


























missions

High-performing personnel are key to International Space Station (ISS) mission success. International crewmembers and ground controllers who support assembly, logistics, and long-duration missions have highly specialized skills and training. They also utilize procedures and tools developed especially for the ISS.

The experience gained from the ISS Program has improved the interaction between the flight crews and ground-team members and has made missions safer and more effective. Moreover, working with teams from many countries and cultures on the ground and in space has provided (and continues to provide) innovative solutions to critical operational challenges.

ISS Expeditions and Crews

Expedition	Patch	Crew
Expedition 1		
Expedition 2		
Expedition 3		
Expedition 4		
Expedition 5		
Expedition 6		
Expedition 7		

Expedition	Patch	Crew
Expedition 8		
Expedition 9		
Expedition 10		
Expedition 11		
Expedition 12		
Expedition 13		
Expedition 14		

Expedition 1

William Shepherd, U.S.
Yuri Gidzenko, Russia
Sergei Krikalev, Russia
Launched: Oct. 2000
Returned: Mar. 2001
136 days on ISS (141 in space)

Expedition 2

Yuri Usachev, Russia
Jim Voss, U.S.
Susan Helms, U.S.
Launched: Mar. 2001
Returned: Aug. 2001
163 days on ISS (167 in space)

Expedition 3

Frank Culbertson, U.S.
Vladimir Dezhurov, Russia
Mikhail Tyurin, Russia
Launched: Aug. 2001
Returned: Dec. 2001
125 days on ISS (129 in space)

Expedition 4

Yury Onufrienko, Russia
Carl Walz, U.S.
Daniel Bursch, U.S.
Launched: Dec. 2001
Returned: June 2002
190 days on ISS (196 in space)

Expedition 5

Valery Korzun, Russia
Sergei Treschev, Russia
Peggy Whitson, U.S.
Launched: June 2002
Returned: Dec. 2002
178 days on ISS (185 in space)

Expedition 6

Kenneth Bowersox, U.S.
Nikolai Budarin, Russia
Donald Pettit, U.S.
Launched: Nov. 2002
Returned: May 2003
159 days on ISS (161 in space)

Expedition 7

Yuri Malenchenko, Russia
Edward Lu, U.S.
Launched: Apr. 2003
Returned: Oct. 2003
183 days on ISS (185 in space)

Expedition 8

Michael Foale, U.S.
Alexander Kaleri, Russia
Launched: Oct. 2003
Returned: Apr. 2004
193 days on ISS (195 in space)

Expedition 9

Gennady Padalka, Russia
E. Michael Fincke, U.S.
Launched: Apr. 2004
Returned: Oct. 2004
186 days on ISS (188 in space)

Expedition 10

Leroy Chiao, U.S.
Salizhan Sharipov, Russia
Launched: Oct. 2004
Returned: Apr. 2005
191 days on ISS (193 in space)

Expedition 11

Sergei Krikalev, Russia
John Phillips, U.S.
Launched: Apr. 2005
Returned: Oct. 2005
177 days on ISS (179 in space)

Expedition 12

William McArthur, U.S.
Valery Tokarev, Russia
Launched: Sept. 2005
Returned: Apr. 2006
184 days on ISS (190 in space)

Expedition 13

Pavel Vinogradov, Russia
Jeffrey Williams, U.S.
Thomas Reiter, Germany (start July 2006)
Launched: Apr. 2006
Returned: Sept. 2006 (projected)

Expedition 14

Michael Lopez-Alegria, U.S.
Mikhail Tyurin, Russia
Sunita Williams, U.S.
Scheduled: Sept. 2006–Mar. 2007

Note: Only professional astronauts participating in ISS functions are included. See page 83 for Space Flight Participants who have visited the ISS.

