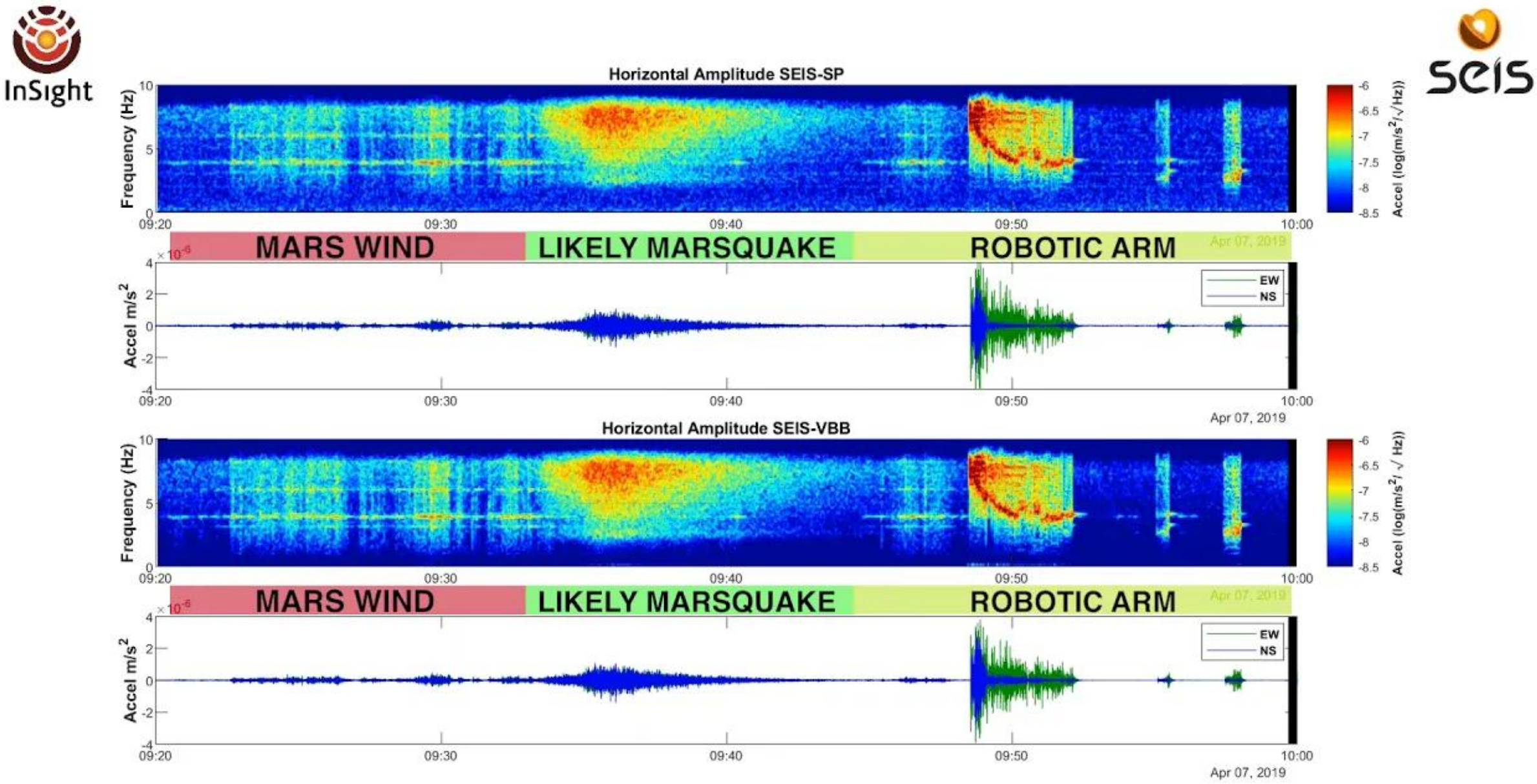
InSight
SEIS
Horizontal Amplitude SEIS-SP
Frequency (Hz)
Accel (log(m/s²/√Hz))
MARS WIND
LIKELY MARSQUAKE
ROBOTIC ARM
Apr 07, 2019
Accel m/s²
EW
NS
09:20
09:30
09:40
09:50
10:00
Horizontal Amplitude SEIS-VBB
Frequency (Hz)
Accel (log(m/s²/√ Hz))
MARS WIND
LIKELY MARSQUAKE
ROBOTIC ARM
Apr 07, 2019
Accel m/s²
EW
NS
09:20
09:30
09:40
09:50
10:00
Apr 07, 2019

1
00:00:00,634 --> 00:00:12,980
[Mars wind]

2
00:00:12,980 --> 00:00:24,424
[Likely marsquake]

3
00:00:24,424 --> 00:00:40,107
[Robotic arm]

4
00:00:40,107 --> 00:00:43,377
This video illustrates a seismic
event detected by NASA's InSight

5
00:00:43,377 --> 00:00:46,313
on April 6, 2019, the 128th
Martian day, or sol, of the

6
00:00:46,313 --> 00:00:48,815
mission. The sounds were created
from ground vibrations measured

7
00:00:48,815 --> 00:00:51,585
by the spacecraft's seismometer,
called the Seismic Experiment

8
00:00:51,585 --> 00:00:54,888
for Interior Structure (SEIS),
when it measured three distinct

9
00:00:54,888 --> 00:00:57,424
events: Martian wind; the
seismic event (likely

10
00:00:57,424 --> 00:01:00,260
marsquake); and the spacecraft's
robotic arm as it moves to take

11
00:01:00,260 --> 00:01:01,228
pictures. The audio was produced

from two sets of sensors on the

12
00:01:01,228 --> 00:01:03,130
spacecraft's seismometer. Audio
from both sets of sensors have

13
00:01:03,130 --> 00:01:05,132
been sped up by a factor of 60;
the actual vibrations on Mars