



1
00:00:01,110 --> 00:00:05,270

“Here’s some of the stories trending This Week at NASA!”

2
00:00:05,270 --> 00:00:10,219

Several Mars-based NASA spacecraft had prime viewing positions for comet Siding Spring’s

3
00:00:10,219 --> 00:00:14,009

October 19 close flyby of the Red Planet.

4
00:00:14,009 --> 00:00:18,430

Early images include this composite photo from NASA’s Hubble Space Telescope – it

5
00:00:18,430 --> 00:00:24,310

combines shots of Mars, the comet, and a star background to illustrate Siding Spring’s

6
00:00:24,310 --> 00:00:29,470

distance from Mars at closest approach, and these images from the Mars Reconnaissance

7
00:00:29,470 --> 00:00:35,770

Orbiter’s HiRISE camera represent the highest-resolution views ever acquired of a comet that came from

8
00:00:35,770 --> 00:00:39,450

the Oort Cloud, at the outer fringe of the solar system.

9
00:00:39,450 --> 00:00:45,050

The comet flyby – only about 87,000 miles from Mars – was much closer than any other

10
00:00:45,050 --> 00:00:48,739

known comet flyby of a planet.

11
00:00:48,739 --> 00:00:54,030

On October 23, the fourth and final eclipse of the year – a partial solar eclipse, was

12

00:00:54,030 --> 00:00:56,989

widely visible in the U.S. and Canada.

13

00:00:56,989 --> 00:01:03,060

The first eclipse of 2015 is scheduled to be a total solar eclipse on March 20, mostly

14

00:01:03,060 --> 00:01:09,260

visible in Iceland, Europe and in the northern regions of Africa and Asia.

15

00:01:09,260 --> 00:01:14,810

Outside the International Space Station, Expedition 41 Commander Max Suraev and Flight Engineer

16

00:01:14,810 --> 00:01:21,000

Alexander Samokutyaev of the Russian Federal Space Agency conducted an October 22 spacewalk,

17

00:01:21,000 --> 00:01:26,409

to remove experiment hardware on the Russian segment of the complex that is no longer needed.

18

00:01:26,409 --> 00:01:32,070

The pair also performed a detailed photographic survey of the exterior of the Russian modules.

19

00:01:32,070 --> 00:01:38,450

The space station crew also spent time during the week preparing for the October 25 unberthing

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00:01:38,450 --> 00:01:42,160

and release of the SpaceX Dragon cargo craft.

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00:01:42,160 --> 00:01:47,270

Loaded with more than 3,200 pounds of hardware and critical science experiments, Dragon is

22
00:01:47,270 --> 00:01:54,420
scheduled to splashdown in the Pacific Ocean,
west of Baja California later the same day.

23
00:01:54,420 --> 00:01:59,829
The launch of Orbital Sciences' Cygnus cargo
craft on its Orbital-3 mission to the ISS

24
00:01:59,829 --> 00:02:05,170
is scheduled for no earlier than October 27
from NASA's Wallops Flight Facility.

25
00:02:05,170 --> 00:02:09,560
Cygnus is loaded with two and a half tons
of supplies and experiments for the station's

26
00:02:09,560 --> 00:02:12,489
Expedition 41 crew[1].

27
00:02:12,489 --> 00:02:17,410
The first ring and barrel segments of NASA's
Space Launch System rocket's core stage

28
00:02:17,410 --> 00:02:22,680
were recently loaded onto the Vertical Assembly
Center tool at NASA's Michoud Assembly Facility.

29
00:02:22,680 --> 00:02:27,739
The VAC is designed to weld together the various
segments of the core stage.

30
00:02:27,739 --> 00:02:32,370
These are the first confidence welds made
by the VAC, which ensures that it works as

31
00:02:32,370 --> 00:02:37,560
expected before welding actual flight hardware
for the agency's new deep space exploration

32

00:02:37,560 --> 00:02:38,849

rocket.

33

00:02:38,849 --> 00:02:44,030

NASA's newest astronaut candidates recently visited Glenn Research Center, where they

34

00:02:44,030 --> 00:02:46,069

toured several facilities.

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00:02:46,069 --> 00:02:50,630

The group will receive a wide array of technical training at Glenn and other space centers

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00:02:50,630 --> 00:02:57,410

around the globe to prepare for missions to low-Earth orbit, an asteroid and Mars.

37

00:02:57,410 --> 00:03:01,370

The recent Open House event at Ames Research Center was part of the center's 75th anniversary

38

00:03:01,370 --> 00:03:02,370

celebrations.

39

00:03:02,370 --> 00:03:08,680

More than 100 thousand people registered for the event, designed to highlight the world-class

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00:03:08,680 --> 00:03:13,400

space and aeronautics research facilities housed at Ames.

41

00:03:13,400 --> 00:03:15,230

And that's what's up this week @NASA ...