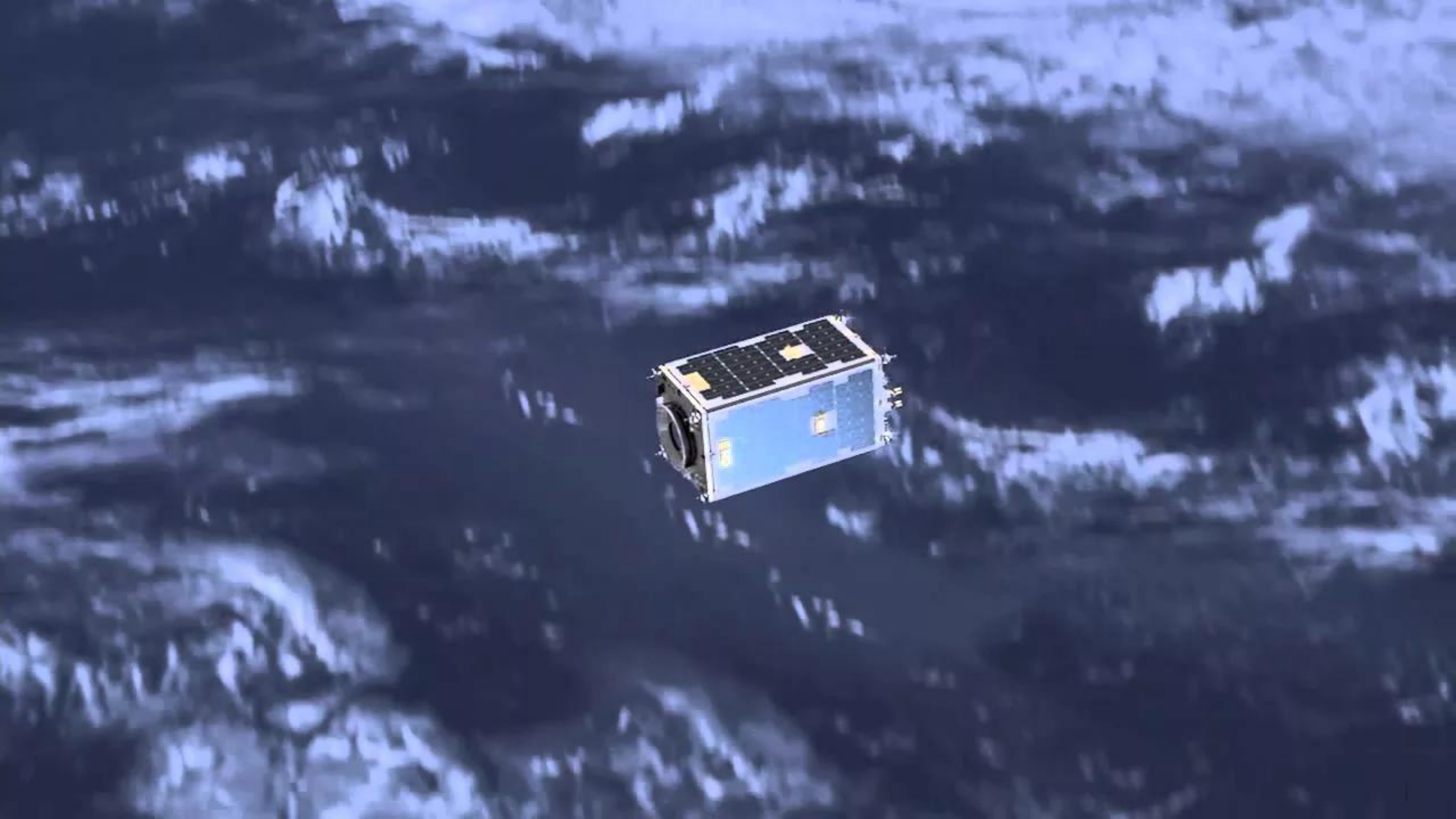

1
00:00:00,760 --> 00:00:05,090
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:05,090 --> 00:00:10,640
During meetings and public events at the International
Astronautical Congress (IAC), Oct. 12-16 in

3
00:00:10,640 --> 00:00:15,980
Jerusalem, NASA Administrator Charlie Bolden
and several other NASA officials highlighted

4
00:00:15,980 --> 00:00:21,360
the agency’s recently released plan to send
astronauts to Mars in the 2030’s.

5
00:00:21,360 --> 00:00:25,980
They also emphasized the need for international
partnerships and cooperation to make a mission

6
00:00:25,980 --> 00:00:31,920
of this magnitude a reality, the importance
of harnessing enthusiasm for space exploration

7
00:00:31,920 --> 00:00:35,989
and the need to encourage young people to
develop the skills we’ll need for the Journey

8
00:00:35,989 --> 00:00:38,570
to Mars.

9
00:00:38,570 --> 00:00:43,170
Oct. 16 was a record-breaking day in space
for International Space Station Commander

10
00:00:43,170 --> 00:00:44,539
Scott Kelly.

