1
00:00:01,079 --> 00:00:04,670
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:04,670 --> 00:00:09,660
Sept. 15 marked the halfway point in the yearlong
mission on the International Space Station

3
00:00:09,660 --> 00:00:14,050
with NASA astronaut Scott Kelly and Russian
cosmonaut Mikhail Kornienko.

4
00:00:14,050 --> 00:00:19,250
An event the day before at the National Press
Club in Washington included a discussion about

5
00:00:19,250 --> 00:00:24,289
the biomedical research conducted on the station,
to help formulate future human missions to

6
00:00:24,289 --> 00:00:25,289
Mars.

7
00:00:25,289 --> 00:00:27,580
Kelly participated from the space station.

8
00:00:27,580 --> 00:00:32,800
His identical twin, retired NASA astronaut
Mark Kelly, and NASA astronaut Terry Virts,

9
00:00:32,800 --> 00:00:39,180
who served as commander of Expedition 43,
participated from the press club.

10
00:00:39,180 --> 00:00:42,790
And as part of the activities celebrating
the halfway point of the One-Year mission,

11
00:00:42,790 --> 00:00:48,900

NASA teamed with the community observatory organization, Slooh on Sept. 16 to broadcast

12
00:00:48,900 --> 00:00:53,800
live views of the space station on NASA TV and the agency's website as the station

13
00:00:53,800 --> 00:00:57,180
passed over Slooh's network of ground-based telescopes.

14
00:00:57,180 --> 00:01:02,300
The broadcast featured NASA experts discussing work on the space station and the future of

15
00:01:02,300 --> 00:01:05,690
space exploration.

16
00:01:05,690 --> 00:01:10,260
Astronaut Terry Virts also made appearances in Baltimore during his Washington-area visit.

17
00:01:10,260 --> 00:01:14,980
At Fort McHenry, he presented officials with a flag flown in space during his mission.

18
00:01:14,980 --> 00:01:20,280
They gave Virts a flag flown over the fort, on the recent anniversary of the 1814 battle

19
00:01:20,280 --> 00:01:23,580
that inspired the writing of the Star Spangled Banner.

20
00:01:23,580 --> 00:01:28,270
Later that evening, Virts returned a baseball jersey flown in space to the Baltimore Orioles

21
00:01:28,270 --> 00:01:32,740
during a pre-game ceremony at Camden Yards.

22
00:01:32,740 --> 00:01:37,920
NASA has completed a rigorous technical and
programmatic review for the Orion spacecraft,

23
00:01:37,920 --> 00:01:42,409
confirming continued support of the program
and establishing the agency’s commitment

24
00:01:42,409 --> 00:01:46,170
to the program’s technical, cost, and schedule
baseline.

25
00:01:46,170 --> 00:01:51,300
This is the first time NASA has reached this
level of progress for a spacecraft designed

26
00:01:51,300 --> 00:01:56,210
to take humans into deep space beyond the
moon, including to an asteroid placed in lunar

27
00:01:56,210 --> 00:01:58,920
orbit and on the journey to Mars.

28
00:01:58,920 --> 00:02:05,510
New research, using data from NASA's Cassini
spacecraft has determined a global ocean lies

29
00:02:05,510 --> 00:02:10,530
beneath the icy crust of Saturn's geologically
active moon Enceladus.

30
00:02:10,530 --> 00:02:15,030
According to researchers, the magnitude of
the moon's very slight wobble, as it orbits

31
00:02:15,030 --> 00:02:21,030
Saturn, can only be accounted for by the presence
of a global ocean.

32
00:02:21,030 --> 00:02:27,090
On Sept. 17, NASA Administrator Charlie Bolden
joined Terry Virts and Expedition 43 Flight

33
00:02:27,090 --> 00:02:32,260
Engineer Samantha Cristoforetti of ESA, for
a town hall hosted by the U.S. Agency for

34
00:02:32,260 --> 00:02:37,330
International Development (USAID) at the Reagan
Building, in Washington to discuss the SERVIR

35
00:02:37,330 --> 00:02:38,330
partnership.

36
00:02:38,330 --> 00:02:42,450
The joint venture between the agencies provides
state-of-the-art, satellite-based imagery

37
00:02:42,450 --> 00:02:48,120
and data of Earth to help improve environmental
decision-making in developing countries.

38
00:02:48,120 --> 00:02:54,130
The ISERV camera onboard the International
Space Station, provides some of this data.

39
00:02:54,130 --> 00:03:00,319
According to a NASA analysis of satellite
data, the 2015 Arctic sea ice summertime minimum

40
00:03:00,319 --> 00:03:05,910
extent is the fourth lowest on record since
observations from space began.

41
00:03:05,910 --> 00:03:11,160
Arctic sea ice cover helps regulate the planet’s
temperature by reflecting solar energy back

42

00:03:11,160 --> 00:03:12,380
to space.

43
00:03:12,380 --> 00:03:17,811
The sea ice cap's minimum summertime extent
has been decreasing since the late 1970s in

44
00:03:17,811 --> 00:03:20,099
response to warming temperatures.

45
00:03:20,099 --> 00:03:26,129
On Sept. 16, Administrator Bolden and NASA
Associate Administrator for Small Business,

46
00:03:26,129 --> 00:03:31,770
Glen Delgado visited Alabama A&M University
to hear success stories about a mentor program

47
00:03:31,770 --> 00:03:35,099
sponsored by NASA and Aerojet Rocketdyne.

48
00:03:35,099 --> 00:03:39,459
That visit and an annual event at the U.S.
Space & Rocket Center in Huntsville, Alabama

49
00:03:39,459 --> 00:03:44,520
are part of a NASA initiative to help connect
the agency's prime contractors with colleges

50
00:03:44,520 --> 00:03:49,459
and universities that serve minority students.

51
00:03:49,459 --> 00:03:53,880
Some NASA employees, who served as technical
consultants for the new movie, "The Martian"

52
00:03:53,880 --> 00:03:59,269
attended the Sept. 11 premiere at the Toronto
International Film Festival, to discuss the

53
00:03:59,269 --> 00:04:04,270
movie’s realistic portrayal of the challenges
NASA faces in getting humans to Mars in the

54
00:04:04,270 --> 00:04:05,270
2030s.

55
00:04:05,270 --> 00:04:10,360
A few days later at Johnson Space Center,
some of the film’s cast members saw NASA

56
00:04:10,360 --> 00:04:15,130
at work during a tour that included a stop
at the International Space Station’s mission

57
00:04:15,130 --> 00:04:17,889
control and a call to the station.

58
00:04:17,889 --> 00:04:24,330
Then on Sept. 17 at NASA Headquarters, Administrator
Bolden led an agency-wide discussion about

59
00:04:24,330 --> 00:04:28,650
the film’s use of real NASA science and
exploration of Mars.

60
00:04:28,650 --> 00:04:34,099
NASA is already working on many of the technologies
depicted in the movie required for a human

61
00:04:34,099 --> 00:04:36,599
mission to Mars.

62
00:04:36,599 --> 00:04:38,629
And that’s what’s up this week @NASA …