



ULA
UNION LAUNCH ALLIANCE

ORION GO FOR LAUNCH



EFT-1 Starboard CBC

1
00:00:07,140 --> 00:00:11,430
This Week at NASA...

2
00:00:11,430 --> 00:00:16,520
During a test of NASA's Human Exploration
Telerobotics Project, astronaut Luca Parmitano,

3
00:00:16,520 --> 00:00:21,310
aboard the International Space Station remotely
controlled a robotic planetary rover, called

4
00:00:21,310 --> 00:00:27,089
K-10 across the terrain at Ames Research Center's
Roverscape. The project is a demonstration

5
00:00:27,089 --> 00:00:33,739
of how astronauts in space can control robots
on the ground for future exploration missions.

6
00:00:33,739 --> 00:00:40,000
To celebrate the public's first "heads up"
that Earth would be photographed from deep

7
00:00:40,000 --> 00:00:45,590
space, people came to NASA's Jet Propulsion
Laboratory and other places to wave at Saturn

8
00:00:45,590 --> 00:00:50,850
and the Cassini spacecraft as it snapped the
pictures. Even Administrator Charlie Bolden

9
00:00:50,850 --> 00:00:56,580
and Deputy Administrator Lori Garver got in
on the fun. Earth is just a tiny dot in the

10
00:00:56,580 --> 00:01:00,180
picture -- but ...Smile, you're on Cassini
camera!

11

00:01:00,180 --> 00:01:05,770

NASA's MESSENGER spacecraft studying Mercury also got in on the Earth image action by taking

12

00:01:05,770 --> 00:01:10,000

pictures of our home planet around the same time as Cassini.

13

00:01:10,000 --> 00:01:15,330

Images from two NASA spacecraft showing Earth and our moon as bright beacons from millions

14

00:01:15,330 --> 00:01:19,270

of miles away in space.

15

00:01:19,270 --> 00:01:24,560

Speaking of cool pictures from space ... this shot of NASA's Curiosity rover shows the tracks

16

00:01:24,560 --> 00:01:29,790

it's made on Mars since arriving there last August. The image was taken by NASA's Mars

17

00:01:29,790 --> 00:01:34,620

Reconnaissance Orbiter from high above the Martian surface in late June. At that time,

18

00:01:34,620 --> 00:01:41,899

Curiosity had driven about a quarter mile straight-line distance from its landing site.

19

00:01:41,899 --> 00:01:48,180

The door on the Interface Region Imaging Spectrograph or IRIS is open and part of the 60-day check

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00:01:48,180 --> 00:01:53,090

out for NASA's latest "eye on the Sun" calls for it to grab a few test pictures -- which

21

00:01:53,090 --> 00:01:58,670

it did. These can help the IRIS team fine tune the telescope, if needed. IRIS scopes

22
00:01:58,670 --> 00:02:03,230
out material that moves through a mysterious portion of the Sun's atmosphere. The mission's

23
00:02:03,230 --> 00:02:08,680
normal science is scheduled to begin by Aug. 26.

24
00:02:08,680 --> 00:02:13,760
If the solar system was Hollywood, the Sun would have yet another reason for being its

25
00:02:13,760 --> 00:02:21,620
brightest star! Our sun was recently featured in the one-millionth movie produced at Helioviewer.org.

26
00:02:21,620 --> 00:02:26,830
The solar imagery browsing site started by NASA scientists and the European Space Agency

27
00:02:26,830 --> 00:02:32,900
in 2009 lets visitors make custom videos of the sun to share on YouTube and help with

28
00:02:32,900 --> 00:02:37,140
solar research.

29
00:02:37,140 --> 00:02:41,900
NASA Administrator Charlie Bolden joined members of Congress and others at "NASA Tech Day on

30
00:02:41,900 --> 00:02:47,230
the Hill" in Washington. The interactive event gave visitors a peek at NASA space technologies

31
00:02:47,230 --> 00:02:52,879
that stimulate the economy and keep American

competitive.

32

00:02:52,879 --> 00:02:57,620

An adapter ring and a Delta IV test article came together perfectly during a fit check

33

00:02:57,620 --> 00:03:02,519

at Marshall Space Flight Center. The two pieces are critical elements of Exploration Flight

34

00:03:02,519 --> 00:03:08,799

Test-1 -- set for 2014. On that demo flight the adapter will connect the Orion spacecraft

35

00:03:08,799 --> 00:03:12,780

to a Delta IV rocket.

