

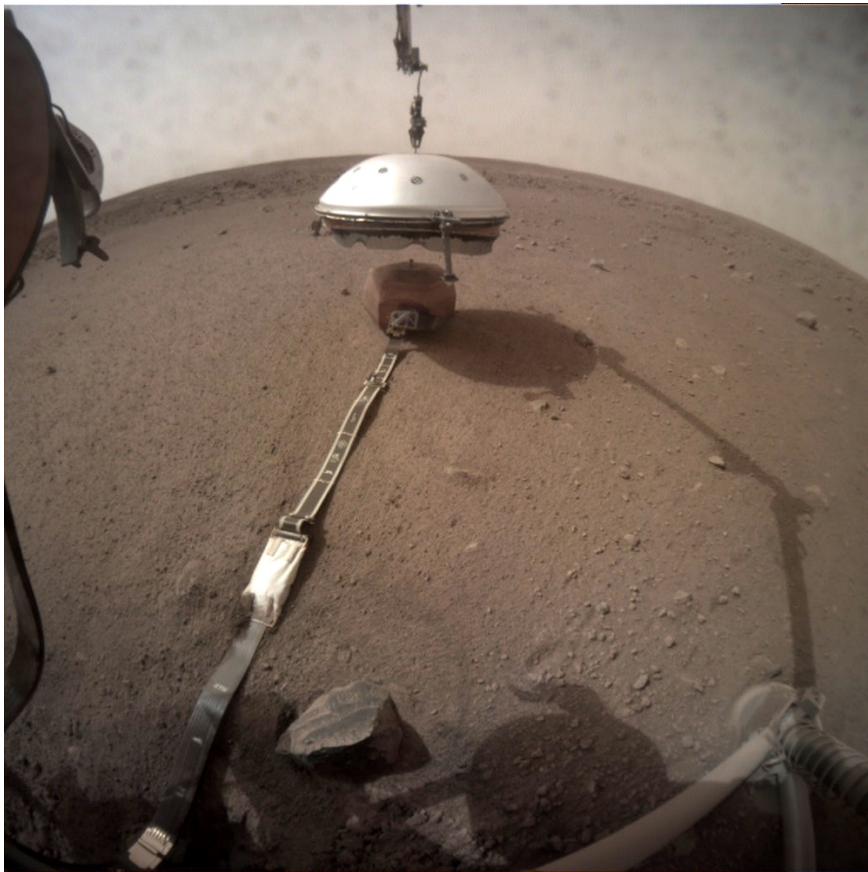
SEIS on Mars : Deployment challenge et first observations

Philippe Lognonné

*SEIS Principal Investigator, NASA InSight mission to Mars
Professor, Université Paris Diderot and Institut Universitaire de France
Institut de Physique du Globe de Paris, France*

InSight landed on Mars on November, 26th, 2018 and deployed on the Martian in the following 2 months the SEIS experiment, a 6 axis seismometer protected by several layers of thermal protection in addition to a Wind and Thermal Shield. This robotic deployment is a first in Planetary Science and it is also the first time that seismometers are deployed on the Martian Surface, as the previous attempt, made on the two Viking landers provided only seismic measurements on the deck of one of the lander, with large wind sensitivity.

We present the challenge faced successfully by the InSight team in the SEIS deployment and provide an overview of the first observations made by the experiment.



SEIS a few minutes before the Wind and Thermal Shield final deployment (© NASA/JPL)