STS Missions and Crews Space Shuttle Missions to the International Space Station

Mission	Patch	Crew
STS-88		
STS-96		
STS-101		

Mission	Patch	Crew
STS-106		
STS-92		
STS-97		

Mission	Patch	Crew
STS-98		
STS-102		
STS-100		
STS-104		

Mission	Patch	Crew
STS-105		
STS-108		
STS-110		
STS-111		

STS-88 Endeavour

Robert Cabana, U.S.
Nancy Currie, U.S.
Sergei Krikalev, Russia (Roscosmos)
James Newman, U.S.
Jerry Ross, U.S.
Frederick Sturckow, U.S.
Launched: Dec. 4, 1998
Returned: Dec. 15, 1998

STS-96 Discovery

Kent Rominger, U.S.
Daniel Barry, U.S.
Rick Husband, U.S.
Tamara Jernigan, U.S.
Ellen Ochoa, U.S.
Julie Payette, Canada (CSA)
Valery Tokarev, Russia (Roscosmos)
Launched: May 27, 1999
Returned: June 6, 1999

STS-101 Atlantis

James Halsell, U.S.
Susan Helms, U.S.
Scott Horowitz, U.S.
Yury Usachev, Russia (Roscosmos)
James Voss, U.S.
Mary Weber, U.S.
Jeffrey Williams, U.S.
Launched: May 19, 2000
Returned: May 29, 2000

STS-106 Atlantis

Terrence Wilcutt, U.S.
Scott Altman, U.S.
Daniel Burbank, U.S.
Edward Lu, U.S.
Yuri Malenchenko, Russia (Roscosmos)
Richard Mastracchio, U.S.
Boris Morukov, Russia (Roscosmos)
Launched: Sept. 8, 2000
Returned: Sept. 19, 2000

STS-92 Discovery

Leroy Chiao, U.S.
Brian Duffy, U.S.
Michael Lopez-Alegria, U.S.
William McArthur, U.S.
Pamela Melroy, U.S.
Koichi Wakata, Japan (NASDA)
Peter Wisoff, U.S.
Launched: Oct. 11, 2000
Returned: Oct. 24, 2000

STS-97 Endeavour

Michael Bloomfield, U.S.
Marc Garneau, Canada (CSA)
Brent Jett, U.S.
Carlos Noriega, U.S.
Joseph Tanner, U.S.
Launched: Nov. 30, 2000
Returned: Dec. 11, 2000

STS-98 Atlantis

Kenneth Cockrell, U.S.
Robert Curbeam, U.S.
Marsha Ivins, U.S.
Thomas Jones, U.S.
Mark Polansky, U.S.
Launched: Feb. 7, 2001
Returned: Feb. 20, 2001

STS-102 Discovery

James Wetherbee, U.S.
James Kelly, U.S.
Paul Richards, U.S.
Andrew Thomas, U.S.
Yuri Usachev, Russia (Roscosmos), up*
James Voss, U.S., up*
Susan Helms, U.S., up*
William Shepherd, U.S., down*
Yuri Gidzenko, Russia (Roscosmos), down*
Sergei Krikalev, Russia (Roscosmos), down*
Launched: Mar. 8, 2001
Returned: Mar. 21, 2001

STS-100 Endeavour

Jeffrey Ashby, U.S.
Umberto Guidoni, Italy (ESA)
Chris Hadfield, Canada (CSA)
Scott Parazynski, U.S.
John Phillips, U.S.
Kent Rominger, U.S.
Yuri Lonchakov, Russia (Roscosmos)
Launched: Apr. 19, 2001
Returned: May 1, 2001

STS-104 Atlantis

Michael Gernhardt, U.S.
Charles Hobaugh, U.S.
Janet Kavandi, U.S.
Steven Lindsey, U.S.
James Reilly, U.S.
Launched: July 12, 2001
Returned: July 24, 2001

STS-105 Discovery

Daniel Barry, U.S.
Patrick Forrester, U.S.
Scott Horowitz, U.S.
Frederick Sturckow, U.S.
Frank Culbertson, U.S., up*
Vladimir Dezhurov, Russia (Roscosmos), up*
Mikhail Turin, Russia (Roscosmos), up*
Yuri Usachev, Russia (Roscosmos), down*
James Voss, U.S., down*
Susan Helms, U.S., down*
Launched: Aug. 10, 2001
Returned: Aug. 22, 2001

