

# Upcoming Space Shuttle Missions

Updated Oct. 4, 2004 (replaces July 15)

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<b>STS MISSION No.</b> (nth Shuttle flight)	<b>STS-114</b> (114)	<b>STS-121</b> (115)	<b>STS-115</b> (116)	<b>STS-116</b> (117)
<b>Orbiter</b> (nth flight of orbiter)	Discovery/OV-103 (31)	TBD	TBD	TBD
<b>Primary Mission</b>	17th ISS flight (LF1) -- MPLM	18th ISS flight (ULF-1.1) -- crew rotation	19th ISS flight (12A) -- P3/P4 arrays	20th ISS flight (12A.1) -- SPACEHAB
<b>**Target Launch Date</b> <b>(Pad)</b>	<b>*NET May 14, 2005</b> 39B	<b>*TBD</b> 39B	<b>TBD</b> 39B	<b>TBD</b> 39B
<b>Estimated Launch Window</b>	5-10 minutes	5-10 minutes	5-10 minutes	5-10 minutes
<b>KSC Landing Date</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>
<b>Mission Duration</b>	12 days	11 days	11 days	12 days
<b>Inclination/Orbital Insertion Altitude</b>	51.6 degrees 122 nautical miles	51.6 degrees 122 nautical miles	51.6 degrees 122 nautical miles	51.6 degrees 122 nautical miles
<b>Crew (Shuttle flight number)</b> (Size)	Cdr: Eileen Collins (4) Plt: James Kelly (2) MS: Soichi Noguchi (JAXA) (1) MS: Stephen Robinson (3) MS: Andrew Thomas (4) MS: Wendy Lawrence (4) MS: Charles Camarda (1)  (7)	Cdr: Steven W. Lindsey (4) Plt: Mark E. Kelly (2) MS: Piers J. Sellers (2) MS: Michael E. Fossum (1)  (7 up/6 down)	Cdr: Brent Jett (4) Plt: Christopher Ferguson (1) MS: Joseph Tanner (4) MS: Daniel Burbank (2) MS: Steven MacLean (CSA) (2) MS: Heidemarie Stefanyshyn- Piper (1)  (6)	Cdr: Terrence Wilcutt (5) Plt: William Oefelein (1) MS: Robert Curbeam (3) MS: Christer Fuglesang (ESA) (1)  Additional crew members to be determined.  (6)

\*\* Target launch and landing dates are based on KSC assessments. Official launch dates are set at the Flight Readiness Review.

\* Change from earlier update

**All Times are Eastern**

**ASI** = Italian Space Agency    **Cdr** = Commander    **CNES** = French Space Agency    **CSA** = Canadian Space Agency    **ESA** = European Space Agency    **ISA** = Israel Space Agency    **ISS** = International Space Station    **ITS** = Integrated Truss Structure segment    **MPLM** = Multi-Purpose Logistics Module    **MS** = Mission Specialist    **MT** = Mobile Transporter    **NASDA** = National Space Development Agency of Japan    **NET** = no earlier than    **OV** = Orbiter Vehicle    **PC** = Payload Commander    **Plt** = Pilot    **PS** = Payload Specialist    **RSA** = Russian Aviation and Space Agency    **TBD** = to be determined    **UF** = utility/utilization flight    **ULF** = utilization and logistics flight    **U/R** = under review