11
00:00:44,539 --> 00:00:50,690

It gave him 383 total days in space -- the
most cumulative days in space by a U.S. astronaut

12
00:00:50,690 --> 00:00:54,440
– a record previously held by NASA’s Mike
Fincke.

13
00:00:54,440 --> 00:01:00,389
Kelly will break another record on Oct. 29
– his 216th consecutive day in space -- surpassing

14
00:01:00,389 --> 00:01:05,170
Michael Lopez-Alegria’s record for the single-longest
spaceflight by an American.

15
00:01:05,170 --> 00:01:10,420
Kelly’s time in space as part of the one-year
mission, helps us better understand the physical

16
00:01:10,420 --> 00:01:17,730
and mental effects of long duration spaceflight,
which is critical to NASA’s journey to Mars.

17
00:01:17,730 --> 00:01:24,370
During an Oct. 14 flyby, NASA’s Cassini
spacecraft passed within 1,142 miles of Saturn’s

18
00:01:24,370 --> 00:01:30,150
moon Enceladus to capture the first close-up
look at the plumes of icy spray situated in

19
00:01:30,150 --> 00:01:32,360
the moon’s North Polar Region.

20
00:01:32,360 --> 00:01:37,840
This is a prelude to an even closer flyby
on Oct. 28 when Cassini will get within 30

21
00:01:37,840 --> 00:01:42,390
miles of the moon’s southern polar region

for the most accurate measurements yet of

22
00:01:42,390 --> 00:01:44,420
the plumes' composition.

23
00:01:44,420 --> 00:01:50,520
Dec. 3 is the targeted launch date for the
fourth commercial resupply services mission

24
00:01:50,520 --> 00:01:55,710
of Orbital ATK's Cygnus spacecraft to the
International Space Station.

25
00:01:55,710 --> 00:02:00,800
This will be the first flight of the company's
enhanced Cygnus advanced maneuvering spacecraft,

26
00:02:00,800 --> 00:02:04,530
which can deliver more than 7,700 pounds of
cargo.

27
00:02:04,530 --> 00:02:08,799
The supply spacecraft is scheduled to lift
off aboard a United Launch Alliance Atlas

28
00:02:08,799 --> 00:02:16,310
V rocket from Cape Canaveral Air Force Station,
Florida at about 6 p.m. Eastern Time.

29
00:02:16,310 --> 00:02:20,680
NASA has awarded new Venture Class Launch
Services (VCLS) contracts to three companies

30
00:02:20,680 --> 00:02:28,379
-- Firefly Space Systems, Inc. of Cedar Park,
Texas, Rocket Lab USA, Inc. of Los Angeles

31
00:02:28,379 --> 00:02:32,349
and Virgin Galactic LLC of Long Beach, California.

32
00:02:32,349 --> 00:02:36,870
The launch vehicles developed by these companies
will be used to provide access to low-Earth

33
00:02:36,870 --> 00:02:42,310
orbit for small satellites, which currently
only make it to space as secondary payloads

34
00:02:42,310 --> 00:02:44,170
on other missions.

35
00:02:44,170 --> 00:02:49,779
Small satellites, including CubeSats, are
playing an increasingly larger role in exploration,

36
00:02:49,779 --> 00:02:57,099
technology demonstration, scientific research
and educational investigations at NASA.

37
00:02:57,099 --> 00:03:02,629
Soaring temperatures and heavy traffic did
not deter some 45,000 people from attending

38
00:03:02,629 --> 00:03:09,150
the recent 2-day Open House event at NASA's
Jet Propulsion Laboratory in Pasadena, California.

39
00:03:09,150 --> 00:03:14,569
JPL manages several NASA missions that have
captured the public's attention recently.

40
00:03:14,569 --> 00:03:19,980
These include the Mars Science Laboratory's
Curiosity rover, Dawn, the first spacecraft

41
00:03:19,980 --> 00:03:25,290
to visit a dwarf planet, Ceres, and the Mars
Reconnaissance Orbiter, which has found key

42

00:03:25,290 --> 00:03:30,560
evidence that water does exist on present-day Mars.

43
00:03:30,560 --> 00:03:35,689
NASA Administrator Charlie Bolden helped kick-off the 2015 Combined Federal Campaign recently

44
00:03:35,689 --> 00:03:37,049
at headquarters.

45
00:03:37,049 --> 00:03:42,480
Each year, donations from NASA employees make a positive impact on the lives of others who

46
00:03:42,480 --> 00:03:44,059
are less fortunate.

47
00:03:44,059 --> 00:03:48,859
There is a wide choice of approved local, national and international charities to which

48
00:03:48,859 --> 00:03:51,629
employees around the agency can donate.

49
00:03:51,629 --> 00:03:55,279
The campaign ends Dec. 15.

50
00:03:55,279 --> 00:03:57,309
And that’s what’s up this week @NASA …