



1

00:00:00,659 --> 00:00:04,950

"Here's some of the stories trending This Week at NASA!"

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00:00:04,950 --> 00:00:09,950

NASA Administrator Charlie Bolden, Senator Barbara Mikulski of Maryland and Goddard Center

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00:00:09,950 --> 00:00:15,410

Director Chris Scolese congratulated the Goddard team recently for progress in development

4

00:00:15,410 --> 00:00:17,810

of the James Webb Space Telescope.

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00:00:17,810 --> 00:00:22,689

The telescope's flight instruments and primary mirrors are being integrated at Goddard.

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00:00:22,689 --> 00:00:28,230

JWST is the agency's flagship science project and the most powerful space telescope ever

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00:00:28,230 --> 00:00:29,230

built.

8

00:00:29,230 --> 00:00:34,460

Scheduled to launch in 2018, it will study every phase in the history of our universe,

9

00:00:34,460 --> 00:00:39,489

including the first luminous glows after the big bang and the evolution of our own solar

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00:00:39,489 --> 00:00:41,950

system.

11

00:00:41,950 --> 00:00:46,379

Engineers recently took one of NASA's two

Crawler Transporters for a test spin around

12

00:00:46,379 --> 00:00:48,500

the block at Kennedy Space Center.

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00:00:48,500 --> 00:00:53,420

It was an opportunity to test modifications to the Crawlers to prepare them to carry the

14

00:00:53,420 --> 00:00:58,059

Space Launch System rocket to the launch pad -- with both being upgraded with the ability

15

00:00:58,059 --> 00:01:02,829

to carry 14.2 million pounds of heavy-lift hardware.

16

00:01:02,829 --> 00:01:08,640

A celebration at Marshall Space Flight Center for completion of the adapter that will connect

17

00:01:08,640 --> 00:01:14,670

the Orion spacecraft to a Delta IV rocket on Orion's first flight test to space, in

18

00:01:14,670 --> 00:01:15,670

September.

19

00:01:15,670 --> 00:01:19,830

In mid-March, the adapter will be shipped to the United Launch Alliance facility in

20

00:01:19,830 --> 00:01:24,540

Decatur, Alabama, where the Delta IV is being constructed -- and eventually on to Florida's

21

00:01:24,540 --> 00:01:27,600

Cape Canaveral ahead of Orion's mission.

22

00:01:27,600 --> 00:01:32,460

During that first mission, called Exploration Flight Test-1, the un-inhabited Orion will

23

00:01:32,460 --> 00:01:38,170

travel about 36-hundred miles above Earth and re-enter the atmosphere at about 20-thousand

24

00:01:38,170 --> 00:01:39,720

miles per hour.

25

00:01:39,720 --> 00:01:44,530

Data from the flight will help engineers prepare Orion for its first Space Launch System mission

26

00:01:44,530 --> 00:01:47,220

in 2017.

27

00:01:47,220 --> 00:01:55,390

A team of engineers conducted a hot-fire test of an AJ26 engine on the E-1 test stand at

28

00:01:55,390 --> 00:01:57,350

Stennis Space Center.

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00:01:57,350 --> 00:02:02,200

After post-test inspections and flight prep activities, the engine will ship to Wallops

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00:02:02,200 --> 00:02:04,250

Flight Facility.

31

00:02:04,250 --> 00:02:09,009

The AJ26 powers the first stage of Orbital's Sciences' Antares rocket -- which launches

32

00:02:09,009 --> 00:02:14,150

the company's Cygnus spacecraft from Wallops, on supply missions to the ISS.

33  
00:02:14,150 --> 00:02:20,280  
NASA, Orbital, Aerojet Rocketdyne and Lockheed  
Martin conducts testing of the first-stage

34  
00:02:20,280 --> 00:02:21,280  
engines.

35  
00:02:21,280 --> 00:02:27,810  
An ISS Progress 54 cargo craft launched from  
the Baikonur Cosmodrome in Kazakhstan on February

36  
00:02:27,810 --> 00:02:34,140  
5 -- and six hours later docked to the International  
Space Station with almost three tons of food,

37  
00:02:34,140 --> 00:02:38,170  
supplies and experiments for the station's  
Expedition 38 crew.

38  
00:02:38,170 --> 00:02:43,580  
Arrival of the new Progress followed the undocking  
from the ISS of the old Progress 52 cargo

39  
00:02:43,580 --> 00:02:46,530  
ship, just two days earlier.

40  
00:02:46,530 --> 00:02:51,390  
If you've got an idea for a new challenge  
for NASA's Centennial Challenges program you

41  
00:02:51,390 --> 00:02:54,280  
can submit it through March 2014.

42  
00:02:54,280 --> 00:02:59,250  
If your idea is selected you'll get the chance  
to help run the challenge.

43  
00:02:59,250 --> 00:03:03,740  
Centennial Challenges gives entrepreneurs

an opportunity to demonstrate new technology

44  
00:03:03,740 --> 00:03:07,530  
solutions that can benefit NASA and the nation.

45  
00:03:07,530 --> 00:03:10,720  
For more info go to [www.nasa.gov/challenges](http://www.nasa.gov/challenges).

46  
00:03:10,720 --> 00:03:14,840  
And that's what's up ... This Week at NASA.