]	[h]Lageos II/ USMP-1	39B 33 KSC
STS-53	Walker[3], Cabana[2], Bluford[4], J. S.Voss[2], Clifford	12/02/92 12/09/92	Discovery[15]	DOD	39A 22 EAFB
STS-54	Casper[2], McMonagle[2], Runco Jr.[2], Harbaugh[2], Helms	01/13/93 01/19/93	Endeavour[3]	TDRS-6	39B 33 KSC
STS-56	Cameron[2], Oswald[2], Cockrell, Foale[2], Ochoa	04/08/93 04/17/93	Discovery[16]	ATLAS-2	39B 33 KSC
STS-55	Nagel[4], Henricks[2], Ross[4], Precourt, Harris Jr., Walter, Schlegel	04/26/93 05/06/93	Columbia[14]	Spacelab D-2	39A 22 EAFB
STS-57	Grabe[4], Duffy[2] Low[3], Sherlock, J. E. Voss, Wisoff	06/21/93 07/01/93	Endeavour[4]	SPACEHAB-1/ [i]EURECA retrieval	39B 33 KSC
STS-51	Culbertson Jr.[2], Readdy[2], Newman, Bursch, Walz	09/12/93 09/22/93	Discovery[17]	ACTS-TOS ORFEUS-SPAS	39B 15 KSC
STS-58	Blaha[4], Searfoss, Seddon[3], McArthur Jr., Wolf, Lucid[4], Fettman	10/18/93 11/01/93	Columbia[15]	Spacelab Life Sciences-2	39B 22 EAFB
STS-61	Covey[4], Bowersox[2], Musgrave[5], Hoffman[4], Thornton[3], Akers[3], Nicollier[2]	12/02/93 12/13/93	Endeavour[5]	Hubble Space Telescope (HST) Servicing	39B 33 KSC
STS-60	Bolden[4], Reightler[2], Chang-Diaz[4], Davis[2], Sega, Krikalev (Russian cosmonaut)	02/03/94 02/11/94	Discovery[18]	SPACEHAB-2 Wake Shield Facility-1	39A 15 KSC
STS-62	Casper[3], A. Allen[2], Gemar[3], Ivins[3], Thuot[3]	03/04/94 03/18/94	Columbia[16]	USMP-2/ OAST-2	39B 33 KSC
STS-59	Gutierrez[2], Chilton[2], Godwin[2], Apt[3], Clifford[2], Jones	04/09/94 04/20/94	Endeavour[6]	Space Radar Laboratory-1(SRL-1)	39A 22 EAFB
STS-65	Cabana[3], Halsell, Hieb[3], Thomas, Walz[2], Chiao, Naito-Muka	07/08/94 07/23/94	Columbia[17]	IML-2	39A 33 KSC

LEGEND:

a - Entered unplanned orbit; recovered on STS 51-A and returned to Earth on November 16, 1984.

b - Failed to activate after deployment; was successfully repaired during STS 51-I and later entered normal service.

c - The Long Duration Exposure Facility (LDEF) was deployed on STS 41-C on April 7, 1984, and retrieved from space during STS-32 on January 12, 1990. It was returned to KSC on January 26, 1990, where the experiment trays were removed.

d - NASA's Space Shuttle liftoff, routine space operations and orbiter landing were successful. The Department of Defense (DoD) does not discuss the success of its payloads or experiments on classified missions.

e - Most or all payloads on these DoD missions are unclassified.

f - When deployed on April 7, 1991, the 35,000-pound spacecraft was called the Gamma Ray Observatory (GRO). NASA announced on September 23, 1991, that it was renaming the satellite the Arthur Holly Compton Gamma Ray Observatory or Compton Observatory in honor of the late Nobel Prize-winning physicist.

