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## SFN+ Hi-Def

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### Shuttle mission STS-125



Atlantis on the final mission to repair and upgrade the Hubble Space Telescope.

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### Shuttle mission STS-119



Take a loop around the International Space Station aboard the shuttle Discovery in stunning high definition.

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### Launch of Kepler



Kepler planet-finder begins its mission to discover Earth-like worlds orbiting other stars in the galaxy.

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### Shuttle mission STS-126



High definition from orbit! New clips from Endeavour's mission to the space station.

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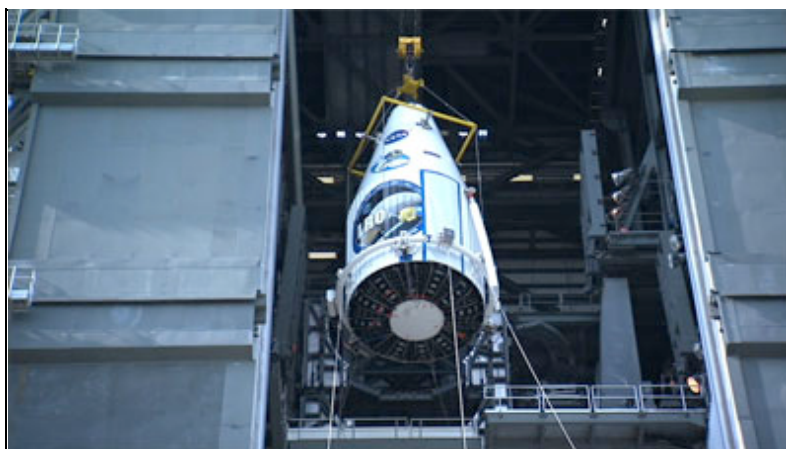
### From the vault



## SPACEFLIGHT NOW+HD

We pleased to offer the following high definition video clips of the **LRO and LCROSS missions** to our Spaceflight Now Plus subscribers. These video files are presented in 720p resolution. [Learn how](#) you can subscribe to Spaceflight Now Plus.

### Satellites atop the launcher



**Date:** May 28, 2009  
**Running Time:** 6 min 58 sec  
**File Size:** 255 MB

Lunar Reconnaissance Orbiter and LCROSS are delivered to the Vertical Integration Facility at Cape Canaveral's Complex 41 for mounting atop their Atlas 5 rocket for launch.

- [DOWNLOAD](#)

### Nose cone installation



### Free Preview!

Watch a free preview of our new high definition video clips from Discovery's mission to the International Space Station. Please check your computer meets our system requirements below. If you have any comments or suggestions about our video service please send us an [e-mail](#).

- [DOWNLOAD](#)

### Can I play this video?

High definition video requires more computing power than regular internet video. Please check that [QuickTime 7](#) is installed on your computer and your system meets the following requirements:

#### Windows

- 2.0 GHz Intel Pentium 4 or faster processor
- At least 512MB of RAM
- 64MB or greater video card
- Windows XP Service Pack 2 or Vista

#### Mac OS X

- 1.8 GHz PowerMac G5 or faster Macintosh computer; 1.83 GHz Intel Core Duo or faster
- At least 256 MB of RAM
- 64 MB or greater video card

The video will download as a zip file.

Note: These high definition movies will not play on an iPod or iPhone.

### Watch on your big screen TV

You can watch our high definition video movies on your big screen TV if you have a compatible set-top box such as an [AppleTV](#) or [Xbox 360](#). Let us know by [e-mail](#) if you've been able to play these videos using another type of device.



Historical footage from the early days of the space program.

■ [FULL INDEX](#)

#### Shuttle mission STS-124



High definition footage of Discovery's launch and landing on a mission to deliver Japan's science lab to the space station.

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#### The GLAST launch



The countdown and launch for NASA's GLAST gamma ray observatory.

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**Date:** May 15, 2009

**Running Time:** 7 min 46 sec

**File Size:** 284 MB

At the satellite processing facility, the two-piece nose cone of the Atlas 5 rocket encapsulates the Lunar Reconnaissance Orbiter and LCROSS spacecraft to shroud the payloads during launch.

■ [DOWNLOAD](#)

## Countdown rehearsal



**Date:** May 14-15, 2009

**Running Time:** 2 min 19 sec

**File Size:** 85 MB

The Atlas 5 rocket is rolled out to the launch pad from the Vertical Integration Facility for the countdown demonstration test in which the vehicle is loaded with propellants for a launch day rehearsal.

■ [DOWNLOAD](#)

## Centaur added atop first stage



**Date:** April 30, 2009

**Running Time:** 8 min 45 sec

**File Size:** 319 MB

The Centaur upper stage that will propel the Lunar Reconnaissance Orbiter to the Moon and be used in the impactor experiment for LCROSS is mounted atop the Atlas

5 rocket's first stage.

