



ETI Annual Workshop, March 29 – 30, 2022



## Hunga Tonga Eruption Data Fusion

Milton Garces

University of Hawaii at Manoa

[milton@isla.hawaii.edu](mailto:milton@isla.hawaii.edu)

### **Abstract:**

The massive Hunga Tonga eruption on 2022-01-15 04:14:45Z generated exceptional infrasound waves trapped on Earth's surface. An event of this magnitude has not been observed since Tsar Bomba (USSR, 50 MT, 1961), and is likely to be on par with the 1883 eruption of Krakatoa (200 MT). This presentation concentrates on our team's efforts to aggregate and curate global data from heterogeneous sensor networks deployed throughout Earth, and discusses how to redirect signal processing methods and algorithms designed for timescales of seconds to timescales of hours and days.