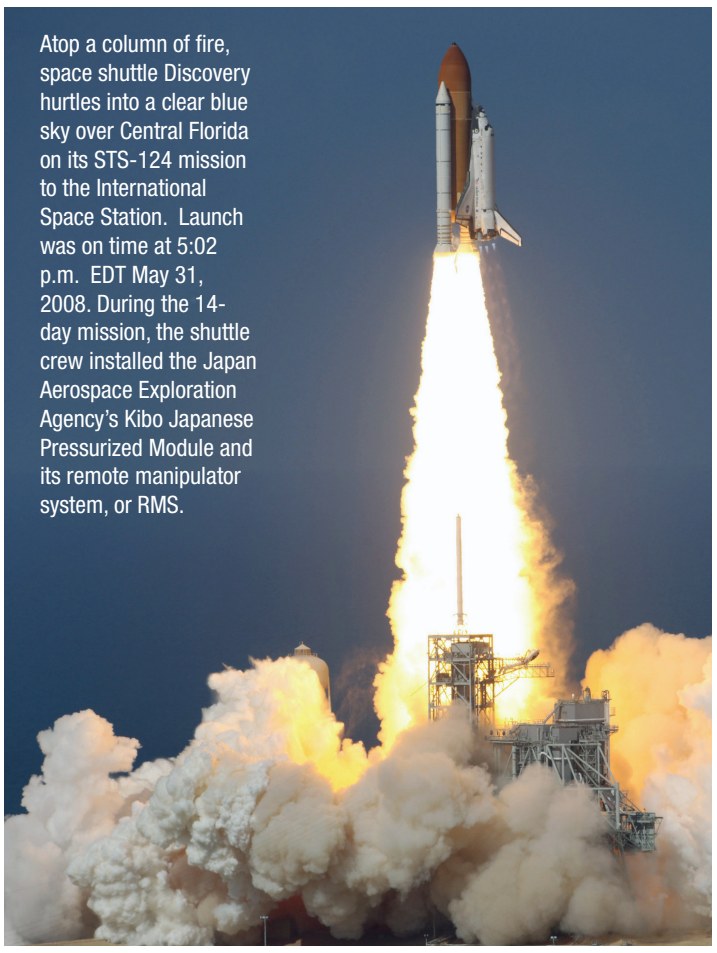
g - INTELSAT VI (F3) was launched into space aboard a Titan launch vehicle in March 1990. The Titan's second stage failed to separate from the satellite's perigee kick motor; without the extra boost from the kick motor, the INTELSAT satellite remained in an unusable low orbit. The STS-49 crew retrieved the satellite in the final of three space walks, and redeployed it with a new kick motor.

h - LAGEOS 1 was launched in 1976 on a Delta expendable vehicle.

i - The European Retrievable Carrier, or EURECA, was deployed on August 2, 1992, during STS-46. The free-flying platform with 15 scientific instruments was retrieved during Mission STS-57, on June 24, 1993.

Operational Flights (continued)

