



1

00:00:00,429 --> 00:00:05,309

"Progress continues on work to prepare the Orion spacecraft for next year's flight test

2

00:00:07,879 --> 00:00:06,309

..."

3

00:00:07,879 --> 00:00:13,330

"And the MAVEN spacecraft is on its way to Mars ... Those are some of the stories trending,

4

00:00:13,330 --> 00:00:15,680

This Week at NASA!"

5

00:00:15,680 --> 00:00:20,700

The Mars Atmosphere and Volatile Evolution, or MAVEN spacecraft launched from Cape Canaveral

6

00:00:20,700 --> 00:00:24,270

Air Force Station in Florida on a 10-month journey to Mars.

7

00:00:24,270 --> 00:00:28,360

MAVEN will take critical measurements of the Martian upper atmosphere to investigate how

8

00:00:28,360 --> 00:00:34,860

loss of the atmosphere to space impacted the history of water on the planet's surface.

9

00:00:34,860 --> 00:00:39,390

November 20 marked the fifteenth anniversary of the launch of Zarya, the International

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00:00:39,390 --> 00:00:41,250

Space Station's first module.

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00:00:41,250 --> 00:00:44,040

The station's first crew arrived a couple

of years later.

12  
00:00:44,040 --> 00:00:48,680  
Since then, humans have continuously conducted research on technologies we'll need for future

13  
00:00:48,680 --> 00:00:51,860  
missions to deep space.

14  
00:00:51,860 --> 00:00:56,489  
During a public workshop at Houston's Lunar and Planetary Institute, NASA examined some

15  
00:00:56,489 --> 00:01:01,829  
recently submitted ideas about how to respond to asteroid threats and identify, capture

16  
00:01:01,829 --> 00:01:05,270  
and relocate near-Earth asteroids for study.

17  
00:01:05,270 --> 00:01:12,210  
Some of the ideas will be considered as NASA refines future plans of its asteroid initiative.

18  
00:01:12,210 --> 00:01:17,040  
Flight controllers for NASA's Lunar Atmosphere and Dust Environment Explorer mission confirmed

19  
00:01:17,040 --> 00:01:22,080  
that the LADEE spacecraft has begun the science phase of its mission -- analyzing lunar dust

20  
00:01:22,080 --> 00:01:26,920  
particles while orbiting the moon -- to help better understand other planetary bodies in

21  
00:01:26,920 --> 00:01:29,320  
the solar system.

22

00:01:29,320 --> 00:01:33,890

NASA Administrator Charlie Bolden and others checked out work underway at Kennedy Space

23

00:01:33,890 --> 00:01:38,600

Center to prepare the Orion spacecraft for its flight test next September.

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00:01:38,600 --> 00:01:44,150

Meanwhile, a successful separation test of Orion's protective fairing panels at Lockheed

25

00:01:44,150 --> 00:01:48,659

Martin ... and at Marshall Space Flight Center -- some special paint for the adapter that

26

00:01:48,659 --> 00:01:53,410

will connect Orion to a Delta IV rocket, will provide protection from electrical discharge

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00:01:53,410 --> 00:01:58,610

during the flight test ... and the arrival of a device designed to repel hot gases away

28

00:01:58,610 --> 00:02:02,140

from Orion on its way to space.

29

00:02:02,140 --> 00:02:07,090

At Dryden Flight Research Center, an F/A-18 was used to test an autonomous flight control

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00:02:07,090 --> 00:02:10,029

system for NASA's Space Launch System rocket.

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00:02:10,029 --> 00:02:14,980

The autopilot system, known as the Adaptive Augmenting Controller, will enable the SLS

32

00:02:14,980 --> 00:02:20,569

to respond to post-launch environmental variations

in winds or vehicle flexibility.

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00:02:20,569 --> 00:02:24,769

The system should be ready for the rocket's 2017 flight test.

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00:02:24,769 --> 00:02:29,780

NASA issued a final Request for Proposals for its new Commercial Crew Transportation

35

00:02:29,780 --> 00:02:31,269

Capability contract.

36

00:02:31,269 --> 00:02:36,519

CCTCap is meant to ensure commercial companies meet safety requirements for transporting

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00:02:36,519 --> 00:02:40,340

NASA crews from U.S. soil to the International Space Station.

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00:02:40,340 --> 00:02:45,439

The procurement phase is expected to include crewed demonstration missions to the ISS before

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00:02:45,439 --> 00:02:48,079

2017.

40

00:02:48,079 --> 00:02:52,129

Among the group of satellites launched on an Air Force Minotaur I rocket from Wallops

41

00:02:52,129 --> 00:02:58,720

Flight Facility November 19 were NASA's PhoneSat2 and TJ-cubesat, the first ever space-bound

42

00:02:58,720 --> 00:03:01,090

cubesat built by high school students.

43

00:03:01,090 --> 00:03:07,590

Students from Thomas Jefferson School of Science and Technology, near Washington, built TJ-cubesat.

44

00:03:07,590 --> 00:03:12,610

During a White House ceremony, late NASA astronaut Sally Ride was one of sixteen people awarded

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00:03:12,610 --> 00:03:17,230

The Presidential Medal of Freedom -- the Nation's highest civilian honor.

46

00:03:17,230 --> 00:03:22,939

The first American woman in space, Ride also was a passionate advocate for education.

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00:03:22,939 --> 00:03:25,040

And that's what's up ... This Week at NASA.