STS-108 Endeavour

Daniel Tani, U.S.
Linda Godwin, U.S.
Dominic Gorie, U.S.
Mark Kelly, U.S.
Daniel Bursch, U.S., up*
Yuri Onufrienko, Russia (Roscosmos), up*
Carl Walz, U.S., up*
Frank Culbertson, U.S., down*
Vladimir Dezhurov, Russia (Roscosmos), down*
Mikhail Turin, Russia (Roscosmos), down*
Launched: Dec. 5, 2001
Returned: Dec. 17, 2001

STS-110 Atlantis

Michael Bloomfield, U.S.
Stephen Frick, U.S.
Lee Morin, U.S.
Ellen Ochoa, U.S.
Jerry Ross, U.S.
Steven Smith, U.S.
Rex Walheim, U.S.
Launched: Apr. 8, 2002
Returned: Apr. 19, 2002

STS-111 Endeavour

Franklin Chang-Diaz, U.S.
Kenneth Cockrell, U.S.
Paul Lockhart, U.S.
Philippe Perrin, France (CNES)
Valery Korzun, Russia (Roscosmos), up*
Sergei Treschev, Russia (Roscosmos), up*
Peggy Whitson, U.S., up*
Daniel Bursch, U.S., down*
Yuri Onufrienko, Russia (Roscosmos), down*
Carl Walz, U.S., down*
Launched: June 5, 2002
Returned: June 19, 2002

*"Up" means that the crewmember launched on this flight; "down" means that the crewmember returned on this flight.

(continued on page 80)

STS Missions and Crews *(continued from page 79)*

Mission	Patch	Crew
STS-112		
STS-113		
STS-114		
STS-121		
STS-115		

STS-112 Atlantis

Jeffrey Ashby, U.S.
Sandra Magnus, U.S.
Pamela Melroy, U.S.
Piers Sellers, U.S.
David Wolf, U.S.
Fyodor Yurchikhin, Russia
(Roscosmos)
Launched: Oct. 7, 2002
Returned: Oct. 18, 2002

STS-113 Endeavour

John Herrington, U.S.
Paul Lockhart, U.S.
Michael Lopez-Alegria, U.S.
James Wetherbee, U.S.
Kenneth Bowersox, U.S., up*
Nikolai Budarin, Russia
(Roscosmos), up*
Donald Pettit, U.S., up*
Valery Korzun, Russia
(Roscosmos), down*
Sergei Treschev, Russia
(Roscosmos), down*
Peggy Whitson, U.S., down*
Launched: Nov. 23, 2002
Returned: Dec. 7, 2002

STS-114 Discovery

Eileen Collins, U.S.
James Kelly, U.S.
Soichi Noguchi, Japan (JAXA)
Stephen Robinson, U.S.
Andrew Thomas, U.S.
Wendy Lawrence, U.S.
Charles Camarda, U.S.
Launched: July 26, 2005
Returned: Aug. 9, 2005

STS-121 Discovery

Steven Lindsey, U.S.
Mark Kelly, U.S.
Michael Fossum, U.S.
Piers Sellers, U.S.
Lisa Nowak, U.S.
Stephenie Wilson, U.S.
Thomas Reiter, Germany
(ESA), up*
Launched: July 4, 2006
Returned: July 17, 2006

STS-115 Atlantis

Brent Jett, U.S.
Christopher Ferguson, U.S.
Heidemarie Stefanyshyn-Piper, U.S.
Joseph Tanner, U.S.
Daniel Burbank, U.S.
Steven MacLean, Canada (CSA)
Scheduled to launch: Aug. 2006
Scheduled to return: Sept. 2006

*"Up" means that the crewmember launched on this flight; "down" means that the crewmember returned on this flight.