STS-64	Richards[4], Hammond[2], Helms[2], Meade[3], Lee[3], Linenger	09/09/94 09/20/94	Discovery[19]	Lidar In-Space Technology Experiment (LITE)	39B 04 EAFB
STS-68	M. Baker[3], Wilcutt, Jones[2], Bursch[2], Wisoff[2], Smith	09/30/94 10/11/94	Endeavour[7]	SRL-2	39A 22 EAFB
STS-66	McMonagle[3], Brown[2], Ochoa[2], Tanner, Parazynski, Clervoy	11/03/94 11/14/94	Atlantis[13]	ATLAS-3/ CRISTA-SPAS	39B 22 EAFB
STS-63	Wetherbee[3], Collins, Foale[3], J.E. Voss[2], Harris Jr.[2], Titov[4]	02/03/95 02/11/95	Discovery[20]	SPACEHAB-3/ MIR. Spartan-204	39B 15 KSC
STS-67	Oswald[3], Gregory, Jernigan[3], Grunsfeld, Lawrence, Parise[2], Durrance[2]	03/02/95 03/18/95	Endeavour[8]	Astro-2	32A 22 EAFB
STS-71	Gibson[5], Precourt[2], E. Baker[3], Dunbar[4], Harbaugh[3], Solovyev[4], Budarin, Return from MIR: Dezhurov, Strekalov[6], Thagard; Solovyev[4], Budarin stay on MIR	06/27/95 07/07/95	Atlantis[14]	1st MIR docking/ crew transfer	39A 15 KSC
STS-70	Henricks[3], Kregel, Currie[2], Thomas[2], Weber	07/13/95 07/22/95	Discovery[21]	TDRS-7	39B 33 KSC
STS-69	Walker[4], Cockrell[2], J.S. Voss[3], Newman[2], Gernhardt	09/07/95 09/18/95	Endeavour[9]	Spartan 201-03/ Wake ShieldFacility-2	39A 33 KSC
STS-73	Bowersox[3], Rominger, Thornton[4], Coleman, Lopez-Alegria, Leslie, Sacco Jr.	10/20/95 11/05/95	Columbia[18]	USML-2	39B 33 KSC
STS-74	Cameron[3], Halsell Jr.[2], Ross[5], McArthur Jr.[2], Hadfield	11/12/95 11/20/95	Atlantis[15]	MIR docking-2	39A 33 KSC
STS-72	Duffy[3], Jett, Chiao[2], Barry, Scott, Wakata	01/11/96 01/20/96	Endeavour[10]	SFU retrieval/ OAST Flyer	39B 15 KSC
STS-75	A. Allen[3], Horowitz, Chang-Diaz[5], Cheli, Hoffman[5], Nicollier[3], Guidoni	02/22/96 03/09/96	Columbia[19]	TSS-1R/ USMP-03	39B 33 KSC
STS-76	Chilton[3], Searfoss[2], Lucid[5], Godwin[3], Clifford[3], Sega[2] Lucid stays on Mir	03/22/96 03/31/96	Atlantis[16]	SPACEHAB-SM MIR docking-3/ crew transfer	39B 22 EAFB
STS-77	Casper[4], Brown Jr.[3], Bursch[3], Runco Jr.[3], Garneau[2], Thomas	05/19/96 05/29/96	Endeavour[11]	SPACEHAB-4/ Spartan-207/IAE	39B 33 KSC
STS-78	Henricks[4], Kregel[2], Helms[3], Linnehan, Brady Jr., Favier, Thirsk	06/20/96 07/07/96	Columbia[20]	SPACELAB-LMS	39B 33 KSC
STS-79	Readdy[3], Wilcutt[2], Akers[4], Blaha[5], Apt[4], Walz[3] Return from MIR: Lucid; Blaha replaces her	09/16/96 09/26/96	Atlantis[17]	SPACEHAB/ MIR docking-4/15 KSC crew transfer	39A
STS-80	Cockrell[3], Rominger[2], Jernigan[4], Jones[3], Musgrave[6]	11/19/96 12/07/96	Columbia[21]	ORFEUS-SPAS II	39B 33 KSC
STS-81	M. Baker[4], Jett[2], Grunsfeld[2], Ivins[4], Wisoff[3], Linenger[2] Return from MIR: Blaha; Linenger replaces him	01/12/97 01/22/97	Atlantis[18]	SPACEHAB-DM MIR docking-5/ crew transfer	39B 33 KSC
