

Flights of Discovery (OV-103)

Times Flown	Mission Name	Crew	Launch Pad	Launch Date	Landing Date & Site	Primary Payload
1	41-D	Hartsfield, Coats, Resnik, Mullane, Hawley, Walker	39A	08/30/84	09/05/84 at Edwards	SBS; SYNCOM IV-2
2	51-A	Hauck, Walker, Fisher, Gardner, Allen	39A	11/08/84	11/16/84 at KSC	TELESAT-H; SYNCOM IV-1
3	51-C	Mattingly, Shriver, Buchli, Onizuka, Payton	39A	01/24/85	01/27/85 at KSC	DOD
4	51-D	Bobko, Williams, Seddon, Griggs, Hoffman, Walker, Garn	39A	04/12/85	04/19/85 at KSC	TELESAT-1; SYNCOM IV-3
5	51-G	Brandenstein, Creighton, Lucid, Nagel, Fabian, Baudry, Salman-Al-Saud	39A	06/17/85	06/24/85 at Edwards	MORELOS-A; ARABSAT-A
6	51-I	Engle, Covey, Van Hoften, Lounge, Fisher	39A	08/27/85	09/03/85 at Edwards	AUSSAT-1; SYNCOM IV-4
7	STS-26	Hauck, Covey, Lounge, Hilmers, Nelson	39B	09/29/88	10/03/88 at Edwards	TDRS-3
8	STS-29	Coats, Blaha, Buchli, Springer, Bagian	39B	03/13/89	03/18/89 at Edwards	TDRS-4
9	STS-33	Gregory, Blaha, Musgrave, Thornton, Carter	39B	11/22/89	11/27/89 at Edwards	DOD
10	STS-31	Shriver, Bolden, Hawley, McCandless, Sullivan	39B	04/24/90	04/29/90 at Edwards	Hubble Space Telescope
11	STS-41	Richards, Cabana, Shepherd, Melnick, Akers	39B	10/06/90	10/10/90 at Edwards	Ulysses
12	STS-39	Coats, Hammond, Bluford, Hieb, Harbaugh, McMonagle, Veach	39A	04/28/91	05/06/92 at KSC	DOD
13	STS-48	Creighton, Reightler, Brown, Gemar, Buchli	39A	09/12/91	09/18/91 at Edward	UARS
14	STS-42	Grabe, Oswald, Readdy, Merbold, Thagard, Hilmers, Bondar	39A	01/22/92	01/30/92 at Edwards	IML-1
15	STS-53	Walker, Cabana, Bluford, Voss, Clifford	39A	12/02/92	12/9/92 at Edwards	DOD
16	STS-56	Cameron, Oswald, Cockrell, Foale, Ochoa	39B	04/08/93	04/17/93 at KSC	ATLAS-2
17	STS-51	Culbertson, Readdy, Newman, Bursch, Walz	39B	09/12/93	09/22/93 at KSC	ACTS
18	STS-60	Bolden, Reightler, Chang-Diaz, Davis, Sega, Krikalev	39A	02/03/94	02/11/94 at KSC	Wake Shield Facility-1; SPACEHAB-2
19	STS-64	Richards, Hammond, Helms, Meade, Lee, Linenger	39B	09/09/94	09/20/94 at Edwards	LITE; SPARTAN-201
20	STS-63	Wetherbee, Collins, Harris, Voss, Foale, Titov	39B	02/03/95	02/11/95 at KSC	Mir rendezvous; SPACEHAB-3
21	STS-70	Henricks, Kregel, Currie, Thomas, Weber	39B	07/13/95	07/22/95 at KSC	TDRS-7
22	STS-82	Bowersox, Horowitz, Lee, Hawley, Harbaugh, Smith, Tanner	39A	02/11/97	02/21/97 at KSC	2nd Hubble Space Telescope servicing
23	STS-85	Brown, Rominger, Davis, Curbeam, Robinson, Tryggvason	39A	08/07/97	08/19/97 at KSC	CRISTA-SPAS-2, JEM, TAS-1, IEH-2
24	STS-91	Precourt, Gorie, Lawrence, Chang-Diaz, Kavandi, Ryumin Returning (Mir 25): Thomas	39A	06/02/98	06/12/98 at KSC	9th and final Shuttle-Mir docking
25	STS-95	Brown, Lindsey, Parazynski, Robinson, Duque, Mukai, Glenn	39B	10/29/98	11/07/98 at KSC	SPACEHAB- SM; Spartan-201; HOST; IEH-26
26	STS-96	Rominger, Husband, Ochoa, Jernigan, Barry, Payette, Tokarev	39B	05/27/99	06/06/99 at KSC	Orbital Transfer Device, Strela, ISS supplies
27	STS-103	Brown, Kelly, Smith, Foale, Grunsfeld, Nicollier, Clervoy	39B	12/19/99	12/27/99 at KSC	3rd Hubble Space Telescope servicing
28	STS-92	Duffy, Melroy, Chiao, McArthur, Wisoff, Lopez-Alegria, Wakata	39A	10/11/00	10/24/00 at Edwards	100th Shuttle Flight, Zenith Z1 Truss,
29	STS-102	Wetherbee, Kelly, Thomas, Richards, Voss, Helms, Usachev	39B	03/08/01	03/21/01 at KSC	MPLM Leonardo, Expedition 2 Crew Up
30	STS-105	Horowitz, Sturckow, Barry, Forrester, Culbertson, Tyurin, Dezhurov	39A	08/10/01	08/22/01 at KSC	Exp. 3 Crew Up, Early Ammonia Servicer
31	STS-114	Collins, Kelly, Robinson, Thomas, Camarda, Lawrence, Noguchi (JAXA)	39B	07/26/05	08/09/05 at Edwards	RTF, MPLM Raffaello, HRF-2, OBSS
32	STS-121	Lindsey, Kelly, Fossum, Nowak, Wilson, Sellers, Reiter (ESA)	39B	07/04/06	07/17/06 at KSC	Umbilical Reel Assembly, MPLM Leonardo
33	STS-116	Polansky, Oefelein, Curbeam, Higginbotham, Patrick, Fuglesang, Williams (up to ISS); Rieter (down from ISS)	39B	12/09/06	12/22/06 at KSC	P5 truss
34	STS-120	Melroy, Zamka, Parazynski, Wheelock, Wilson, Nespoli, Tani (up to ISS); Anderson (down from ISS)	39A	10/23/07	11/7/07 at KSC	Harmony Node 2
35	STS-124	Kelly, Ham, Nyberg, Garan, Fossum, Hoshide, Chaitoff (up to ISS); Reisman (down from ISS)	39A	05/31/08	06/14/08 at KSC	Kibo Japanese Pressurized Module
36	STS-119	Archambault, Antonelli, Acaba, Arnold, Phillips, Swanson, Wakata (up to ISS); Magnus (down from ISS)	39A	03/15/09	03/28/09 at KSC	S6 truss
37	STS-128	Sturckow, Ford, Olivas, Forrester, Hernandez, Fuglesang, Stott (up to ISS); Kopra (down from ISS)	39A	08/28/09	09/11/09 at Edwards	MPLM Leonardo



