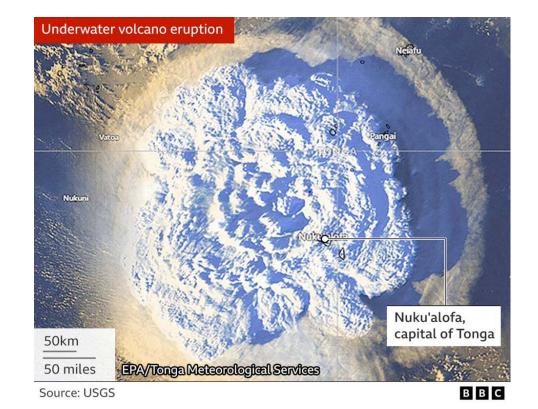
Weather Satellite Images

 https://zoom.earth/#view=-20.6,-175.5,3.86z/date=2022-01-15,13:10,+8/layers=radar:off

https://twitter.com/i/status/1482863990191443970



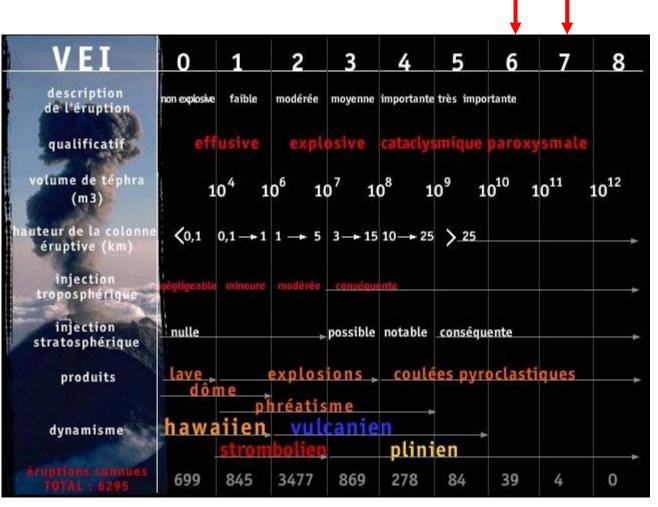
Volcanic Explosivity Index

VOLCANOES

Where are the world's volcanoes?

There are some 1,350 potentially active volcanoes around the world, Many are located along a 40,000km arc known as the "Ring of Fire."



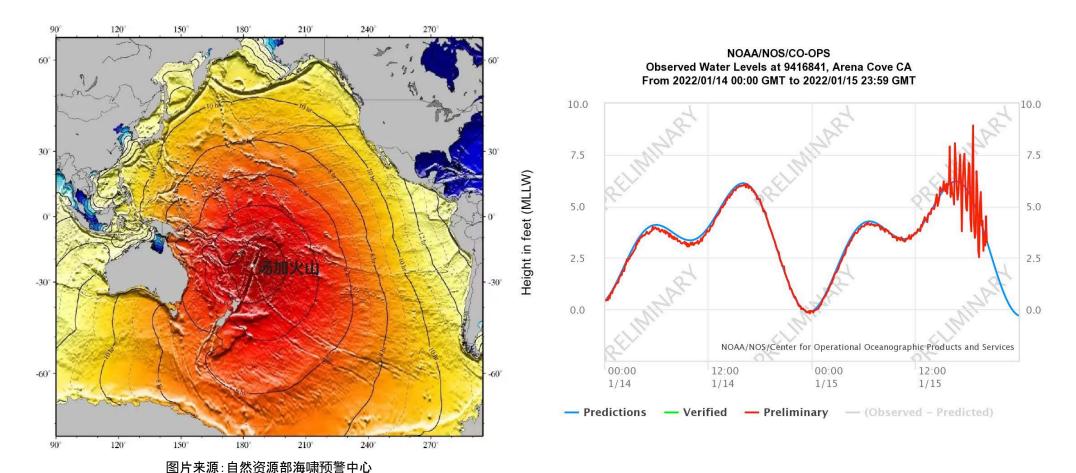


Find This Volcano

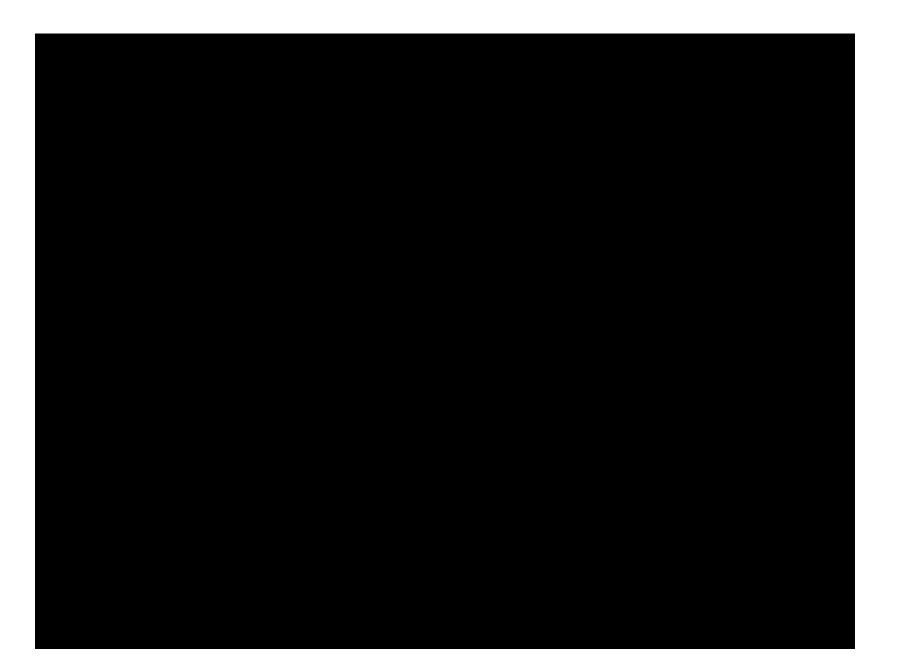
- Go to GeoMapApp
- Also check Global Volcanic Program