STS-82	Bowersox[4], Horowitz[2], Lee[4], Hawley[4], Harbaugh[4], Smith[2], Tanner[2]	02/11/97 02/21/97	Discovery[22]	Hubble Servicing Mission 2	39A 33 KSC
STS-83	Halsell Jr.[3], Still, J.E. Voss[3], Thomas[3], Gernhardt[2], Crouch, Linteris	04/04/97 04/08/97	Columbia[22]	MSL/ SAREX	39A 15 KSC
STS-84	Precourt[3], Collins[2], Foale[4], Noriega, Lu, Clervoy[2], Kondakova[2] Return from MIR: Linenger; Foale replaces him	05/15/97 05/24/97	Atlantis[19]	SPACEHAB-DM MIR docking-6/ crew transfer	39A 33 KSC
STS-94	Halsell Jr.[4], Still[2], J.E. Voss[4], Thomas[4], Gernhardt[3], Crouch[2], Linteris[2]	07/01/97 07/17/97	Columbia[23]	MSL/ SAREX	39A 33 KSC
STS-85	Brown Jr.[4], Rominger[3], Davis[3], Curbeam Jr., Robinson, Tryggvason	08/07/97 08/19/97	Discovery[23]	CRISTA-SPAS (DARA)	39A 33 KSC
STS-86	Wetherbee[4], Bloomfield, Titov[5], Parazynski[2], Chretien[3], Lawrence[2], Wolf[2] Return from MIR: Foale; Wolf replaces him	09/25/97 10/06/97	Atlantis[20]	SPACEHAB-DM MIR docking-7/ crew transfer	39A 15 KSC
STS-87	Kregel[3], Lindsey, Scott[2], Chawla, Doi, Kadenyuk	11/19/97 12/05/97	Columbia[24]	USMP-4/ Spartan-201-04	39B 33 KSC
STS-89	Wilcutt[3], Edwards Jr., Dunbar[5], Anderson, Reilly II, Sharipov, Thomas[2], Return from MIR: Wolf; Thomas replaces him	01/22/98 1/31/98	Endeavour[12]	SPACEHAB-DM MIR-docking-8/ crew transfer	39A 15 KSC
STS-90	Searfoss[3], Altman, Linnehan[2], Williams, Hire, Buckey, Pawelczyk	04/17/98 05/03/98	Columbia[25]	Neurolab/ GAS	39B 33 KSC
STS-91	Precourt[4], Gorie, Lawrence[3],Chang-Diaz[6], Kavandi, Ryumin[4] Return from MIR: Thomas	06/02/98 06/12/98	Discovery[24]	SPACEHAB-SM/ GAS /AMS MIR docking-9/ crew transfer	39A 33 KSC
STS-95	Brown[5], Lindsey[2], Parazynski[3], Robinson[2], Duque, Mukai[2], Glenn	10/29/98 11/07/98	Discovery[25]	SPACEHAB-SM/ Spartan-201/HOST/ IEH-03	39B 33 KSC
STS-88	Cabana[4], Sturckow, Currie[3], Ross[6], Newman[3], Krikalev[2]	12/04/98 12/15/98	Endeavour[13]	Space Station Assembly flight 2A/Unity/Hitchhiker	39A 15 KSC
STS-96	Rominger[4], Husband, Ochoa[3], Jernigan[5], Barry[2], Payette, Tokarev	05/27/99 06/06/99	Discovery [26]	2nd flight to Space Station, carrying STRELA, STARSHINE	39B 15 KSC
STS-93	Collins[3], Ashby, Hawley[5], Coleman[2], Tognini[2]	07/23/99 07/27/99	Columbia [26]	Chandra X-ray Observatory	39B 33 KSC
STS-103	Brown Jr.[6], Kelly, Smith[3], Foale[5], Grunsfeld[3], Nicollier[4], Clervoy[3]	12/19/99 12/27/99	Discovery [27]	Rate Sensor Units, computer, solid state digital recorder, for Hubble Space Telescope	39B 33 KSC
STS-99	Kregel[4], Gorie[2], Kavandi[2], Voss[5], Mohri[2], Thiele	02/11/00 02/22/00	Endeavour[14]	Shuttle Radar Topography Mission	39A 33 KSC
STS-101	Halsell Jr.[5], Horowitz[3], Weber[2], Voss[4], Williams, Helms[4], Usachev	05/19/00 05/29/00	Atlantis[21]	SPACEHAB	39A 15 KSC