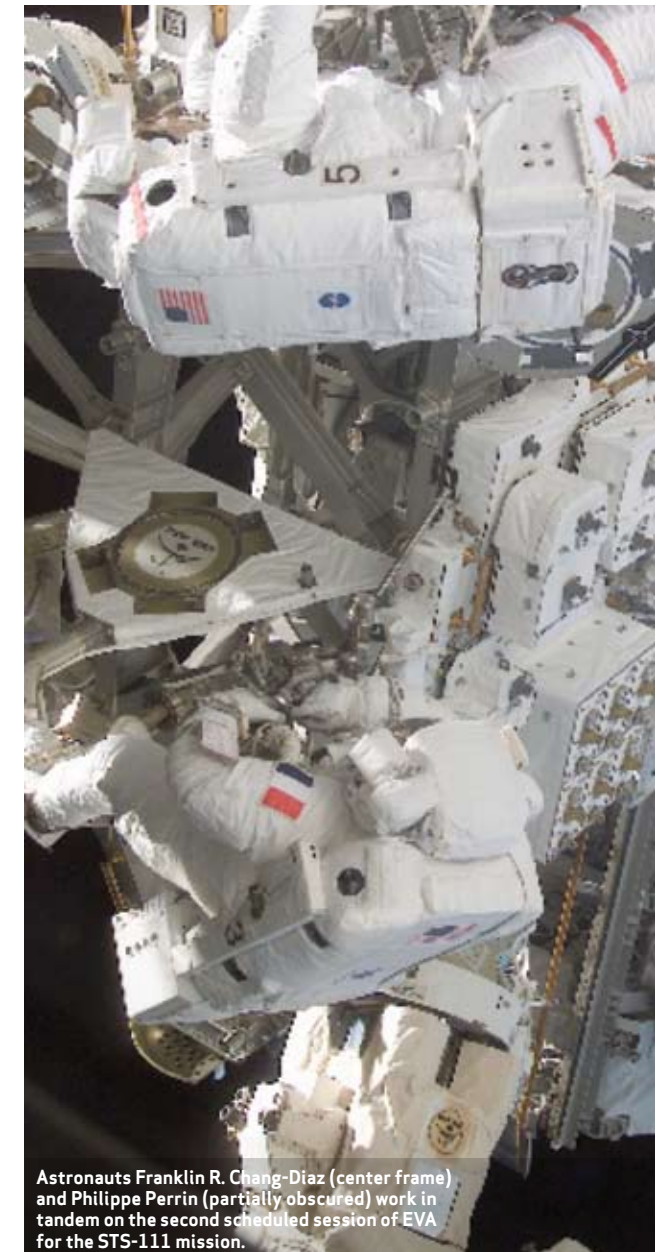


Soyuz docked to the FGM. The Space Shuttle is in the background.

Shuttle ISS Missions

Shuttle Flight/ ISS Sequence No.	Launched	Landed	Docked
STS-88/2A	12/04/98	12/15/98	6 d, 20 h, 38 m
STS-96/2A.1	05/27/99	06/06/99	5 d, 18 h, 17 m
STS-101/2A.2a	05/19/00	05/29/00	5 d, 18 h, 32 m
STS-106/2A.2b	09/08/00	09/19/00	7 d, 21 h, 54 m
STS-92/3A	10/11/00	10/24/00	6 d, 21 h, 24 m
STS-97/4A	11/30/00	12/11/00	6 d, 23 h, 13 m
STS-98/5A	02/07/01	02/20/01	6 d, 21 h, 15 m
STS-102/5A.1	03/08/01	03/21/01	8 d, 21 h, 54 m
STS-100/6A	04/19/01	05/01/01	8 d, 3 h, 35 m
STS-104/7A	07/12/01	07/24/01	8 d, 1 h, 46 m
STS-105/7A.1	08/10/01	08/22/01	7 d, 20 h, 10 m
STS-108/UF-1*	12/05/01	12/17/01	7 d, 21 h, 25 m
STS-110/8A	04/08/02	04/19/02	7 d, 2 h, 26 m
STS-111/UF-2*	06/05/02	06/19/02	7 d, 22 h, 7 m
STS-112/9A	10/07/02	10/18/02	6 d, 21 h, 56 m
STS-113/11A	11/23/02	12/07/02	6 d, 22 h, 6 m
STS-114/LF-1*	07/26/05	08/09/05	8 d, 19 h, 54 m
STS-121/ULF-1.1*	07/01/06	07/17/06	8 d, 19 h, 16 m
TOTALS:			134 d, 9 h, 48 m

