1
00:00:00,249 --> 00:00:03,720
The space station’s newest crew members
are safely onboard …

2
00:00:03,720 --> 00:00:07,460
Our first asteroid sample return mission arrives
at its destination …

3
00:00:07,460 --> 00:00:13,889
And, the first sounds from Mars … a few
of the stories to tell you about – This

4
00:00:13,889 --> 00:00:16,680
Week at NASA!

5
00:00:16,680 --> 00:00:21,449
The International Space Station’s three
newest crew members, including our Anne McClain,

6
00:00:21,449 --> 00:00:24,410
are adjusting to life aboard the orbital outpost.

7
00:00:24,410 --> 00:00:29,609
McClain, Oleg Konenenko of Roscosmos, and
David Saint-Jacques of the Canadian Space

8
00:00:29,609 --> 00:00:37,160
Agency docked their Soyuz spacecraft to the
station at 2:33 p.m. EST on Dec. 3 – six

9
00:00:37,160 --> 00:00:39,360
hours after launching from Kazakhstan.

10
00:00:39,360 --> 00:00:44,530
They will spend more than six months on the
station and are scheduled to be onboard during

11
00:00:44,530 --> 00:00:49,989
the first test flights of NASA’s Commercial

Crew Program, which will return human spaceflight

12
00:00:49,989 --> 00:00:53,690
launches to American soil.

13
00:00:53,690 --> 00:00:59,770
On Dec. 5, a SpaceX Dragon cargo spacecraft
launched atop a Falcon 9 rocket from Cape

14
00:00:59,770 --> 00:01:05,210
Canaveral Air Force Station, Florida to deliver
supplies to the space station – including

15
00:01:05,210 --> 00:01:10,970
critical materials to directly support dozens
of the more than 250 science and research

16
00:01:10,970 --> 00:01:12,970
investigations onboard.

17
00:01:12,970 --> 00:01:16,860
This is SpaceX’s 16th resupply mission to
the space station.

18
00:01:16,860 --> 00:01:21,630
“We have arrived! (applause and cheering)”

19
00:01:21,630 --> 00:01:26,060
After traveling through space for more than
two years and two billion kilometers, our

20
00:01:26,060 --> 00:01:31,420
OSIRIS-REx spacecraft arrived at asteroid
Bennu, on Dec. 3.

21
00:01:31,420 --> 00:01:36,920
The spacecraft will spend almost a year surveying
Bennu to select a location on the asteroid

22

00:01:36,920 --> 00:01:41,370
that is safe and scientifically interesting
to collect a sample.

23
00:01:41,370 --> 00:01:47,270
OSIRIS-REx will return that sample to Earth
in September 2023.

24
00:01:47,270 --> 00:01:52,160
Our InSight lander has captured the first
sounds ever sensed directly from the surface

25
00:01:52,160 --> 00:01:56,570
of Mars.

26
00:01:56,570 --> 00:02:01,720
Because the sounds – which are of vibrations
caused by the Martian wind – are below or

27
00:02:01,720 --> 00:02:07,340
near the lower range of human hearing, they've
been processed to make them more audible.

28
00:02:07,340 --> 00:02:11,730
Two very sensitive sensors aboard InSight
each recorded the wind noise in different

29
00:02:11,730 --> 00:02:14,450
ways – resulting in rather different sounds.

30
00:02:14,450 --> 00:02:19,540
An air pressure sensor recorded the direct
air vibrations caused by the wind moving through

31
00:02:19,540 --> 00:02:23,790
the open air.

32
00:02:23,790 --> 00:02:29,410
While a seismometer recorded vibrations experienced
by the lander itself as the wind moved over

33
00:02:29,410 --> 00:02:34,790
the spacecraft's solar panels.

34
00:02:34,790 --> 00:02:40,060
InSight landed on Mars Nov. 26, and is the
first mission to study the deep interior of

35
00:02:40,060 --> 00:02:45,570
the Red Planet – to help us learn more about
how it and other rocky celestial bodies formed

36
00:02:45,570 --> 00:02:50,510
– including Earth and our Moon.

37
00:02:50,510 --> 00:02:56,340
NASA joined the rest of the nation this past
week to mourn the passing of President, George

38
00:02:56,340 --> 00:03:00,980
Herbert Walker Bush – the nation’s 41st
President.

39
00:03:00,980 --> 00:03:07,370
In a statement, our administrator, Jim Bridenstine
said the late President’s Space Exploration

40
00:03:07,370 --> 00:03:12,890
Initiative helped us to think big and long-term
about space.

41
00:03:12,890 --> 00:03:19,400
And his impassioned vision still can be felt
in our ongoing efforts to send humans farther

42
00:03:19,400 --> 00:03:24,700
into the solar system to live and work for
extended periods.

43

00:03:24,700 --> 00:03:29,770
President George H.W. Bush – was 94 years old.

44
00:03:29,770 --> 00:03:33,800
That’s what’s up this week @NASA …