STS-106	Wilcutt[4], Altman[2], Lu[2], Malenchenko, Morokov, Mastracchio, Burbank	09/08/00 09/20/00	Atlantis[22]	Hardware, supplies for ISS	39B 15 KSC
STS-92	Duffy[4], Melroy, Chiao[3], McArthur[3], Wisoff[4], Lopez-Alegria[2], Wakata[2]	10/11/00 10/24/00	Discovery[28]	Z1 truss, PMA-3 for ISS	39A 22 EAFB
STS-97	Jettl[3], Bloomfield[2], Tanner[3], Noriega[2], Garneau[3]	11/30/00 12/11/00	Endeavour[15]	Solar Arrays on P6 truss, Floating Potential Probes	39B 15 KSC
STS-98	Cockrell[4], Polansky, Curbeam[2], Jones[4], Ivins[5]	02/07/01 02/20/01	Atlantis[23]	U.S. Lab Destiny, PMA2	39A 22 EAFB
STS-102	Wetherbee[5], Kelly, Thomas[3], Richards, Expedition 2 up: Voss[4], Helms[4], Usachev[2] (RSA); Expedition 1 down: Shepherd, Gidzenko (RSA), Krikalev (RSA)	03/08/01 03/21/01	Discovery[29]	MPLM Leonardo	39B 15 KSC
STS-100	Rominger[5], Ashby[2], Hadfield[2], Parazynski[4], Phillips, Guidoni[2], Lonchakov[1]	04/19/01 05/01/01	Endeavour[16]	Canadarm2, MPLM Raffaello	39A 22 EAFB
STS-104	Lindsey[3], Hobaugh, Kavandi[3], Gernhardt[4], Reilly[2]	07/12/01 07/24/01	Atlantis[24]	Quest joint airlock	39B 15 KSC
STS-105	Horowitz[4], Sturckow[2], Barry[3], Forrester Expedition 3 up: Culbertson[3], Dezhurov, Tyurin; Expedition 2 down: Usachev[2], Helms[4], Voss[4]	08/10/01 08/22/01	Discovery[30]	Early Ammonia Servicer	39A 15 KSC
STS-108	Gorie[3], M. Kelly, Godwin[4], Tani Expedition 4 up: Onufrienko, Bursch[4], Walz[4]; Expedition 3 down: Culbertson[3], Dezhurov, Tyurin	12/05/01 12/17/01	Endeavour[17]	MPLM Raffaello	39B 15 KSC
STS-109	Altman[3], Carey, Grunsfeld[4], Currie[4], Linnehan[3], Newman[4], Massimino	03/01/02 03/12/02	Columbia[27]	Hubble Service: solar array, NIC-MOS, RWA, PCU	39A 33 KSC
STS-110	Bloomfield[3], Frick, Ross[7], Smith[4], Ochoa[4], Morin, Walheim	04/08/02 04/19/02	Atlantis[25]	S0 truss, Mobile Transporter	39B 33 KSC
STS-111	Cockrell[5], Lockhart, Chang-Diaz[7], Perrin (CNES); Expedition 5 up: Korzun[2], Whitson, Treschev; Expedition 4 down: Onufriyenko, Bursch[4], Walz[4]	06/05/02 06/19/02	Endeavour[18]	MBS, MPLM Leonardo	39A 22 EAFB
STS-112	Ashby[3], Melroy[2], Wolf[3], Sellers, Magnus, Yurchikhin (RSA)	10/07/02 10/18/02	Atlantis[26]	S1 truss, CETA Cart A	39B 33 KSC
STS-113	Wetherbee[6], Lockhart[2], Lopez-Alegria[3], Herrington; Expedition 6 (up): Bowersox[5], Budarin[2], Pettit; Expedition 5 (down): Korzun, Whitson, Treschev	11/23/02 12/07/02	Endeavour[19]	P1 truss to ISS, CETA, Cart B	39A 33 KSC
STS-107	Husband[2], McCool[1], Anderson[2], Chawla[2], Brown[1], Clark[1], Ramon[1]	01/16/03	Columbia[28]	SPACEHAB, FREESTAR, SIMPLEX, RAMBO	39A Columbia and crew were lost in an explosion over E. Texas
STS-114	Collins[4], Kelly[2], Noguchi (JAXA), Robinson[3], Thomas[4], Lawrence[4], Camarda	07/26/05 08/09/06	Discovery[31]	OBSS laser scanner, new launch cameras	39B 22 EAFB
