
ARMY

1
00:00:00,669 --> 00:00:05,580
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:05,580 --> 00:00:09,210
Activities aboard the International Space
Station during the first week in June included

3
00:00:09,210 --> 00:00:13,610
continued operations with the Bigelow Expandable
Activity Module (BEAM) – which was fully

4
00:00:13,610 --> 00:00:14,760
expanded on May 28.

5
00:00:14,760 --> 00:00:20,890
The follow-up work included equalizing BEAM’s
internal pressure and conducting leak checks

6
00:00:20,890 --> 00:00:23,350
to ensure its structural integrity.

7
00:00:23,350 --> 00:00:28,060
The BEAM is a technology demonstration to
study expandable habitats in space.

8
00:00:28,060 --> 00:00:32,930
When it is safe to do so, NASA’s Jeff Williams
will open the hatch and be the first to enter

9
00:00:32,930 --> 00:00:35,530
the inflatable experimental habitat.

10
00:00:35,530 --> 00:00:42,199
At more than 13 feet long and about 10.5 feet
in diameter, the module adds about 565 cubic

11
00:00:42,199 --> 00:00:45,359
feet of habitable volume to the station.

12
00:00:45,359 --> 00:00:51,649
Meanwhile, the station crew talked with Facebook
founder and CEO Mark Zuckerberg on June 1,

13
00:00:51,649 --> 00:00:56,859
during an Earth-to-space Facebook Live video
call, seen on NASA’s Facebook page.

14
00:00:56,859 --> 00:01:00,629
NASA astronauts Tim Kopra and Jeff Williams,
and ESA’s (European Space Agency’s) Tim

15
00:01:00,629 --> 00:01:05,960
Peake, answered questions from Zuckerberg
submitted by social media followers on NASA’s

16
00:01:05,960 --> 00:01:08,079
Facebook page.

17
00:01:08,079 --> 00:01:14,539
On May 31, at NASA's Wallops Flight Facility
in Virginia, the upgraded dual RD-181 engines

18
00:01:14,539 --> 00:01:20,890
of an Orbital ATK Antares rocket were fired
at 100 percent power for 30 seconds as the

19
00:01:20,890 --> 00:01:25,170
rocket sat at the Mid-Atlantic Regional Spaceport's
Pad-0A.

20
00:01:25,170 --> 00:01:31,500
The so-called hot fire test is a key milestone
for Antares and Pad-0A – to demonstrate

21
00:01:31,500 --> 00:01:36,100
the first stage of the rocket and the launch
pad are ready for upcoming flights.

22
00:01:36,100 --> 00:01:41,740
Antares and Pad-0A have not been used for
a launch since a 2014 mishap.

23
00:01:41,740 --> 00:01:47,090
Orbital ATK anticipates using Antares to launch
a Cygnus cargo spacecraft to the International

24
00:01:47,090 --> 00:01:50,600
Space Station this summer.

25
00:01:50,600 --> 00:01:56,770
Also on May 31, in Star City, Russia, NASA's
Kate Rubins and Expedition 48-49 crewmates,

26
00:01:56,770 --> 00:02:02,479
Anatoly Ivanishin of Roscosmos and Takuya
Onishi of the Japan Aerospace Exploration

27
00:02:02,479 --> 00:02:07,979
Agency, participated in traditional ceremonial
activities at the Gagarin Cosmonaut Training

28
00:02:07,979 --> 00:02:09,000
Center.

29
00:02:09,000 --> 00:02:14,700
The trio is scheduled to launch June 24 from
the Baikonur Cosmodrome in Kazakhstan for

30
00:02:14,700 --> 00:02:17,510
a four-month mission on the Station.

31
00:02:17,510 --> 00:02:22,819
NASA's Armstrong Fight Research Center,
in Edwards, California hosted a "before

32
00:02:22,819 --> 00:02:28,569
and after" demonstration, with F-18 aircraft,

to compare the loud sonic booms we are familiar

33
00:02:28,569 --> 00:02:29,569
with …

34
00:02:29,569 --> 00:02:34,319
To a quieter, more community-friendly sonic
“thump” …

35
00:02:34,319 --> 00:02:38,909
NASA is working to make supersonic flight
sound more like, with experimental aircraft

36
00:02:38,909 --> 00:02:43,120
developed through the agency’s Quiet Supersonic
Technology (QueSST).

37
00:02:43,120 --> 00:02:47,590
Following the supersonic portion of the event,
there were also discussions on efforts to

38
00:02:47,590 --> 00:02:52,860
safely integrate Unmanned Aircraft Systems,
commonly called drones, into the National

39
00:02:52,860 --> 00:02:55,019
Airspace System (UAS-NAS).

40
00:02:55,019 --> 00:03:00,680
NASA’s Jet Propulsion Laboratory in Pasadena,
California invited members of the media to

41
00:03:00,680 --> 00:03:06,939
experience “Mixed Reality” – an environment
created by using new JPL software combined

42
00:03:06,939 --> 00:03:09,390
with a mixed-reality headset.

43

00:03:09,390 --> 00:03:14,400
Mixed Reality enables virtual elements to
be merged with a user's actual physical space

44
00:03:14,400 --> 00:03:19,670
-- creating a world in which real and virtual
objects can interact.

45
00:03:19,670 --> 00:03:24,760
This technology can be used to study Mars
from the comfort of Earth or examine the inner

46
00:03:24,760 --> 00:03:29,640
workings of a spacecraft that hasn't even
been built yet.

47
00:03:29,640 --> 00:03:34,110
Ten new U.S. Postal Service “Forever”
stamps feature some of the most iconic NASA

48
00:03:34,110 --> 00:03:36,290
images in our solar system.

49
00:03:36,290 --> 00:03:42,469
The new issue stamps, unveiled on May 31 at
World Stamp Show-NY 2016, in New York, include

50
00:03:42,469 --> 00:03:47,290
the well-known “Blue Marble” image of
Earth, as part of the “Views of Our Planets”

51
00:03:47,290 --> 00:03:48,290
collection.

52
00:03:48,290 --> 00:03:53,819
Meanwhile, images of NASA’s New Horizons
spacecraft and the dwarf planet Pluto adorn

53
00:03:53,819 --> 00:03:58,700
the faces of the two “Pluto Explored”

Forever stamps, commemorating the July 2015

54
00:03:58,700 --> 00:04:03,250
flyby of Pluto by New Horizons.

55
00:04:03,250 --> 00:04:05,239
And that’s what’s up this week @NASA …