



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.

11

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

The station's first crew arrived a couple

of years later.

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00:00:44,040 --> 00:00:48,680

Since then, humans have continuously conducted research on technologies we'll need for future

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00:00:48,680 --> 00:00:51,350

missions to deep space.

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00:00:51,350 --> 00:00:56,370

During a public workshop at Houston's Lunar and Planetary Institute in Houston NASA examined

15

00:00:56,370 --> 00:01:01,530

some recently submitted ideas about how to respond to asteroid threats and identify,

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00:01:01,530 --> 00:01:05,330

capture and relocate near-Earth asteroids for study.

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00:01:05,330 --> 00:01:12,320

Some of the ideas will be considered as NASA refines future plans of its asteroid initiative.

18

00:01:12,320 --> 00:01:17,150

Flight controllers for NASA's Lunar Atmosphere and Dust Environment Explorer mission confirmed

19

00:01:17,150 --> 00:01:22,210

that the LADEE spacecraft has begun the science phase of its mission -- analyzing lunar dust

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00:01:22,210 --> 00:01:27,030

particles while orbiting the moon -- to help better understand other planetary bodies in

21

00:01:27,030 --> 00:01:29,420

the solar system.

22
00:01:29,420 --> 00:01:34,010
NASA Administrator Charlie Bolden and others
checked out work underway at Kennedy Space

23
00:01:34,010 --> 00:01:38,720
Center to prepare the Orion spacecraft for
its flight test next September.

24
00:01:38,720 --> 00:01:44,259
Meanwhile, a successful separation test of
Orion's protective fairing panels at Lockheed

25
00:01:44,259 --> 00:01:48,770
Martin ... and at Marshall Space Flight Center
-- some special paint for the adapter that

26
00:01:48,770 --> 00:01:53,530
will connect Orion to a Delta IV rocket, will
provide protection from electrical discharge

27
00:01:53,530 --> 00:01:58,729
during the flight test ... and the arrival
of a device designed to repel hot gases away

28
00:01:58,729 --> 00:02:02,260
from Orion on its way to space.

29
00:02:02,260 --> 00:02:07,210
At Dryden Flight Research Center, an F/A-18
was used to test an autonomous flight control

30
00:02:07,210 --> 00:02:10,149
system for NASA's Space Launch System rocket.

31
00:02:10,149 --> 00:02:15,079
The autopilot system, known as the Adaptive
Augmenting Controller, will enable the SLS

32
00:02:15,079 --> 00:02:20,689

to respond to post-launch environmental variations in winds or vehicle flexibility.

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00:02:20,689 --> 00:02:24,890

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

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00:02:24,890 --> 00:02:29,900

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

35

00:02:29,900 --> 00:02:31,379

Capability contract.

36

00:02:31,379 --> 00:02:36,640

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

37

00:02:36,640 --> 00:02:40,450

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

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00:02:40,450 --> 00:02:45,559

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

39

00:02:45,559 --> 00:02:48,199

2017.

40

00:02:48,199 --> 00:02:52,250

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

41

00:02:52,250 --> 00:02:58,839

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

42

00:02:58,839 --> 00:03:01,219

cubesat built by high school students.

43

00:03:01,219 --> 00:03:07,709

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

44

00:03:07,709 --> 00:03:12,730

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

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00:03:12,730 --> 00:03:17,049

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

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00:03:17,049 --> 00:03:23,049

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

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00:03:23,049 --> 00:03:25,150

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