*"UF" means utilization flight; "LF" means logistics flight; "ULF" means utilization and logistics flight.



Astronauts Franklin R. Chang-Diaz (center frame) and Philippe Perrin (partially obscured) work in tandem on the second scheduled session of EVA for the STS-111 mission.



Astronaut Michael L. Gernhardt participates in a spacewalk aimed toward wrapping up work on the second phase of the ISS.



Soyuz ISS Missions

Spacecraft	Launched	Duration (Docked)	Landed	Crew Up	Crew Down
Soyuz TM-31 1S	10/31/00	186 days	05/06/01	Yuri Gidzenko, Russia (Roscosmos), Sergei Krikalev, Russia (Roscosmos), William Shepherd, USA (NASA)	Talgat Musabayev, Russia (Roscosmos), Yuri Baturin, Russia (Roscosmos), Dennis Tito, USA, SFP†
Soyuz TM-32 2S	04/28/01	186 days	10/31/01	Talgat Musabayev, Russia (Roscosmos), Yuri Baturin, Russia (Roscosmos), Dennis Tito, USA, SFP†	Viktor Afansayev, Russia (Roscosmos), Claudie Hagniere, France (CNES), Konstantin Kozayev, Russia (Roscosmos)
Soyuz TM-33 3S	10/21/01	196 days	05/05/02	Viktor Afansayev, Russia (Roscosmos), Claudie Hagniere, France (CNES), Konstantin Kozayev, Russia (Roscosmos)	Yuri Gidzenko, Russia (Roscosmos), Roberto Vittori, Italy (ESA), Konstantin Kozayev, Russia (Roscosmos),
Soyuz TM-34 4S	04/25/02	198 days	11/10/02	Yuri Gidzenko, Russia (Roscosmos), Roberto Vittori, Italy (ESA), Konstantin Kozayev, Russia (Roscosmos)	Sergei Zalyotin, Russia (Roscosmos), Frank De Winne, Belgium (ESA), Yuri Lonchakov, Russia (Roscosmos)
Soyuz TMA-1 5S	10/30/02	186 days	05/04/03	Sergei Zalyotin, Russia (Roscosmos), Frank De Winne, Belgium (ESA), Yuri Lonchakov, Russia (Roscosmos)	Nikolai Budarin, Russia (Roscosmos) Kenneth Bowersox, U.S. (NASA) Donald Pettit, U.S. (NASA)
Soyuz TMA-2 6S	04/26/03	185 days	10/28/03	Yuri Malenchenko, Russia (Roscosmos) Edward Lu, U.S. (NASA)	Yuri Malenchenko, Russia (Roscosmos) Edward Lu, U.S. (NASA) Pedro Duque, Spain (ESA)
Soyuz TMA-3 7S	10/18/03	192 days	04/30/04	Michael Foale, U.S. (NASA) Alexander Kaleri, Russia (Roscosmos) Pedro Duque, Spain (ESA)	Michael Foale, U.S. (NASA) Alexander Kaleri, Russia (Roscosmos) Andre Kuipers, Netherlands (ESA)
Soyuz TMA-4 8S	04/19/04	187 days	10/24/04	Gennady Padalka, Russia (Roscosmos) Edward Michael Fincke, U.S. (NASA) Andre Kuipers, Netherlands (ESA)	Gennady Padalka, Russia (Roscosmos) Edward Michael Fincke, U.S. (NASA) Yuri Shargin, Russia (Roscosmos)
Soyuz TMA-5 9S	10/14/04	193 days	04/24/05	Salizhan Sharipov, Russia (Roscosmos) Leroy Chiao, U.S. (NASA) Yuri Shargin, Russia (Roscosmos)	Salizhan Sharipov, Russia (Roscosmos) Leroy Chiao, U.S. (NASA) Roberto Vittori, Italy (ESA)
Soyuz TMA-6 10S	04/15/05	180 days	10/11/05	Sergei Krikalev, Russia (Roscosmos) John Phillips, U.S. (NASA) Roberto Vittori, Italy (ESA)	Sergei Krikalev, Russia (Roscosmos) John Phillips, U.S. (NASA) Gregory Olsen, U.S., SFP†
Soyuz TMA-7 11S	10/01/05	190 days	04/08/06	Valery Tokarev, Russia (Roscosmos) William McArthur, U.S. (NASA) Gregory Olsen, U.S., SFP†	Valery Tokarev, Russia (Roscosmos) William McArthur, U.S. (NASA) Marcos Pontes, Brazil, SFP†
Soyuz TMA-8 12S	03/30/06	178 days planned	09/25/06 planned	Pavel Vinogradov, Russia (Roscosmos) Jeffrey Williams, U.S. (NASA) Marcos Pontes, Brazil, SFP†	Pavel Vinogradov, Russia (Roscosmos) Jeffrey Williams, U.S. (NASA) TBD

