



1

00:00:00,799 --> 00:00:04,980

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

2

00:00:04,980 --> 00:00:09,720

NASA Administrator Charlie Bolden visited Ames Research Center on March 17 to check

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00:00:09,720 --> 00:00:14,370

out aeronautics and space research facilities at the center -- including the laboratory

4

00:00:14,370 --> 00:00:18,580

for the volleyball-sized free-flying satellites called SPHERES.

5

00:00:18,580 --> 00:00:22,289

These are used on the International Space Station for experiments in space robotics

6

00:00:22,289 --> 00:00:24,609

and spacecraft navigation.

7

00:00:24,609 --> 00:00:29,880

He also saw the center's high-fidelity airport control tower simulator, dubbed Future Flight

8

00:00:29,880 --> 00:00:34,490

Central, where he was briefed on joint research underway with the Federal Aviation Administration

9

00:00:34,490 --> 00:00:40,420

and industry partners on next-generation air traffic management.

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00:00:40,420 --> 00:00:45,570

NASA Associate Administrator Robert Lightfoot spoke to the media on March 17 at Cape Canaveral

11

00:00:45,570 --> 00:00:50,789

Air Force Station's Space Launch Complex 37  
-- where two booster stages are being prepared

12

00:00:50,789 --> 00:00:55,660

to launch NASA's Orion spacecraft on its first  
trip into space, later this year.

13

00:00:55,660 --> 00:01:00,079

Three boosters in all will power the United  
Launch Alliance Delta IV rocket with Orion

14

00:01:00,079 --> 00:01:03,539

on top for its Exploration Flight Test-1.

15

00:01:03,539 --> 00:01:07,830

The two-orbits-around-the- Earth test will  
provide engineers with important data about

16

00:01:07,830 --> 00:01:12,860

Orion's heat shield and other elements to  
improve the spacecraft being designed to carry

17

00:01:12,860 --> 00:01:19,120

astronauts to an asteroid, Mars and other  
deep space destinations.

18

00:01:19,120 --> 00:01:23,230

Connor Johnson, the six-year-old from Denver,  
Colorado who started a White House petition

19

00:01:23,230 --> 00:01:28,380

drive to save NASA's funding, met with Kennedy  
Space Center Director and former astronaut

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00:01:28,380 --> 00:01:33,000

Bob Cabana at the KSC Visitor Complex on March  
15.

21

00:01:33,000 --> 00:01:37,160

Cabana presented him with an autographed picture and a bolt brought back from the International

22

00:01:37,160 --> 00:01:42,970

Space Station on his STS-88 shuttle mission, the first space station construction flight.

23

00:01:42,970 --> 00:01:47,040

Connor, who wants to become an astronaut, would be old enough to do just that right

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00:01:47,040 --> 00:01:52,880

around the time NASA plans to send humans to Mars in the 2030s.

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00:01:52,880 --> 00:01:58,990

At NASA headquarters, David W. Miller, began his tenure as the agency's new Chief Technologist.

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00:01:58,990 --> 00:02:03,150

The professor of aeronautics and astronautics at the Massachusetts Institute of Technology

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00:02:03,150 --> 00:02:09,030

will be Administrator Bolden's principal advisor on matters concerning agency-wide technology

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00:02:09,030 --> 00:02:11,170

policy and programs.

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00:02:11,170 --> 00:02:17,230

Miller has worked with several NASA projects, including SPHERES and the OSIRIS-REx asteroid

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00:02:17,230 --> 00:02:21,480

sample return mission planned for 2016.

31

00:02:21,480 --> 00:02:26,470

A new challenge focused on coastal flooding will be included in the third annual International

32  
00:02:26,470 --> 00:02:32,390  
Space Apps Challenge -- a "codeathon"-style event to be hosted April 12 and 13 by NASA

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00:02:32,390 --> 00:02:35,000  
and other space agencies around the world.

34  
00:02:35,000 --> 00:02:40,450  
Announced by NASA Chief Scientist Ellen Stofan at the March 19 Climate Data Initiative launch

35  
00:02:40,450 --> 00:02:45,430  
at the White House, The Coastal Inundation in Your Community challenge is one of four

36  
00:02:45,430 --> 00:02:51,130  
climate-related challenges using data provided by NASA, the National Oceanic and Atmospheric

37  
00:02:51,130 --> 00:02:54,950  
Administration and the Environmental Protection Agency.

38  
00:02:54,950 --> 00:03:01,000  
The challenge encourages entrepreneurs, technologists, and developers to create and deploy data-driven

39  
00:03:01,000 --> 00:03:06,480  
visualizations and simulations to help people understand their exposure to coastal-flooding

40  
00:03:06,480 --> 00:03:08,990  
hazards.

41  
00:03:08,990 --> 00:03:13,270  
The next two crews bound for the International Space Station continued preparing for their

42

00:03:13,270 --> 00:03:14,270

missions.

43

00:03:14,270 --> 00:03:19,310

At the Baikonur Cosmodrome in Kazakhstan,  
Expedition 39/40 Flight Engineer Steve Swanson

44

00:03:19,310 --> 00:03:25,300

of NASA and Russian cosmonauts Alexander Skvortsov  
and Oleg Artemyev conducted a fit check in

45

00:03:25,300 --> 00:03:28,060

their Soyuz spacecraft -- they launch in late  
March.

46

00:03:28,060 --> 00:03:33,630

Meanwhile, a news conference was held at Johnson  
Space Center with NASA astronaut Reid Wiseman,

47

00:03:33,630 --> 00:03:39,220

Russian cosmonaut Maxim Suraev and European  
Space Agency astronaut Alexander Gerst -- the

48

00:03:39,220 --> 00:03:43,990

crew of Expedition 40/41 -- scheduled to launch  
in late May.

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00:03:43,990 --> 00:03:48,160

And the current crew onboard the orbiting  
laboratory helped bring space a little closer

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00:03:48,160 --> 00:03:53,709

to viewers of National Geographic's two-hour  
Live From Space program The show featured

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00:03:53,709 --> 00:03:58,599

details about the science and the mission  
of the ISS.

52

00:03:58,599 --> 00:04:04,819

To celebrate the 24th anniversary of the April 24, 1990 launch of NASA's Hubble Space Telescope,

53  
00:04:04,819 --> 00:04:10,209  
astronomers have released an infrared image of an active region of star birth, located

54  
00:04:10,209 --> 00:04:14,720  
64-hundred light years away in a small portion of the Monkey Head Nebula.

55  
00:04:14,720 --> 00:04:20,120  
The mosaic reveals dense knots of gas and dust silhouetted against glowing gas.

56  
00:04:20,120 --> 00:04:25,639  
Hubble is a joint project between NASA and the European Space Agency.

57  
00:04:25,639 --> 00:04:31,289  
Using cameras aboard NASA's Lunar Reconnaissance Orbiter, or LRO, scientists have created the

58  
00:04:31,289 --> 00:04:36,039  
largest high resolution mosaic of our moon's north polar region.

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00:04:36,039 --> 00:04:41,030  
Constructed from 10-thousand-581 pictures, there's enough detail in the mosaic to see

60  
00:04:41,030 --> 00:04:44,560  
textures and subtle shading of the lunar terrain.

61  
00:04:44,560 --> 00:04:49,139  
The entire image measures nearly 867-billion pixels total.

62  
00:04:49,139 --> 00:04:50,729  
And that's what's up ... This Week at NASA.

