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Launch Schedule

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NASA's Shuttle and Rocket Launch Schedule

A variety of vehicles, launch sites on both U.S. coasts, shifting dates and times... the NASA Launch Schedule is easy to decipher by checking out our [Launch Schedule 101](#) that explains how it all works!

Updated -- Sept. 14, 2009 - 3:30p.m. EDT

Legend: + Targeted For | * No Earlier Than (Tentative) | ** To Be Determined

2009 Launches

Date: Sept. 19

Mission: STSS Demonstrators Program - Missile Defense Agency

Launch Vehicle: [United Launch Alliance Delta II](#)

Launch Site: [Cape Canaveral Air Force Station](#) - Launch Complex 17, Pad B

Launch Window: 8 - 9 a.m. EDT

Description: STSS Demonstrators Program is a midcourse tracking technology demonstrator and is part of an evolving ballistic missile defense system. STSS is capable of tracking objects after boost phase and provides trajectory information to other sensors and interceptors. To be launched by NASA for the Missile Defense Agency.

Date: Oct. 31 +

Mission: Ares I-X Flight Test

Launch Vehicle: [Ares I-X](#)

Launch Site: [Kennedy Space Center](#) - Launch Pad 39B

Description: The Ares I-X flight test is NASA's first test for the Agency's new Constellation launch vehicle -- Ares I. The Ares I-X flight will provide NASA with an early opportunity to test and prove flight characteristics, hardware, facilities and ground operations associated with the Ares I.

Date: Nov. 12 +

Mission: STS-129

Launch Vehicle: [Space Shuttle Atlantis](#)

Launch Site: [Kennedy Space Center](#) - Launch Pad 39A

Launch Time: 4:22 p.m. EST

Description: Space shuttle Atlantis will deliver components including two spare gyroscopes, two nitrogen tank assemblies, two pump modules, an ammonia tank assembly and a spare latching end effector for the station's robotic arm to the International Space Station.

Date: Dec. 7 *

Mission: [Wide-field Infrared Survey Explorer \(WISE\)](#)

Launch Vehicle: [Delta II 7320](#)

Launch Site: [Vandenberg Air Force Base](#) - SLC 2

Launch Time: 6:10 – 6:23 a.m. PST

Description: This mission will survey the entire sky in the mid-infrared with far greater sensitivity than any previous mission or program ever has. The WISE survey will consist of over a million images, from which hundreds of millions of astronomical objects will be cataloged.

2010 Launches

Date: Feb. 3

Mission: [Solar Dynamics Observatory \(SDO\)](#)

Launch Vehicle: [United Launch Alliance Atlas V](#)

Launch Site: [Cape Canaveral Air Force Station](#) - Launch Complex 41

Launch Time: 10:53 – 11:53 a.m. EST

Description: The first Space Weather Research Network mission in the Living With a Star (LWS) Program of NASA.

Date: Feb. 4 +

Mission: STS-130

Launch Vehicle: [Space Shuttle Endeavour](#)

Launch Site: [Kennedy Space Center](#) - Launch Pad 39A

Launch Time: 6:20 a.m. EST

Description: Space shuttle Endeavour will deliver the final connecting node, Node 3, 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 International Space Station.

Date: March 18 +

Mission: STS-131

Launch Vehicle: [Space Shuttle Discovery](#)

Launch Site: [Kennedy Space Center](#) - Launch Pad 39A

Launch Time: 1:08 p.m. EDT

Description: Space shuttle Discovery will carry a Multi-Purpose Logistics Module filled with science racks that will be transferred to laboratories of the International Space Station.

Date: April 1 *

Mission: [Glory](#)

Launch Vehicle: [Orbital Sciences Taurus Rocket](#)

Launch Site: [Vandenberg Air Force Base](#) - Launch Pad SLC 576-E

Description: The Glory Mission will help increase our understanding of the Earth's energy balance by collecting data on the properties of aerosols and black carbon in the Earth's atmosphere and how the Sun's irradiance affects the Earth's climate.

Date: May 14 +

Mission: STS-132

Launch Vehicle: [Space Shuttle Atlantis](#)

Launch Site: [Kennedy Space Center](#) - Launch Pad 39A

Launch Time: 3:05 p.m. EDT

Description: Space shuttle Atlantis mission will carry an integrated cargo carrier to deliver maintenance and assembly hardware, including spare parts for space station systems. In addition, 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.

Date: May 23

Mission: [Aquarius](#)

Launch Vehicle: [United Launch Alliance Delta II 7320](#)

Launch Site: [Vandenberg Air Force Base](#) - SLC 2

Description: The Aquarius mission will provide the first-ever global maps of salt concentrations in the ocean surface needed to understand heat transport and storage in the ocean.

Date: July 29 +

Mission: STS-133 or STS-134

Launch Vehicle: [Space Shuttle Endeavour](#)

Launch Site: [Kennedy Space Center](#) - Launch Pad 39A

Launch Time: 8:45 a.m. EDT

STS-133 Description: Space shuttle Endeavour will deliver the Express Logistics Carrier 4 (ELC4), a Multi-Purpose Logistics Module (MLPM) and critical spare components to the International Space Station.

STS-134 Description: Space shuttle Discovery will deliver an EXPRESS Logistics Carrier-3 (ELC-3) and an Alpha Magnetic Spectrometer (AMS) to the International Space Station.

Date: Sept. 16 +

Mission: STS-134 or STS-133

Launch Vehicle: [Space Shuttle Discovery](#)

Launch Site: [Kennedy Space Center](#) - Launch Pad 39A

Launch Time: 1 p.m. EDT

STS-134 Description: Space shuttle Discovery will deliver an EXPRESS Logistics Carrier-3 (ELC-3) and an Alpha Magnetic Spectrometer (AMS) to the International Space Station.

STS-133 Description: Space shuttle Endeavour will deliver the Express Logistics Carrier 4 (ELC4), a Multi-Purpose Logistics Module (MLPM) and critical spare components to the International Space Station.

2011 Launches

Date: October

Mission: [Mars Science Laboratory](#)

Launch Vehicle: [United Launch Alliance Atlas V](#)

Launch Site: [Cape Canaveral Air Force Station](#)

Description: The Mars Science Laboratory is a rover that will assess whether Mars ever was, or is still today, an environment able to support microbial life and to determine the planet's habitability.

For NASA's Space Shuttle Flights and International Space Station Assembly Sequence, visit:

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