36

00:03:12,780 --> 00:03:17,860

The latest test of Orion's parachutes -- seen live during a Google+ hangout. Dropped out

37

00:03:17,860 --> 00:03:23,069

of an airplane at 35-thousand feet, the highest altitude yet AND with one of its chutes cut

38

00:03:23,069 --> 00:03:28,860

away on purpose Not a problem -- Orion's other two chutes brought it down nice and

39

00:03:28,860 --> 00:03:34,800

easy. On return trips from future deep space missions, Orion will be going as fast as 20-thousand

40

00:03:34,800 --> 00:03:38,950

miles per hour.

41

00:03:38,950 --> 00:03:44,080

Astronauts fully "geared up" in iconic orange NASA flight suits checked out the amount of

42
00:03:44,080 --> 00:03:50,360
elbow room inside Boeing's CST-100 spacecraft
recently, while Boeing engineers monitored

43
00:03:50,360 --> 00:03:53,950
communications, equipment and ergonomics.
"Yeah, it feels good in there. The fact that

44
00:03:53,950 --> 00:03:59,709
it is an American vehicle. It will be launching
from American soil. That is what I like about

45
00:03:59,709 --> 00:04:02,180
it."
Boeing is one of three American companies

46
00:04:02,180 --> 00:04:08,230
working with NASA's Commercial Crew Program
to develop safe and affordable crew transportation

47
00:04:08,230 --> 00:04:14,030
systems.
At the NewSpace 2013 conference in San Jose,

48
00:04:14,030 --> 00:04:17,769
California Deputy Administrator Lori Garver
talked about the Commercial Space industry

49
00:04:17,769 --> 00:04:19,880
and its importance to the future of exploration.

50
00:04:19,880 --> 00:04:26,820
"We are leading the world in space, if you
look, by almost any measure we are the envy

51
00:04:26,820 --> 00:04:27,820
of the world."

52
00:04:27,820 --> 00:04:34,240

The annual conference is one of the most important in the nation for the commercial space industry.

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00:04:34,240 --> 00:04:39,830

NASA's Stratospheric Observatory for Infrared Astronomy, or SOFIA aircraft has begun its

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00:04:39,830 --> 00:04:45,430

first Southern Hemisphere deployment to study celestial objects that are difficult or impossible

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00:04:45,430 --> 00:04:51,040

to see in the northern sky. The flying observatory is flying astronomy missions from Christchurch,

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00:04:51,040 --> 00:04:55,970

New Zealand, during its 2 ½-week deployment

57

00:04:55,970 --> 00:05:01,970

The NASA Evolutionary Xenon Thruster or NEXT is an advanced Ion propulsion system developed

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00:05:01,970 --> 00:05:07,330

at Glenn Research Center. Its unmatched fuel efficiency could give a real boost to future

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00:05:07,330 --> 00:05:12,390

deep space exploration missions -- extending the reach of NASA science missions and yielding

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00:05:12,390 --> 00:05:17,700

a higher return on scientific research.

61

00:05:17,700 --> 00:05:21,850

Astronaut Serena Aunon talked with students about the future of human space flight and

62

00:05:21,850 --> 00:05:26,410

the need for skills in Science, Technology,

Engineering and Math, at the Virginia Latino

63

00:05:26,410 --> 00:05:32,670

Higher Education Network's 2013 Hispanic College Institute. The four-day, pre-college workshop

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00:05:32,670 --> 00:05:37,900

was part of NASA's Summer of Innovation program to promote STEM education.

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00:05:37,900 --> 00:05:45,310

NASA, Sally Ride Science and Google in Education teamed up for an online Google+ hangout to

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00:05:45,310 --> 00:05:51,270

celebrate the late Sally Ride. The hangout, also carried on NASA TV, featured Deputy Administrator

67

00:05:51,270 --> 00:05:56,410

Lori Garver -- she joined other participants in praising Ride's impact as a role model

68

00:05:56,410 --> 00:05:59,480

and her influence on STEM mentorship for women worldwide.

69

00:05:59,480 --> 00:06:07,280

"I got to know her, served with her in really advancing the space program."

70

00:06:07,280 --> 00:06:13,420

Plenty of NASA exhibits in the house for SpaceFest 2013 at New York's Intrepid Sea, Air and Space

71

00:06:13,420 --> 00:06:20,160

Museum. The four day event promotes space, STEM education and innovation. The newly reopened

72

00:06:20,160 --> 00:06:26,090

Space Shuttle Pavilion, with shuttle Enterprise

was also a featured attraction.

73

00:06:26,090 --> 00:06:27,650

And that's This Week @NASA.