† Space Flight Participant (SFP)



Progress ISS Missions

Spacecraft*	ISS Flight Sequence	Launched	Undocked	Duration (Docked)	Deorbit
Progress M1-3	1P	08/06/00	11/01/00	84 d, 7 h, 51 m	11/01/00
Progress M1-4	2P	11/16/00	02/08/01	82 d, 7 h, 39 m	02/08/01
Progress M-44	3P	02/26/01	04/13/01	46 d, 22 h, 58 m	04/13/01
Progress M1-6	4P	05/21/01	08/22/01	91 d, 5 h, 38 m	08/22/01
Progress M-45	5P	08/21/01	11/22/01	91 d, 6 h, 21 m	11/22/01
Progress M1-7	6P	11/26/01	03/19/02	110 d, 22 h	03/20/02
Progress M1-8	7P	03/21/02	06/25/02	92 d, 11 h, 29 m	06/25/02
Progress M-46	8P	06/26/02	09/24/02	87 d, 7 h, 36 m	10/14/02
Progress M1-9	9P	09/25/02	02/01/03	124 d, 23 h	02/01/03
Progress M-47	10P	02/02/03	08/28/03	205 d, 7 h, 59 m	08/28/03
Progress M1-10	11P	06/08/03	09/04/03	85 d, 8 h, 26 m	10/03/03
Progress M-48	12P	08/29/03	01/28/04	150 d, 4 h, 55 m	01/29/04
Progress M1-11	13P	01/29/04	05/24/04	113 d, 20 h, 06 m	06/03/04
Progress M-49	14P	05/25/04	07/30/04	63 d, 16 h, 11 m	07/30/04
Progress M-50	15P	08/11/04	12/22/04	130 d, 13 h, 34 m	12/22/04
Progress M-51	16P	12/23/04	02/27/05	65 d	03/09/05
Progress M-52	17P	02/28/05	06/16/05	106 d, 1 h, 5 m	06/16/05
Progress M-53	18P	06/17/05	09/07/05	80 d, 5 h, 41 m	09/07/05
Progress M-54	19P	09/08/05	03/03/06	173 d, 23 h, 24 m	03/05/06
Progress M-55	20P	12/21/05	6/19/06	179d	06/20/06
Progress M-56	21P	04/24/06	Planned 09/15/06	TBD	TBD
Progress M-57	22P	06/24/06	Planned 12/19/06	TBD	TBD

*All Progress spacecraft were/will be launched by Soyuz launch vehicles.

