
TW@N
THIS WEEK @ NASA

1
00:00:00,960 --> 00:00:03,200
Perseverance sends more sounds from Mars …

2
00:00:03,200 --> 00:00:06,320
The rocket boosters for\h
Artemis I are all stacked up …

3
00:00:06,320 --> 00:00:11,040
And preview of a weekend spacewalk … a few of the\h
stories to tell you about – This Week at NASA!

4
00:00:14,160 --> 00:00:17,120
Our Mars Perseverance rover\h
has beamed back more sounds\h\h

5
00:00:17,120 --> 00:00:20,960
it has collected since landing\h
on the Red Planet on Feb. 18.\h\h

6
00:00:20,960 --> 00:00:29,881
In this latest batch of recordings made by the\h
rover’s SuperCam instrument, you can hear …

7
00:00:29,881 --> 00:00:30,640
“(Laser impacting rock) Tick, Tick, Tick, Tick …”

8
00:00:30,640 --> 00:00:34,800
The first acoustic recording of a\h
rock on Mars being struck by a laser.\h\h

9
00:00:34,800 --> 00:00:39,040
The rock was given the name\h
“Máaz,” the Navajo word for Mars.\h\h

10
00:00:39,040 --> 00:00:43,840
Some of the zapping sounds from the laser impacts\h
are slightly louder than others. The variations in\h\h

11
00:00:43,840 --> 00:00:48,800

the intensity of the sounds can give researchers\h
clues about the physical structure of the target.

12
00:00:55,520 --> 00:01:00,480
The SuperCam also recorded sounds of Martian\h
wind noise captured while the mast that holds\h\h

13
00:01:00,480 --> 00:01:05,200
the rover's microphone was still stowed.\h
The muffled sounds are reminiscent of what\h\h

14
00:01:05,200 --> 00:01:11,120
one might hear listening into a seashell at the\h
beach, or with a hand cupped over an ear. You can\h\h

15
00:01:11,120 --> 00:01:17,040
check out these sounds for yourself, along with\h
other sounds of exploration at nasa.gov/sounds.

16
00:01:18,080 --> 00:01:22,240
Engineers at our Kennedy Space Center have\h
completed stacking the Space Launch System,\h\h

17
00:01:22,240 --> 00:01:27,760
or SLS, solid rocket boosters for our uncrewed\h
Artemis I mission around the Moon and back.\h\h

18
00:01:27,760 --> 00:01:32,800
The twin booster segments were stacked onto the\h
mobile launcher over the course of several weeks.\h\h

19
00:01:32,800 --> 00:01:36,160
Following a successful hot-fire\h
test at our Stennis Space Center,\h\h

20
00:01:36,160 --> 00:01:41,040
now targeted for March 18, the SLS's\h
core stage will be shipped to Kennedy\h\h

21
00:01:41,040 --> 00:01:45,920

and stacked with the boosters and our Orion\h
spacecraft in preparation for Artemis I.

22
00:01:46,880 --> 00:01:52,320
The International Space Station’s fifth spacewalk\h
of the year is slated for March 13. During the\h\h

23
00:01:52,320 --> 00:01:57,680
outing, NASA’s Michael Hopkins and Victor Glover\h
are scheduled to service and relocate some jumper\h\h

24
00:01:57,680 --> 00:02:03,520
cables of the station’s thermal control system,\h
continue some work from a Jan. 27 spacewalk, and\h\h

25
00:02:03,520 --> 00:02:08,640
work on some other tasks. The outing is the fourth\h
spacewalk for Glover and the fifth for Hopkins.

26
00:02:09,680 --> 00:02:15,680
NASA astronaut Mark Vande Hei has been assigned to\h
the International Space Station’s Expedition 64/65\h\h

27
00:02:15,680 --> 00:02:22,160
crew. He and cosmonauts Oleg Novitskiy and Pyotr\h
Dubrov of the Russian space agency Roscosmos,\h\h

28
00:02:22,160 --> 00:02:26,320
are scheduled to launch April 9 from\h
the Baikonur Cosmodrome in Kazakhstan.

29
00:02:27,280 --> 00:02:32,480
A collaboration between NASA, the U.S. Department\h
of Agriculture, and George Mason University\h\h

30
00:02:32,480 --> 00:02:37,600
is making high-resolution NASA data on\h
soil moisture available to agricultural\h\h

31
00:02:37,600 --> 00:02:43,520

and natural resources professionals, who use soil\h
moisture and other data to plan crop planting,\h\h

32
00:02:43,520 --> 00:02:48,960
forecast yields, track droughts or floods, and\h
improve weather forecasts. The Crop Condition\h\h

33
00:02:48,960 --> 00:02:54,480
and Soil Moisture Analytics tool makes data from\h
our Soil Moisture Active Passive mission and the\h\h

34
00:02:54,480 --> 00:02:59,520
Moderate Resolution Imaging Spectroradiometer\h
instrument available in a user-friendly format.

35
00:03:00,640 --> 00:03:05,760
We teamed with American Aerospace Technologies\h
Inc. for a recent demonstration flight\h\h

36
00:03:05,760 --> 00:03:11,520
to simulate aerial inspections of gas and\h
petroleum pipelines. NASA, the Federal Aviation\h\h

37
00:03:11,520 --> 00:03:16,560
Administration, and three industry partners are\h
working together on demonstrations like this,\h\h

38
00:03:16,560 --> 00:03:21,440
to show potential commercial applications of\h
different sized unmanned aircraft systems used\h\h

39
00:03:21,440 --> 00:03:26,960
in various locations and airspace classes. This\h
research aims to accelerate the safe integration\h\h

40
00:03:26,960 --> 00:03:31,840
of these aerial vehicles for commercial\h
applications into the national airspace system.