here's some of the stories trending this week at NASA during a November 2nd media tent at NASA's Goddard Space Flight Center. Administrator Charlie Bolden was joined by Goddard center director Chris Scolese and senior project scientists Dr. John Mathers for an update on the James Webb Space Telescope including a rare glimpse at the telescope's primary mirror. Engineers and technicians recently completed a center of curvature test on the mirror which measures the shape of the mirror. This is the first important
optical measurement before the mirror

go into the testing chambers meanwhile

the telescope's sunshield leaders also

have been finished this will protect

Webb's sensitive instruments from the Sun when the telescope is in space the

Webb telescope which is targeted for launch in 2018 will study every phase in the history of our universe including the cosmos as first luminous glows the formation of planetary systems capable of supporting life and the evolution of our own solar system on October 30th.

Kazakhstan time the International Space
Station's expedition 49 crew including

NASA astronaut Cady Rubens returned to Earth the Soyuz spacecraft carrying

Rubens and her crewmates Anatoly Ivanishin of the Russian space agency

Roscosmos and Takuya Onishi of the Japan Aerospace Exploration Agency touched down safely in Kazakhstan during their 115 days in space the expedition 49 crew members contributed to hundreds of experiments in biology and Rubens became the first person to sequence DNA in space.
meanwhile pre-launch training continues

for expedition 50 51 the next crew

headed to the space station nasa's peggy

whitson oleg novitskiy of the russian

space agency Roscosmos and Tomatis k of

the european space agency participated

in traditional ceremonies in star city

russia november 1st with members of the

backup crew they later headed to the

Baikonur cosmodrome in Kazakhstan for

final preparations for the launch of

novitskiy Whitson

and piss gay on November 17th Eastern

Time for a five-month mission on the

space station also on November 1st NASA
held an agency innovation mission day to
highlight innovation by NASA employees
across the agency the event featured a
keynote speech by deputy administrator
David Newman from Kennedy Space Center
in Florida the endeavor also featured
online cost center collaboration
activities and other special events to
allow employees across the agency to
pitch innovative ideas aim day is a
project of the NASA first Leadership Program which is designed to develop
future agency leaders on October 30th
NASA's Solar Dynamics Observatory or SDO
experienced the partial solar eclipse in space when it caught the moon passing in front of the Sun the lunar transit lasted an hour with the moon covering about 59% of the Sun at the peak of its journey across the face of the Sun SDO captured these images in extreme ultraviolet light which is invisible to human eyes the imagery is colorized in red to make it visible NASA's magnetospheric multiscale mission or MMS now holds the Guinness world record for highest altitude fix of a GPS signal the missions for identical satellites set
the record while operating in a highly elliptical orbit 40 3,500 miles above Earth the team of satellites incorporates GPS measurements into their precise tracking systems which require extremely sensitive position and orbit calculations to guide a tightly flying formations earlier this year MMS achieved the closest flying separation of a multi spacecraft formation with only four and a half miles between the four satellites MMS is giving scientists new insight into a phenomenon known as magnetic
reconnection which occurs as the Sun and

Earth's magnetic fields interact

studying this process could help

scientists better understand other

naturally occurring phenomena around the

universe

and that's what's up this week @nasa for

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