Discovery (OV-103)

America's fleet of Space Shuttle orbiters are named after pioneering sea vessels that established new frontiers in research and exploration.

NASA delved through the history books to find ships which achieved historical significance through discoveries about the world's oceans or the Earth itself. Another important criterion in the selection process was consideration for the international nature of the Space Shuttle program.

Discovery, the third orbiter to become operational at Kennedy Space Center, was named after one of two ships that were used by the British explorer James Cook in the 1770s during voyages in the South Pacific that led to the discovery of the Hawaiian Islands. Another of his ships was the Endeavour, the namesake of NASA's newest orbiter.

Cook also used Discovery to explore the coasts of southern Alaska and northwestern Canada. During the American Revolutionary War, Benjamin Franklin made a safe conduct request for the British vessel because of the scientific importance of its research.

Other famous ships have carried the name Discovery, including one used to explore Hudson Bay in Canada, as well

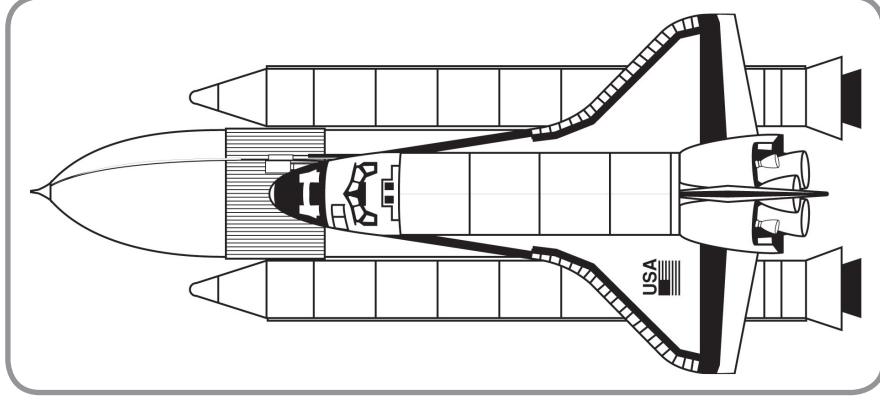
as search for what was hoped to be the northwest passage from the Atlantic to the Pacific in 1610 and 1611.

Another, based on whaling ship design, was used by the British Royal Geographical Society for an expedition to the North Pole in 1875. This organization then built another Discovery in 1901 to conduct its Antarctic expedition that concluded in 1904. This ship still exists and is being preserved by the Society.

The first orbiter to fly in space was Columbia in 1981, followed by Challenger in 1983. Discovery arrived at KSC later that year, and was launched on its first mission in 1984. Atlantis followed Discovery, arriving at the Center in 1985, with Endeavour, the replacement for Challenger, being delivered at KSC atop the Shuttle Carrier Aircraft in 1991.

A test vehicle, the Enterprise, was used for suborbital approach and landing tests, and did not fly in space.

In the day-to-day world of Shuttle operations and processing, the Space Shuttle orbiters go by a more prosaic designation. Discovery is commonly referred to as OV-103, for Orbital Vehicle-103. Atlantis and Endeavour are, respectively, OV-104 and OV-105.



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