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Western Regional Group

The Seismicity of Mars

**Dr Anna Horleston,
NASA InSight Mission to Mars & University of Bristol**

Tuesday 17th May 2022

Hybrid Talk: opens at 6:15pm for 6:30pm Start

The Western Regional Group is pleased to welcome Dr Anna Horleston who will discuss her work in the NASA InSight Mission to Mars as Co-lead Marsquake Service Frontline Team.

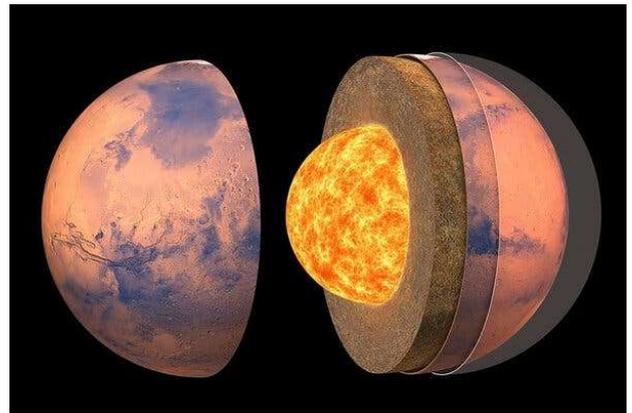
NASA's InSight lander has been operational on Mars since November 2018. The first dedicated geophysics mission to Mars, InSight deployed a highly sensitive seismometer onto the surface of the red planet in early 2019 and the lander has been streaming near-continuous seismic data ever since. The Marsquake Service has been analysing that data and has produced a catalogue of Martian seismicity, currently containing over 1300 events. Marsquakes are quite different from earthquakes but they have still revealed a lot about the interior of Mars, including the size and composition of the core. In this talk I'll describe the mission, the seismic events seen to date and what they have revealed about the interior structure of Mars.

Dr Anna Horleston is a senior research associate at the University of Bristol and co-leads the Marsquake service for the NASA InSight mission. She has a background in astrophysics and seismology and has spent many years deploying seismic instruments all over the Earth to study everything from near surface processes and induced seismicity to deep Earth structure. Working with NASA she misses fieldwork but still can't quite believe that she gets to look at data from another planet every day.

Hybrid Event! When: 17th May 2022 6:30 PM London. *Entry is free, non-members welcome.*

In-person: The Hub, 500Aztec West, Almondsbury, Bristol, BS32 4RZ. Room open from 6pm.

Zoom Details: <https://us02web.zoom.us/meeting/register/tZAtde-tqj8sEtRy9Fn530a6LS1efa4KLCAb>



A seismometer being deployed on the surface of Mars

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