1
00:00:00,830 --> 00:00:05,290
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:05,290 --> 00:00:09,740
Cameras outside the International Space Station
captured views of Hurricane Matthew during

3
00:00:09,740 --> 00:00:14,420
several passes over the major storm, as it
made its way north through the Caribbean Sea

4
00:00:14,420 --> 00:00:16,830
during the week of Oct. 3.

5
00:00:16,830 --> 00:00:22,710
The storm, which reached Category 4 status
with winds up to about 145 miles per hour,

6
00:00:22,710 --> 00:00:26,619
impacted Haiti, eastern Cuba and the Bahamas.

7
00:00:26,619 --> 00:00:30,970
Forecasters predicted Matthew would threaten
the southeast coast of the United States,

8
00:00:30,970 --> 00:00:33,340
including Florida’s Space Coast.

9
00:00:33,340 --> 00:00:38,690
As a precaution, NASA’s Kennedy Space Center
closed Oct. 5 after preparing facilities for

10
00:00:38,690 --> 00:00:42,750
what could be a direct hit from the storm.

11
00:00:42,750 --> 00:00:48,200
On Oct. 3, NASA’s Mars Atmosphere and Volatile
EvolutioN or (MAVEN) mission completed one

12
00:00:48,200 --> 00:00:51,480
Martian year of science observations at Mars.

13
00:00:51,480 --> 00:00:55,480
One Martian year (687 Days) is equivalent
to just under two Earth years.

14
00:00:55,480 --> 00:01:01,940
Since settling into orbit around Mars on Sept.
21, 2014, MAVEN has helped researchers formulate

15
00:01:01,940 --> 00:01:07,600
the most complete understanding of the role
solar wind plays in the loss of the planet's

16
00:01:07,600 --> 00:01:08,600
atmosphere.

17
00:01:08,600 --> 00:01:13,490
The mission has also helped scientists determine
that the loss of atmospheric gas to space

18
00:01:13,490 --> 00:01:18,440
is the major force behind the change in the
planet's climate from the warm, wet environment

19
00:01:18,440 --> 00:01:22,830
it was in the past, to the cold, dry one that
we see today.

20
00:01:22,830 --> 00:01:26,740
MAVEN has been approved for an additional
two-year mission extension that will run through

21
00:01:26,740 --> 00:01:30,900
the end of September 2018.

22
00:01:30,900 --> 00:01:34,640

Engineers at NASA's Marshall Space Flight
Center in Huntsville, Alabama, are getting

23
00:01:34,640 --> 00:01:39,980
ready to put the pressure on hardware for
the agency’s Space Launch System (SLS) rocket.

24
00:01:39,980 --> 00:01:46,310
On Sept. 21, a simulator of the SLS core stage,
designed and built at Marshall, was lifted

25
00:01:46,310 --> 00:01:52,590
and lowered into the newly-constructed 65-foot-tall
test stand there, in preparation for a series

26
00:01:52,590 --> 00:01:57,830
of rigorous stress tests with hardware for
the SLS and NASA’s Orion spacecraft.

27
00:01:57,830 --> 00:02:03,010
The testing, which is scheduled to begin in
January, is designed to ensure the world’s

28
00:02:03,010 --> 00:02:09,259
most powerful rocket can withstand the incredible
forces that occur during a launch.

29
00:02:09,259 --> 00:02:14,780
NASA’s Oceans Melting Greenland (OMG) airborne
field campaign is back in the Arctic – dropping

30
00:02:14,780 --> 00:02:19,910
probes from a science aircraft into ocean
waters off the coast of Greenland.

31
00:02:19,910 --> 00:02:25,410
The probes relay data to airborne computers
that show where warm, extremely salty, subsurface

32
00:02:25,410 --> 00:02:30,330

water is reaching the bottoms of glaciers
– a process believed to be contributing

33
00:02:30,330 --> 00:02:34,980
to accelerated melting of the world’s second
largest ice sheet.

34
00:02:34,980 --> 00:02:39,900
Oceans Melting Greenland is part of NASA’s
Earth Expeditions field studies designed to

35
00:02:39,900 --> 00:02:45,410
delve into tough questions about how our home
planet is changing.

36
00:02:45,410 --> 00:02:50,390
In recognition of Hispanic Heritage Month
NASA hosted an October 4 event at the agency’s

37
00:02:50,390 --> 00:02:55,890
headquarters in Washington, called Aspira
con NASA – which, in English, translates

38
00:02:55,890 --> 00:02:58,160
to “Aspire with NASA”.

39
00:02:58,160 --> 00:03:02,790
The event featured a video message from NASA
Administrator Charlie Bolden, and remarks

40
00:03:02,790 --> 00:03:07,890
from Associate Administrator for Education,
Donald James and Krista Paquin – associate

41
00:03:07,890 --> 00:03:09,720
administrator for Mission Support.

42
00:03:09,720 --> 00:03:14,959
Guest speakers Diana Trujillo, mission lead
for NASA’s Mars Curiosity Rover, and former

43
00:03:14,959 --> 00:03:20,810
NASA astronaut José Hernández also each
shared their personal stories with students,

44
00:03:20,810 --> 00:03:26,800
to help inspire and encourage them to pursue
an education and career in a Science, Technology,

45
00:03:26,800 --> 00:03:30,819
Engineering and Math, or STEM-related field.

46
00:03:30,819 --> 00:03:35,130
NASA was represented at two White House events
the week of October 3.

47
00:03:35,130 --> 00:03:40,819
NASA astronaut Anne McClain participated in
a Facebook Live and other activities at Monday's

48
00:03:40,819 --> 00:03:46,550
South by South Lawn – a White House festival
that brought together creative thinkers, innovators,

49
00:03:46,550 --> 00:03:49,250
and organizers from around the country.

50
00:03:49,250 --> 00:03:53,349
And on Thursday, astronaut Kjell Lindgren
participated in the harvest of the White House

51
00:03:53,349 --> 00:03:54,800
Kitchen Garden.

52
00:03:54,800 --> 00:03:59,709
Last spring, NASA officials helped the First
Lady plant seeds in the garden, including

53
00:03:59,709 --> 00:04:04,310

seedlings of the same variety of lettuce that
has been grown on the International Space

54
00:04:04,310 --> 00:04:05,450
Station.

55
00:04:05,450 --> 00:04:09,910
Lindgren harvested the original crop of lettuce
onboard the Space Station during his time

56
00:04:09,910 --> 00:04:10,930
on orbit.

57
00:04:10,930 --> 00:04:14,530
And that’s what’s up this week @NASA …
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