



1  
00:00:01,010 --> 00:00:05,230

“Here’s some of the stories trending This Week at NASA!”

2  
00:00:05,230 --> 00:00:09,800

NASA and the U.S. Navy were busy recently – preparing for tests scheduled off the

3  
00:00:09,800 --> 00:00:12,150  
coast of San Diego, California.

4  
00:00:12,150 --> 00:00:17,070

Crews will run through the procedures to recover NASA's Orion spacecraft from the ocean, following

5  
00:00:17,070 --> 00:00:19,820

its water landing from deep space missions.

6  
00:00:19,820 --> 00:00:24,220

Kennedy Space Center, Johnson Space Center, and Lockheed Martin Space Operations are all

7  
00:00:24,220 --> 00:00:27,480

involved in the recovery effort.

8  
00:00:27,480 --> 00:00:32,930

During a July 31 briefing at NASA headquarters, agency officials announced that seven science

9  
00:00:32,930 --> 00:00:36,710

instruments, out of fifty-eight proposed, have been selected to be part of the next

10  
00:00:36,710 --> 00:00:39,969

rover NASA will send to Mars in 2020.

11  
00:00:39,969 --> 00:00:44,719

The Mars 2020 rover will be a new version of the Curiosity rover currently operating

12  
00:00:44,719 --> 00:00:50,140  
on Mars – with more sophisticated hardware  
to conduct unprecedented science and exploration

13  
00:00:50,140 --> 00:00:55,769  
technology investigations, including geological  
assessments, potential habitability of the

14  
00:00:55,769 --> 00:01:01,120  
current environment and directly searching  
for signs of past life on the Red Planet -- something

15  
00:01:01,120 --> 00:01:04,949  
no previous Mars mission has done.

16  
00:01:04,949 --> 00:01:10,220  
NASA's Opportunity Mars rover now holds the  
off-Earth roving distance record after surpassing

17  
00:01:10,220 --> 00:01:13,970  
25 miles of driving on the Red Planet since  
2004.

18  
00:01:13,970 --> 00:01:21,320  
A 157-foot drive on July 27 put Opportunity's  
odometer at 25-point-zero-one miles.

19  
00:01:21,320 --> 00:01:26,290  
The previous record was held by the Soviet  
Union's Lunokhod 2 rover, on the moon.

20  
00:01:26,290 --> 00:01:32,370  
Opportunity, Curiosity and the planned Mars  
2020 rover are part of NASA's Mars Exploration

21  
00:01:32,370 --> 00:01:38,490  
Program, which also will prepare for a human  
mission to Mars in the 2030s.

22  
00:01:38,490 --> 00:01:42,590  
The Intelligent Robotics Group at NASA's  
Ames Research Center recently conducted the

23  
00:01:42,590 --> 00:01:47,980  
first field test of the newly updated K-REX  
rover, in the Basalt Hills near California's

24  
00:01:47,980 --> 00:01:49,270  
Central Valley.

25  
00:01:49,270 --> 00:01:54,710  
The testing, funded by NASA's Space Technology,  
Science and Human Exploration and Operations

26  
00:01:54,710 --> 00:02:00,840  
mission directorates is designed to prepare  
for future NASA robotic exploration missions,

27  
00:02:00,840 --> 00:02:11,370  
including improved mobility over difficult  
terrain and remote control technologies.

28  
00:02:11,370 --> 00:02:15,849  
The European Space Agency launched its fifth  
and final Automated Transfer Vehicle to the

29  
00:02:15,849 --> 00:02:20,209  
International Space Station from Kourou, French  
Guiana on July 29.

30  
00:02:20,209 --> 00:02:25,280  
The ATV-5 cargo spacecraft, named George Lemaitre  
(ZHORJ Luh-MAH-truh) after the 20th century

31  
00:02:25,280 --> 00:02:30,209  
Belgian astronomer, is scheduled to complete  
its two-week journey to the ISS on August

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00:02:30,209 --> 00:02:35,569

12 – with some 7 tons of food, fuel and supplies for the Expedition 40 crew onboard

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00:02:35,569 --> 00:02:36,749

ISS.

34

00:02:36,749 --> 00:02:41,379

The first flight of an ATV was in March 2008.

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00:02:41,379 --> 00:02:46,029

NASA has been out in the community, using Science, Technology, Engineering and Math

36

00:02:46,029 --> 00:02:50,959

– or STEM, to stimulate young minds just in time for back-to-school.

37

00:02:50,959 --> 00:02:55,599

Langley Research Center's recent Technology Day at the Virginia Air & Space Center featured

38

00:02:55,599 --> 00:03:00,680

more than two-dozen exhibits showcasing Langley's technology development in support of NASA's

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00:03:00,680 --> 00:03:04,150

deep space exploration, science, and aeronautics missions.

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00:03:04,150 --> 00:03:08,549

Meanwhile, a similar event hosted by Glenn Research Center at Cleveland's Great Lakes

41

00:03:08,549 --> 00:03:13,609

Science Center featured NASA Chief Technologist David Miller, astronaut Doug Wheelock and

42

00:03:13,609 --> 00:03:15,859

Glenn Center Director Jim Free.

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00:03:15,859 --> 00:03:20,469

It included presentations about the important role of Glenn technology in the past success

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00:03:20,469 --> 00:03:25,859

of the Apollo program and how technology will enable NASA to make the next giant leap in

45

00:03:25,859 --> 00:03:28,310

spaceflight -- sending astronauts to Mars.

46

00:03:28,310 --> 00:03:30,609

And that's what's up this week @NASA ...