■ [DOWNLOAD](#)

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## Atlas first stage erected



**Date:** April 27, 2009

**Running Time:** 5 min 09 sec

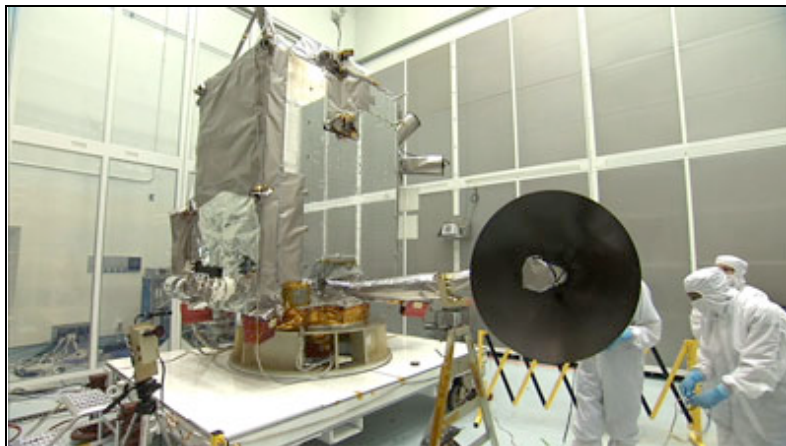
**File Size:** 188 MB

The Atlas 5 rocket's first stage is moved from the Atlas Spaceflight Operations Center to the Vertical Integration Facility where it is hoisted upright for stacking atop a mobile launch platform.

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## LRO's communications antenna



**Date:** April 15, 2009

**Running Time:** 5 min 55 sec

**File Size:** 216 MB

The high-gain antenna that will provide communications directly back to Earth is stowed aboard the Lunar Reconnaissance Orbiter during final launch preparations.

■ [DOWNLOAD](#)

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## First stage to ASOC



**Date:** March 3, 2009

**Running Time:** 5 min 53 sec

**File Size:** 215 MB

The first stage to launch the Lunar Reconnaissance Orbiter and LCROSS spacecraft to the Moon is trucked from the Cape Canaveral runway to the Atlas Spaceflight Operations Center checkout facility.

■ [DOWNLOAD](#)

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## Atlas 5's first stage



**Date:** March 3, 2009

**Running Time:** 5 min 45 sec

**File Size:** 210 MB

The Atlas 5 rocket's first stage, equipped with a kerosene-powered RD-180 main engine, is delivered by transport aircraft to the Cape Canaveral Air Force Station for NASA's lunar launch.

■ [DOWNLOAD](#)

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## Centaur unloaded from Antonov



**Date:** February 21, 2009

**Running Time:** 5 min 17 sec

**File Size:** 193.2 MB

The Centaur upper stage is unloaded from the Antonov aircraft at Cape Canaveral for transport to the Atlas 5 rocket hangar. After launching the LRO mission, the Centaur will impact the moon as part of the LCROSS experiment.

■ [DOWNLOAD](#)

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## Antonov delivers rocket stage



**Date:** February 20, 2009

**Running Time:** 4 min 59 sec

**File Size:** 181.9 MB

A Russian Antonov cargo aircraft lands at Cape Canaveral Air Force Station's Skid Strip carrying the Centaur upper stage that will launch the Lunar Reconnaissance Orbiter and LCROSS spacecraft.

■ [DOWNLOAD](#)

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## LCROSS in the cleanroom



**Date:** February 20, 2009

**Running Time:** 1 min 58 sec

**File Size:** 72.2 MB

Lunar Crater Observation and Sensing Satellite, or LCROSS, is revealed inside the Astrotech cleanroom as technicians remove the shipping container and protective coverings from the small craft on February 20.

■ [DOWNLOAD](#)

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## LCROSS trucked in



**Date:** February 19, 2009

**Running Time:** 4 min 12 sec

**File Size:** 154.2 MB

NASA's Lunar Crater Observation and Sensing Satellite, or LCROSS, that will launch along with the Lunar Reconnaissance Orbiter arrived at the Astrotech facility on February 19 to start its pre-launch campaign.

■ [DOWNLOAD](#)

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## LRO's solar panels checked out



**Date:** February 15, 2009

**Running Time:** 5 min 26 sec

**File Size:** 198.5 MB

Inside the Astrotech satellite processing facility, technicians conduct testing of the Lunar Reconnaissance Orbiter's power-generating solar panels as part of pre-launch checks.

■ [DOWNLOAD](#)

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## LRO arrives in Florida



**Date:** February 13, 2009

**Running Time:** 5 min 21 sec

**File Size:** 195.8 MB

NASA's Lunar Reconnaissance Orbiter arrived at Cape Canaveral on February 13. The spacecraft was trucked Florida to begin final preparations for launch aboard an Atlas 5 rocket.

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## Earlier Hi-Def Coverage

- [Shuttle mission STS-119](#)
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