Modelling the Characteristics of Infrasound Signals as Detected from a Balloon Platform: Earth and Venus Applications

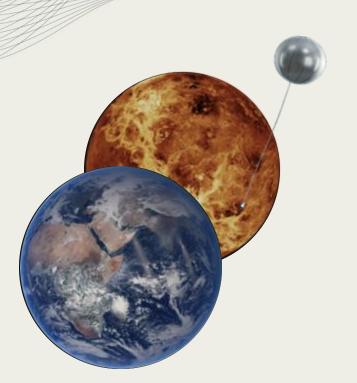


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Objectives

- 1) Hunga Tonga-Hunga Ha'apai eruption: Long range infrasound modelling vs Strateole-2 balloons & IMS data
- 2) Investigate waveguides for Venus volcano infrasound to balloons

Findings

- Taking HTHH plume height into account ⇒ Predict amplitudes
- Ray-tracing ⇒ Global infrasound waveguides on Venus at balloon altitudes
- Full wave modelling ⇒ Indicate ducting to the ground

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