



1
00:00:00,870 --> 00:00:04,160

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

2
00:00:04,160 --> 00:00:09,630

A news conference was held on Sept. 24 at NASA’s Johnson Space Center with the next

3
00:00:09,630 --> 00:00:14,730

crew launching to the International Space Station, including NASA astronaut Tim Kopra.

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00:00:14,730 --> 00:00:20,060

ESA astronaut Timothy Peake, cosmonaut Yuri Malenchenko of the Russian Federal Space Agency

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00:00:20,060 --> 00:00:26,220

and Kopra will launch to the station aboard a Soyuz spacecraft on Dec. 15 from the Baikonur

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00:00:26,220 --> 00:00:27,880

Cosmodrome in Kazakhstan.

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00:00:27,880 --> 00:00:31,890

They’re currently scheduled to return to Earth in May 2016.

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00:00:31,890 --> 00:00:37,329

NASA’s New Horizons spacecraft has sent back the most detailed color view yet of the

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00:00:37,329 --> 00:00:38,990

Pluto hemisphere.

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00:00:38,990 --> 00:00:44,329

The new extended view, captured during the spacecraft’s July 14 flyby of Pluto, shows

11
00:00:44,329 --> 00:00:49,440

extremely rich and varied colors -- all of which are clues about the elemental makeup

12

00:00:49,440 --> 00:00:52,069
of the dwarf planet's surface.

13

00:00:52,069 --> 00:00:58,380
Sept. 21 marked the one-year anniversary of the arrival at Mars of NASA's MAVEN spacecraft

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00:00:58,380 --> 00:01:03,329
– the first probe dedicated to studying what has happened to the Martian atmosphere

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00:01:03,329 --> 00:01:09,710
and how that history has influenced the evolution of the planet's surface and potential habitability.

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00:01:09,710 --> 00:01:14,580
Scientific data gathered by MAVEN in the past year – including the first look at energetic

17

00:01:14,580 --> 00:01:19,860
solar particles in the atmosphere and the first ultraviolet images of oxygen, hydrogen,

18

00:01:19,860 --> 00:01:25,520
and carbon coronas surrounding Mars -- support our current understanding that the upper atmosphere

19

00:01:25,520 --> 00:01:31,180
is only tenuously bound by the Red Planet's weak gravity.

20

00:01:31,180 --> 00:01:36,180
For the first time in its seven years of flights, NASA's Operation IceBridge is conducting survey

21

00:01:36,180 --> 00:01:41,280
missions of polar ice in Antarctica and the

Arctic during the same timeframe.

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00:01:41,280 --> 00:01:47,340

The Antarctic campaign, which kicked off on Sept. 22, will continue until Nov. 2, with

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00:01:47,340 --> 00:01:52,640

Arctic flights scheduled to last from Sept. 23 until Oct. 23.

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00:01:52,640 --> 00:01:58,280

The goal of the IceBridge mission is to collect data on changing polar land and sea ice and

25

00:01:58,280 --> 00:02:04,800

maintain continuity of measurements between ICESat satellite missions.

26

00:02:04,800 --> 00:02:10,780

NASA-developed software, called Traffic Aware Strategic Aircrew Requests (TASAR), designed

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00:02:10,780 --> 00:02:16,400

to help airlines save time, fuel and reduce carbon emissions soon will be tested on board

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00:02:16,400 --> 00:02:22,069

Virgin America and Alaska Airlines, following a recently signed agreement with Langley Research

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00:02:22,069 --> 00:02:24,069

Center in Hampton, Va.

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00:02:24,069 --> 00:02:29,379

The technology assists pilots to determine the most efficient flight paths, while planes

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00:02:29,379 --> 00:02:33,060

are en route to their destinations.

32
00:02:33,060 --> 00:02:37,920
The West Virginia University Mountaineers
robotics team that won \$100,000 in June at

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00:02:37,920 --> 00:02:44,099
NASA's Sample Return Robot Challenge, was
recognized by West Virginia Senators Joe Manchin

34
00:02:44,099 --> 00:02:49,049
and Shelley Moore Capito at a Sept 21 event
on Capitol Hill.

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00:02:49,049 --> 00:02:53,940
NASA Associate Administrator for Space Technology
Steve Jurczyk also was there.

36
00:02:53,940 --> 00:03:00,300
The Centennial Challenges Program encourages
innovations in autonomous navigation and robotics

37
00:03:00,300 --> 00:03:01,300
technologies.

38
00:03:01,300 --> 00:03:04,409
And that's what's up this week @NASA ...