



1

00:00:00,789 --> 00:00:05,149

"Here's some of the stories trending This Week at NASA!"

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00:00:05,149 --> 00:00:08,380

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On April 20, Expedition 51-52 Flight Engineer

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00:00:08,380 --> 00:00:14,610

Jack Fischer of NASA and Soyuz Commander Fyodor Yurchikhin of the Russian Space Agency, Roscosmos

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00:00:14,610 --> 00:00:19,899

launched to the International Space Station aboard a Soyuz spacecraft, from the Baikonur

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00:00:19,899 --> 00:00:22,100

Cosmodrome in Kazakhstan.

6

00:00:22,100 --> 00:00:26,950

About six-hours later, the pair arrived at the orbital outpost and were greeted by station

7

00:00:26,950 --> 00:00:31,150

Commander Peggy Whitson of NASA and other members of the crew.

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00:00:31,150 --> 00:00:36,560

Fischer and Yurchikhin will spend four and a half months conducting research aboard the

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00:00:36,560 --> 00:00:37,870

station.

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00:00:37,870 --> 00:00:43,010

Orbital ATK's Cygnus cargo spacecraft launched to the station atop a United Launch Alliance

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00:00:43,010 --> 00:00:48,460

Atlas V rocket April 18, from the Cape Canaveral Air Force Station in Florida.

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00:00:48,460 --> 00:00:54,030
The Cygnus -- named the "SS John Glenn" in honor of the late NASA astronaut and U.S.

13
00:00:54,030 --> 00:01:00,579
Senator from Ohio, is delivering more than 7,600 pounds of supplies and scientific experiments

14
00:01:00,579 --> 00:01:02,530
for the station crew.

15
00:01:02,530 --> 00:01:07,610
Following its arrival on April 22, the Cygnus is scheduled to spend the next three months

16
00:01:07,610 --> 00:01:10,220
at the station.

17
00:01:10,220 --> 00:01:12,260
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Three extraordinary planet hunters have been

18
00:01:12,260 --> 00:01:18,710
named to Time Magazine's annual list of the 100 most influential people in the world.

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00:01:18,710 --> 00:01:24,180
Natalie Batalha, is a project scientist with NASA's Kepler mission – Kepler discovered

20
00:01:24,180 --> 00:01:27,250
the first Earth-size planets beyond our solar system.

21
00:01:27,250 --> 00:01:33,670
She's joined on the list by Guillem Anglada-Escudé of the Queen Mary University of London, who

22
00:01:33,670 --> 00:01:40,600
discovered an Earth-size planet orbiting Proxima Centauri in 2016, and Michaël Gillon of the

23
00:01:40,600 --> 00:01:45,939
University of Liège in Belgium, who recently announced the discovery of the first known

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00:01:45,939 --> 00:01:50,159
system of seven Earth-size planets around a single star.

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00:01:50,159 --> 00:01:56,960
The discovery was made using NASA's Spitzer Space Telescope and ground-based observatories.

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00:01:56,960 --> 00:01:59,890
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As NASA's Dawn spacecraft continues exploring

27
00:01:59,890 --> 00:02:05,460
the dwarf planet Ceres, there is growing evidence that Ceres has a significant amount of water

28
00:02:05,460 --> 00:02:06,460
ice.

29
00:02:06,460 --> 00:02:12,129
A new study in the journal Nature Geoscience adds to this picture, showing how ice may

30
00:02:12,129 --> 00:02:16,840
have shaped the variety of landslides seen on Ceres today.

31
00:02:16,840 --> 00:02:22,819
Research shows that Ceres is covered in landslides like those we experience on Earth, and furthers

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00:02:22,819 --> 00:02:29,230

the case that the dwarf planet has a lot of water ice involved in its structure.

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00:02:29,230 --> 00:02:31,879

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NASA's senior Mars rover, Opportunity, is

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00:02:31,879 --> 00:02:38,120

leaving "Cape Tribulation" – a crater-rim segment it has explored since late 2014.

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00:02:38,120 --> 00:02:43,830

Opportunity is headed southbound for the fluid-carved "Perseverance Valley" on the "Cape Byron"

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00:02:43,830 --> 00:02:45,480

segment of the crater rim.

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00:02:45,480 --> 00:02:51,169

The rover team plans observations in the valley in an effort to determine the type of fluid

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00:02:51,169 --> 00:02:57,049

activity that carved out the valley billions of years ago: water, wind or flowing debris

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00:02:57,049 --> 00:02:59,449

lubricated by water.

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00:02:59,449 --> 00:03:02,340

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NASA's Earth Day celebrations this year

41

00:03:02,340 --> 00:03:05,829

include live and online public activities.

42

00:03:05,829 --> 00:03:11,120

The April 20 Earth Day in the Nation's Capital

event at Washington's Union Station featured

43
00:03:11,120 --> 00:03:17,120
NASA hands-on activities and presentations,
images of Earth on NASA's Hyperwall, agency

44
00:03:17,120 --> 00:03:21,900
officials discussing the benefits of observing
our home planet from the vantage point of

45
00:03:21,900 --> 00:03:27,249
space, and autographs from former astronaut
Scott Altman – commander of the last Hubble

46
00:03:27,249 --> 00:03:29,829
Space Telescope Servicing mission.

47
00:03:29,829 --> 00:03:34,930
NASA also invited the public to learn about
our global environment by "adopting" a small

48
00:03:34,930 --> 00:03:42,189
part of Earth – complete with an adoption
certificate to print and share on social media.

49
00:03:42,189 --> 00:03:43,189
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50
00:03:43,189 --> 00:03:44,279
And that's what's up this week @NASA ...
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