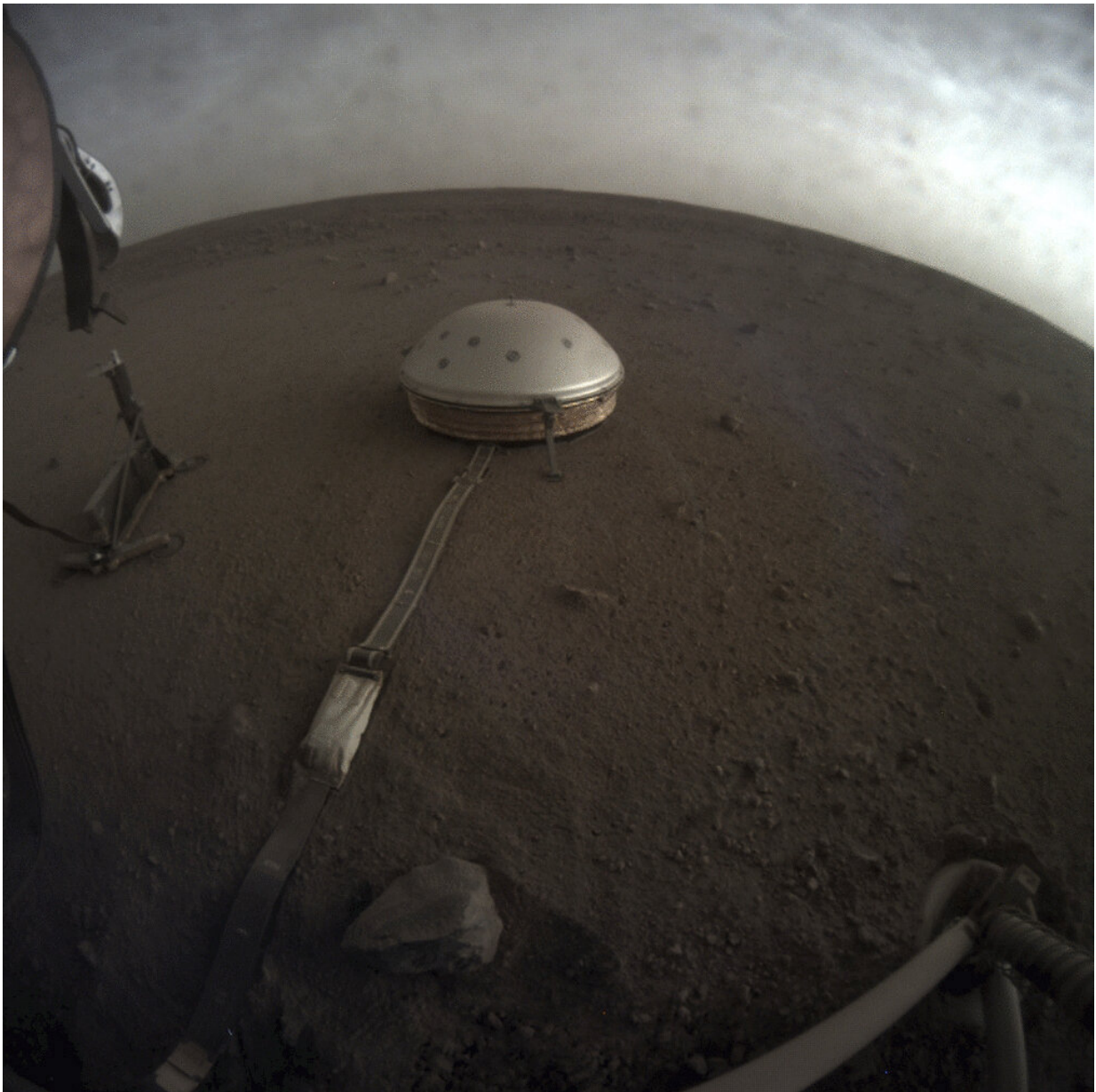


NASA lander captures marsquakes, other Martian sounds

October 1 2019, by Marcia Dunn



This April 25, 2019 photo made available by NASA shows the InSight lander's dome-covered seismometer, known as SEIS, on Mars. On Tuesday, Oct. 1, 2019, scientists released an audio sampling of marsquakes and other sounds recorded by the probe. (NASA/JPL-Caltech via AP)

NASA's InSight lander on Mars has captured the low rumble of marsquakes and a symphony of other otherworldly sounds.

Scientists released an audio sampling Tuesday. The sounds had to be enhanced for humans to hear.

InSight's seismometer has detected more than 100 events, but only 21 are considered strong marsquake candidates. The rest could be marsquakes—or something else. The French seismometer is so sensitive it can hear the Martian wind as well as movements by the lander's [robot arm](#) and other mechanical "dinks and donks " as the team calls them.

"It's been exciting, especially in the beginning, hearing the first vibrations from the lander," said Imperial College London's Constantinos Charalambous, who helped provide the audio recordings. "You're imagining what's really happening on Mars as InSight sits on the open landscape," he added in a statement.

InSight arrived at Mars last November and recorded its first seismic rumbling in April.

A German drilling instrument, meanwhile, has been inactive for months. Scientists are trying to salvage the experiment to measure the planet's [internal temperature](#).

The so-called mole is meant to penetrate 16 feet (5 meters) beneath the

Martian surface, but has managed barely 1 foot (30 centimeters). Researchers suspect the Martian sand isn't providing the necessary friction for digging, causing the mole to helplessly bounce around rather than burrow deeper, and to form a wide pit around itself.



Clouds drift over the dome-covered seismometer, known as SEIS, belonging to NASA's InSight lander, on Mars. Credit: NASA/JPL-Caltech

More information: soundcloud.com/nasa/quake-sol-173
soundcloud.com/nasa/quake-sol-235
soundcloud.com/nasa/dinks-and-donks-sample

© 2019 The Associated Press. All rights reserved.

Citation: NASA lander captures marsquakes, other Martian sounds (2019, October 1) retrieved 1 May 2024 from <https://phys.org/news/2019-10-nasa-lander-captures-marsquakes-martian.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.