



1  
00:00:00,760 --> 00:00:04,920

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

2  
00:00:04,920 --> 00:00:10,040

The week began with celebration of the 44th Earth Day -- including live and online activities

3  
00:00:10,040 --> 00:00:12,590

around the agency and around the globe.

4  
00:00:12,590 --> 00:00:17,789

An event at Washington's Union Station featured Hyperwall and Science Gallery exhibits highlighting

5  
00:00:17,789 --> 00:00:20,039

the agency's Earth science work.

6  
00:00:20,039 --> 00:00:24,440

Administrator Charlie Bolden and others also gave public presentations to illustrate the

7  
00:00:24,440 --> 00:00:28,869

work NASA is doing to understand and protect our home planet.

8  
00:00:28,869 --> 00:00:34,050

Online, people around the world were encouraged to post a photo of themselves with their local

9  
00:00:34,050 --> 00:00:40,129

environment as a backdrop -- as part of NASA's global "selfie" to promote environmental awareness.

10  
00:00:40,129 --> 00:00:45,220

2014 is the first year in more than a decade that NASA is launching five Earth Science

11  
00:00:45,220 --> 00:00:46,899

missions into space.

12  
00:00:46,899 --> 00:00:51,160  
Those missions will address critical environment  
and climate related challenges facing our

13  
00:00:51,160 --> 00:00:53,489  
planet.

14  
00:00:53,489 --> 00:00:57,730  
On Tuesday, at George Washington University  
in Washington, Administrator Bolden outlined

15  
00:00:57,730 --> 00:01:03,699  
NASA's human exploration path to Mars in his  
keynote speech at the Humans to Mars Summit

16  
00:01:03,699 --> 00:01:05,400  
2014.

17  
00:01:05,400 --> 00:01:09,920  
Over the course of the three-day event, Bolden  
and about two dozen other NASA officials and

18  
00:01:09,920 --> 00:01:16,110  
scientists spoke to an estimated fifteen hundred  
conference attendees -- and others participating

19  
00:01:16,110 --> 00:01:18,410  
online.

20  
00:01:18,410 --> 00:01:22,510  
International Space Station, Expedition 39  
Flight Engineers Rick Mastracchio and Steve

21  
00:01:22,510 --> 00:01:27,700  
Swanson successfully conducted a spacewalk  
on Wednesday to replace a backup computer

22

00:01:27,700 --> 00:01:30,920  
relay box on the station's S-zero truss.

23  
00:01:30,920 --> 00:01:36,570  
The relay box, which failed April 11, is called  
a multiplexer-demultiplexer, and helps provide

24  
00:01:36,570 --> 00:01:42,750  
data and telemetry needed to command the station's  
truss systems and associated hardware.

25  
00:01:42,750 --> 00:01:48,310  
Meanwhile, on Friday an un-piloted Russian  
Progress cargo ship re-docked to the station's

26  
00:01:48,310 --> 00:01:54,060  
Zvezda Service Module after completing a two-day  
test of an upgrade to the automated rendezvous

27  
00:01:54,060 --> 00:01:55,870  
system on the Progress.

28  
00:01:55,870 --> 00:02:00,240  
The rendezvous hardware will be incorporated  
into Progress cargo craft currently under

29  
00:02:00,240 --> 00:02:02,350  
development.

30  
00:02:02,350 --> 00:02:06,950  
The three-day USA Science and Engineering  
Festival, at The Walter E. Washington Convention

31  
00:02:06,950 --> 00:02:13,870  
Center in DC featured hands-on activities  
and presentations by NASA scientists and engineers.

32  
00:02:13,870 --> 00:02:19,810  
On Friday, Administrator Bolden joined Lockheed  
Martin President and CEO Marillyn Hewson,

33  
00:02:19,810 --> 00:02:25,840  
NASA astronaut Rex Walheim, and members of  
NASA's Orion Program to announce Team ARES

34  
00:02:25,840 --> 00:02:30,370  
from the Governor's School for Science and  
Technology in Hampton, Virginia as the winning

35  
00:02:30,370 --> 00:02:33,840  
high school team in the Exploration Design  
Challenge.

36  
00:02:33,840 --> 00:02:38,590  
Team ARES will have their radiation shield  
design flown on the Orion spacecraft's first

37  
00:02:38,590 --> 00:02:42,970  
flight test, which is targeted for December.

38  
00:02:42,970 --> 00:02:47,629  
Live NASA Television coverage of the 2014  
FIRST Robotics Competition Championship got

39  
00:02:47,629 --> 00:02:49,409  
underway on Thursday.

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00:02:49,409 --> 00:02:54,900  
Held at the Edward Jones Dome in St. Louis,  
it is the culminating event of the 2014 season,

41  
00:02:54,900 --> 00:02:57,090  
which kicked off in January.

42  
00:02:57,090 --> 00:03:02,060  
FIRST promotes student science, technology,  
engineering, math and problem solving skills.

43  
00:03:02,060 --> 00:03:07,859

The NASA Robotics Alliance Project has supported FIRST Robotics by providing grants to high

44  
00:03:07,859 --> 00:03:13,209  
school teams as well as sponsoring regional competitions.

45  
00:03:13,209 --> 00:03:18,070  
The Smithsonian National Air and Space Museum opened a new exhibit to celebrate the 24th

46  
00:03:18,070 --> 00:03:22,980  
anniversary of the April 24, 1990 launch of NASA's Hubble Space Telescope.

47  
00:03:22,980 --> 00:03:28,049  
The "Repairing Hubble" exhibit features two Hubble instruments that played crucial roles

48  
00:03:28,049 --> 00:03:30,180  
in the telescope's success over the years.

49  
00:03:30,180 --> 00:03:35,889  
The Corrective Optics Space Telescope Axial Replacement or COSTAR instrument, installed

50  
00:03:35,889 --> 00:03:41,329  
in 1993, fixed a major flaw in Hubble's primary mirror -- and the Wide Field and Planetary

51  
00:03:41,329 --> 00:03:47,980  
Camera 2, or "Wiff-Pick 2", recorded razor-sharp images of faraway objects for more than 16

52  
00:03:47,980 --> 00:03:48,980  
years.

53  
00:03:48,980 --> 00:03:53,049  
Both instruments were brought back to Earth on Hubble's last space shuttle servicing mission

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00:03:53,049 --> 00:03:55,279  
in 2009.

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00:03:55,279 --> 00:04:00,230  
The Monday ribbon-cutting ceremony at Stennis  
Space Center's E-2 test stand marked the beginning

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00:04:00,230 --> 00:04:04,000  
of a new partnership between NASA and SpaceX.

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00:04:04,000 --> 00:04:09,109  
The U.S. aerospace company will test components  
of its methane-fueled Raptor rocket engine

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00:04:09,109 --> 00:04:10,489  
at the facility.

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00:04:10,489 --> 00:04:15,059  
Mississippi Governor Phil Bryant, Senator  
Thad Cochran and Congressman Steven Palazzo

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00:04:15,059 --> 00:04:17,070  
participated in the event.

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00:04:17,070 --> 00:04:22,160  
The partnership will use NASA's advanced test  
facilities to help keep America's commercial

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00:04:22,160 --> 00:04:24,620  
space program moving forward.

63

00:04:24,620 --> 00:04:26,260  
And that's what's up this week @NASA ...