



## Remaining Space Shuttle Missions

**B**elow are the approved target dates for the launches remaining in the Space Shuttle Program.

### STS-129

**Launch Target:** Nov. 16, 2009,  
at 2:28 p.m. EST

**Shuttle:** Atlantis

**Duration:** 11 days

**Crew:**

Commander Charlie Hobaugh

Pilot Barry Wilmore

Mission Specialists Bobby Satcher, Mike Foreman, Randy Bresnik and Leland Melvin



**Mission:** Deliver EXPRESS Logistics Carriers 1 and 2

**Info:** The carriers hold two spare gyroscopes, two nitrogen tank assemblies, two pump modules, an ammonia tank assembly, a spare latching end effector for the station's robotic arm, a spare trailing umbilical system for the Mobile Transporter and a high-pressure gas tank. STS-129 is the 31st shuttle mission to the International Space Station. Astronaut Nicole Stott will return to Earth aboard Atlantis.

### STS-130

**Launch Target:** Feb. 4, 2010,  
at 5:52 a.m. EST

**Shuttle:** Endeavour

**Duration:** 12 days

**Crew:**

Commander George Zamka

Pilot Terry Virts

Mission Specialists Bob Behnken, Nicholas Patrick, Kathryn Hire and Steve Robinson



**Mission:** Deliver Node 3, named Tranquility, and the Cupola, a robotic control station with six windows around its sides and another in the center that provides a 360-degree view around the station. At least three spacewalks are planned.

**Info:** This will be the 32nd shuttle station assembly mission.

### STS-131

**Launch Target:** March 18, 2010,  
at 1:34 p.m. EDT

**Shuttle:** Discovery

**Duration:** 12 days

**Crew:**

Commander Alan Poindexter

Pilot Jim Dutton

Mission Specialists Rick Mastracchio, Clay Anderson, Dorothy Metcalf-Lindenburger, Stephanie Wilson and Naoko Yamazaki/Japan Aerospace and Exploration Agency



**Mission:** Deliver a Multi-Purpose Logistics Module filled with science racks to be transferred to laboratories on the International Space Station.

**Info:** Three spacewalks will include work to attach a spare ammonia tank assembly outside the station and return a European experiment from outside the Columbus module. This will be the 33rd shuttle mission to the station.

### STS-132

**Launch Target:** May 14, 2010,  
at 2:28 p.m. EDT

**Shuttle:** Atlantis

**Duration:** 11 days

**Crew:**

Commander Ken Ham

Pilot Tony Antonelli

Mission Specialists Stephen Bowen, Michael Good, Garrett Reisman and Piers Sellers



**Mission:** Deliver an Integrated Cargo Carrier and Russian-built Mini Research Module to the International Space Station.

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**Info:** The second in a series of new pressurized components for Russia, a Mini Research Module, will be permanently attached to the bottom port of the Zarya module. The Russian module also will carry U.S. pressurized cargo. Three spacewalks are planned to stage spare components outside the station, including six spare batteries, a boom assembly for the Ku-band antenna and spares for the Canadian Dextre robotic arm extension. A radiator, airlock and European robotic arm for the Russian Multi-purpose Laboratory Module also are payloads on the flight. This will be the 34th shuttle mission to the station.

## STS-134

**Launch Target:** July 29, 2010, at 7:51 a.m. EDT

**Shuttle:** Endeavour

**Duration:** 10 days

**Crew:**

Commander Mark Kelly  
Pilot Gregory H. Johnson  
Mission Specialists Michael Fincke, Greg Chamitoff,  
Andrew Feustel and European Space Agency astronaut  
Roberto Vittori



**Mission:** Deliver Express Logistics Carriers 3 and the Alpha Magnetic Spectrometer to the International Space Station.

**Info:** Spare parts including two S-band communications antennas, a high-pressure gas tank, additional spare parts for Dextre and micrometeoroid debris shields. This will be the 35th shuttle mission to the station.

*Mission insignia for missions STS-130 to STS-134 have not yet been released. They will be added as they become available.*

## STS-133

**Launch Target:** Sept. 16, 2010, at 11:57 a.m. EDT

**Shuttle:** Discovery

**Duration:** 12 days

**Crew:**

Commander Steven Lindsey  
Pilot Eric Boe  
Mission Specialists Alvin Drew, Michael Barratt, Tim Kopra and Nicole Stott

**Mission:** Deliver Express Logistics Carrier 4 and critical spare components to the International Space Station.

**Info:** This will be the 134th and final shuttle flight and the 36th shuttle mission to the station.



On Aug. 28, 2009, space shuttle Discovery hurtles toward space on the STS-128 mission, lifting off from NASA's Kennedy Space Center in Florida.

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