1
00:00:00,810 --> 00:00:05,750
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:05,750 --> 00:00:10,290
A July 24 update at NASA headquarters, featured
new surprising imagery and science results

3
00:00:10,290 --> 00:00:14,740
from the recent flyby of Pluto, by the New
Horizons spacecraft.

4
00:00:14,740 --> 00:00:19,179
This image, from the Long Range Reconnaissance
Imager or (LORRI) – looking back at Pluto

5
00:00:19,179 --> 00:00:24,429
– hours after the historic flyby revealed
a haze in the planet’s sunlit atmosphere

6
00:00:24,429 --> 00:00:30,270
that extends as high as 80 miles above Pluto’s
surface – much higher than expected.

7
00:00:30,270 --> 00:00:36,310
Models suggest that the hazes form when ultraviolet
sunlight breaks apart methane gas.

8
00:00:36,310 --> 00:00:41,020
LORRI images also show evidence that exotic
ices have flowed – and may still be flowing

9
00:00:41,020 --> 00:00:45,280
across Pluto’s surface, similar to glacial
movement on Earth.

10
00:00:45,280 --> 00:00:50,460
This unpredicted sign of present-day geologic
activity was detected in Sputnik Planum – an

11
00:00:50,460 --> 00:00:54,510
area in the western part of Pluto’s heart-shaped
Tombaugh Regio.

12
00:00:54,510 --> 00:00:59,030
Additionally, new compositional data from
New Horizons’ Ralph instrument indicate

13
00:00:59,030 --> 00:01:04,180
that the center of Sputnik Planum is rich
in nitrogen, carbon monoxide, and methane

14
00:01:04,180 --> 00:01:06,520
ices.

15
00:01:06,520 --> 00:01:11,380
NASA's Kepler mission has confirmed the first
near-Earth-size planet orbiting a sun-like

16
00:01:11,380 --> 00:01:16,210
star’s "habitable zone" -- the range of
distances from a star where liquid water might

17
00:01:16,210 --> 00:01:18,509
pool on a planet’s surface.

18
00:01:18,509 --> 00:01:23,119
While smaller planets have previously been
found in the rare habitable zone, the newly

19
00:01:23,119 --> 00:01:29,540
discovered Kepler-452b is the first orbiting
around a star like our own sun.

20
00:01:29,540 --> 00:01:35,130
NASA’s Kjell Lindgren and Expedition 44
crewmates Oleg Kononenko of the Russian Federal

21
00:01:35,130 --> 00:01:40,829

Space Agency and Japan Aerospace Exploration
Agency astronaut Kimiya Yui launched from

22
00:01:40,829 --> 00:01:46,930
Kazakhstan aboard a Soyuz spacecraft July
22 to begin a five-month mission on the International

23
00:01:46,930 --> 00:01:48,249
Space Station.

24
00:01:48,249 --> 00:01:52,670
When they reached the station six-hours later,
they were greeted by station commander Gennady

25
00:01:52,670 --> 00:01:58,170
Padalka of Roscosmos, NASA Flight Engineer
Scott Kelly and Russian Flight Engineer Mikhail

26
00:01:58,170 --> 00:02:00,700
Kornienko.

27
00:02:00,700 --> 00:02:05,649
A NASA camera on the (DSCOVR) satellite has
returned its first view of the entire sunlit

28
00:02:05,649 --> 00:02:08,890
side of Earth from one million miles away.

29
00:02:08,890 --> 00:02:14,620
The Earth Polychromatic Imaging Camera or
(EPIC) takes a series of 10 images using different

30
00:02:14,620 --> 00:02:21,319
narrowband from ultraviolet to near infrared
filters to produce a variety of science products.

31
00:02:21,319 --> 00:02:25,970
The bluish tint of the initial images is a
characteristic effect of sunlight scattered

32
00:02:25,970 --> 00:02:27,890
by air molecules.

33
00:02:27,890 --> 00:02:33,150
The EPIC team expects to have daily images
posted to a dedicated web page by September.

34
00:02:33,150 --> 00:02:38,900
DSCOVR is a partnership between NASA, NOAA
and the U.S. Air Force to maintain real-time

35
00:02:38,900 --> 00:02:42,930
solar wind monitoring capabilities.

36
00:02:42,930 --> 00:02:47,950
NASA Deputy Administrator Dava Newman continues
to visit NASA Centers to meet the NASA family

37
00:02:47,950 --> 00:02:52,340
and see the work being done around the country,
on behalf of the agency.

38
00:02:52,340 --> 00:02:57,390
During a recent trip to Ames Research Center
in Northern California, Newman signed an agreement

39
00:02:57,390 --> 00:03:03,079
with U.S. Department of Agriculture Deputy
Secretary Krysta Harden to increase collaboration

40
00:03:03,079 --> 00:03:09,590
in Earth Science research, agriculture management
and to inspire youth to pursue STEM careers.

41
00:03:09,590 --> 00:03:15,620
The visit also included a demonstration highlighting
NASA and USDA research data, and a town hall

42
00:03:15,620 --> 00:03:21,620

meeting with new center director Eugene Tu,
employees and students.

43
00:03:21,620 --> 00:03:26,930
NASA's Kennedy Space Center in Florida took
another step in its transformation to a 21st

44
00:03:26,930 --> 00:03:32,090
Century multi-user spaceport with the recent
completion of a new Small Class Vehicle Launch

45
00:03:32,090 --> 00:03:33,090
Pad.

46
00:03:33,090 --> 00:03:38,790
The new launch pad, designated 39C, is designed
for smaller aerospace companies and will enable

47
00:03:38,790 --> 00:03:43,329
them to develop and launch their vehicles
from Kennedy.\h

48
00:03:43,329 --> 00:03:45,230
And that’s what’s up this week @NASA …