STS-121	Lindsey[4], Kelly[2], Sellers[2], Fossum, Nowak, Wilson, Reiter (ESA)	07/04/06 07/17/06	Discovery[32]	MPLM Leonardo CMG replacement	39B 15 KSC
STS-115	Jett[4], Ferguson, Tanner[4], Burbank[2], MacLean[2] (CSA), Stefanyshyn-Piper	09/09/06 09/21/06	Atlantis[27]	P3/P4 truss to ISS	39B 33 KSC
STS-116	Polansky[2], Oefelein, Curbeam[3], Higginbotham, Patrick, Fuglesang, Williams to ISS (Thomas Reiter returning)	12/09/06 12/22/06	Discovery[33]	P5 truss to ISS	39B 15 KSC
STS-117	Sturckow[3], Archambault, Reilly[3], Forrester[2], Swanson, Olivas, Anderson to ISS (Sunita Williams returning)	06/08/07 06/22/07	Atlantis[28]	S3/S4 truss	39A 22 EAFB
STS-118	Kelly[2], Hobaugh[2], Williams[2], Morgan, Mastracchio[2], Caldwell, Drew	08/08/07 08/21/07	Endeavour[20]	S5 truss, CMG ESP3	39A 15 KSC
STS-120	Melroy[3], Zamka, Parazynski[5], Wheelock, Wilson[2], Nespoli, Tani[2] to ISS (Clay Anderson returning)	10/23/07 11/07/07	Discovery[34]	Harmony Node 2	39A 33 KSC
STS-122	Frick[2], Poindexter[1], Walheim[2], Love[1], Melvin[1], Schlegel[2], Eyharts to ISS (Dan Tani returning)	02/07/08 02/20/08	Atlantis[29]	Columbus Lab	39A 15 KSC
STS-123	Gorie[4], Johnson, Linnehan[4], Behnken, Foreman, Doi[2], Reisman to ISS (Leopold Eyharts returning)	03/11/08 03/26/08	Endeavour[21]	Kibo ELM/PS, Dextre	39A 15 KSC
STS-124	Kelly[3], Ham, Nyberg, Garan, Fossum[2], Hoshide, Chamitoff to ISS (Garrett Reisman returning)	05/31/08 06/14/08	Discovery[35]	Kibo JPM, Kibo RMS	39A 15 KSC
STS-126	Ferguson[2], Boe, Bowen, Kimbrough, Piper[2], Pettit[2], Magnus[2] to ISS (Gregory Chamitoff returning)	11/14/08 11/30/08	Endeavour[22]	MPLM Leonardo	39A EAFB
STS-119	Archambault[2],Antonelli, Acaba, Arnold, Phillips[3], Swanson[2], Wakata to ISS (Sandra Magnus returning)	03/15/09 03/28/09	Discovery[36]	S6 truss	39A 15 KSC
STS-125	Altman[4], Johnson, Good, McArthur, Grunsfeld[5], Massimino[2], Feustel	05/11/09 05/24/09	Atlantis[30]	5th & final Hubble ST Servicing Mission	39A EAFB
STS-127	Polansky[3], Hurley, Cassidy, Marshburn, Wolf[4], Payette[2], Kopra to ISS (Koichi Wakata returning)	07/15/09 07/31/09	Endeavour	JEM EF, ELM-ES, ICC-VLD	39A 15 KSC
STS-128	Sturckow[4], Ford, Olivas[2], Forrester[3], Hernandez, Fuglesang[2], Stott to ISS (Tim Kopra returning)	08/28/09 09/11/09	Discovery	MPLM Leonardo	39A EAFB



Atop a column of fire, space shuttle Discovery hurtles into a clear blue sky over Central Florida on its STS-124 mission to the International Space Station. Launch was on time at 5:02 p.m. EDT May 31, 2008. During the 14-day mission, the shuttle crew installed the Japan Aerospace Exploration Agency's Kibo Japanese Pressurized Module and its remote manipulator system, or RMS.

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Information Summary