Tsunami Observations

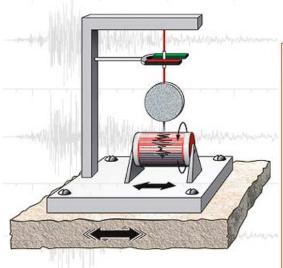
- https://news.sky.com/story/tonga-tsunami-alert-as-undersea-volcano-eruption-causes-large-waves-to-hit-island-12516351
- Tidal gauge data can be obtained: https://www.psmsl.org/data/obtaining/

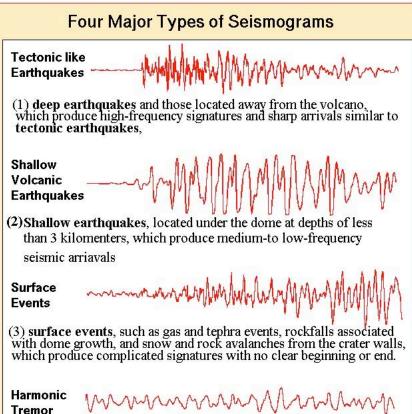


Tsunami Modeling



Seismic wave & atmospheric shock wave





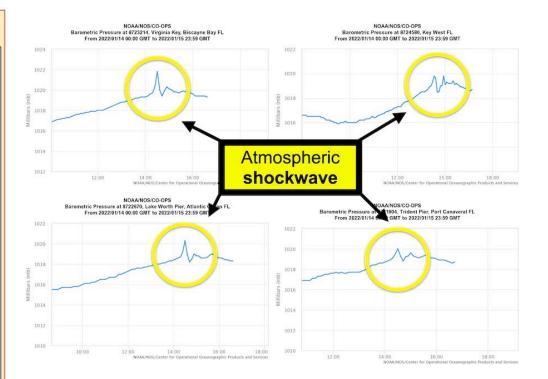
(4) Harmonic tremor, which is a long-lasting, very rhythmic signal whose origin is not well understood but which is often associated

10 Seconds

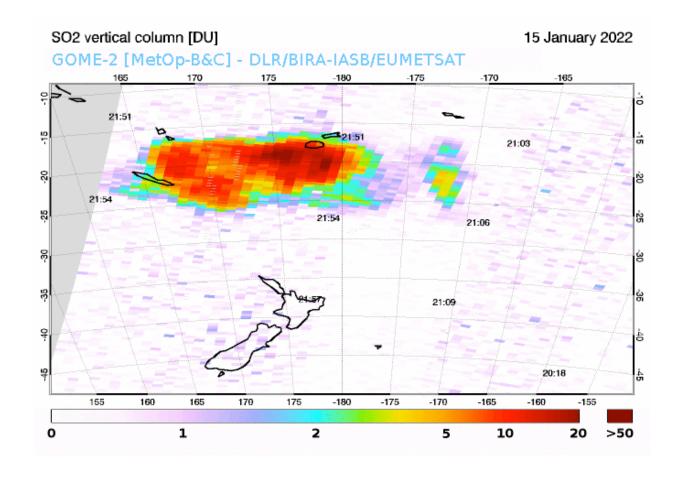
Topinka, USGS/CVO, 1997, Modified from: Brantley and Topinka, 1984, Earthquake Information Bulletin

with active volcanoes.

■USGS

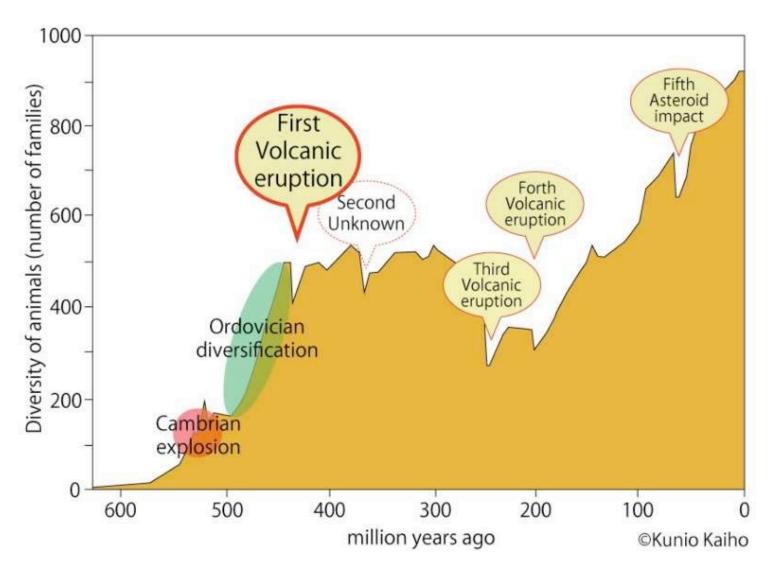


Long-term Climate Effects?



- Limited
- Volcanic ashes

Mass Extinction?



Ref: Jones, D. S., Martini, A. M., Fike, D. A., & Kaiho, K. (2017).