

# WHAT ARE THE RISKS OF TSUNAMI GENERATED BY OTHER VOLCANOES IN THE PACIFIC

---

OCEAN – UN DECADE- SAFE OCEANS 6<sup>TH</sup> APRIL 2022

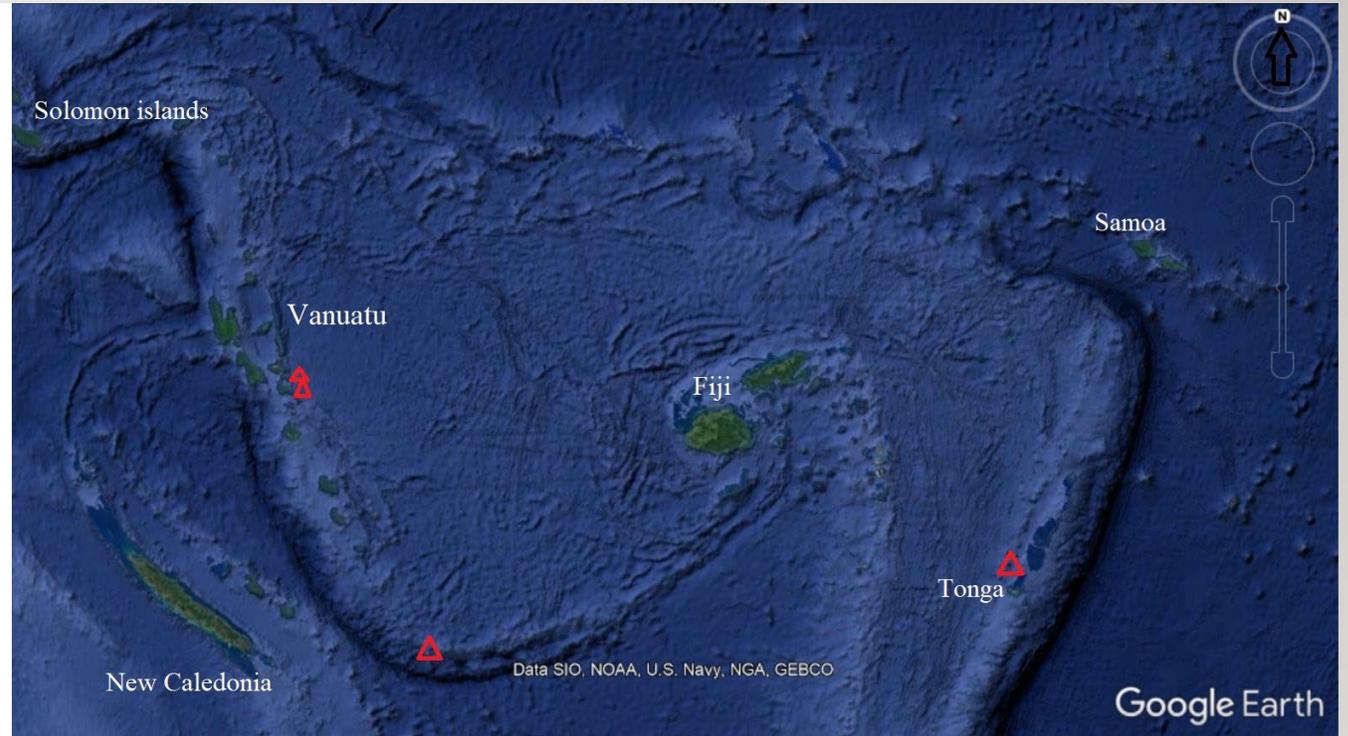


# THE RING OF FIRE -

OVER 800 VOLCANOES ON THE RING OF FIRE.

OVER 500 IN ASIA AND PACIFIC INCLUDING SUBMARINE VOLCANOES

IN THE SOUTH WEST PACIFIC –SUBMARINE VOLCANOES IN TONGA AND VANUATU

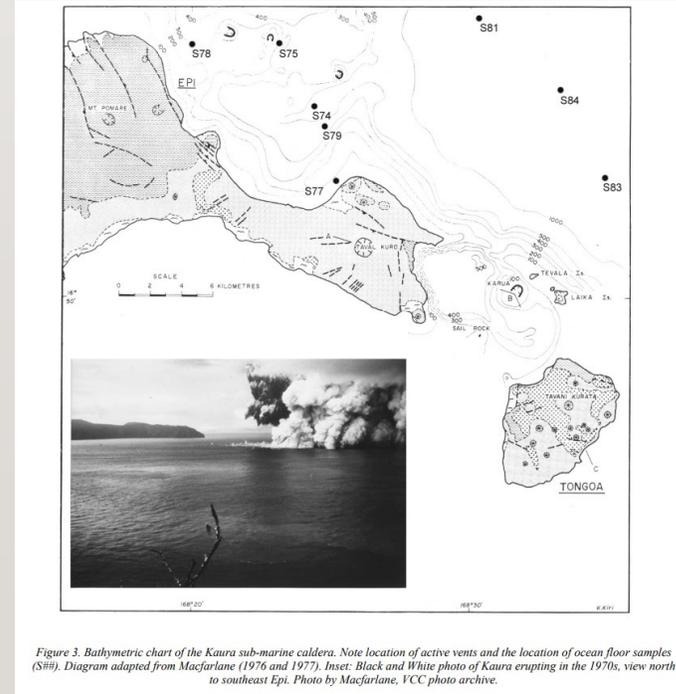


Tsunami can be generated by:

1. phreatic eruptions – trigger wider tsunami inundation
2. Volcano landslide- Localised tsunami generated

# KUWAE ERUPTION – 1452 AD

- 12 km long, 6 km wide oval-shaped submarine caldera between the islands of Epi and Tongoa
- 32 to 39 km<sup>3</sup> of erupted material occurred at Kuwae.
- The caldera floor itself dropped anywhere from 650 to 1,100 meters
- overall size put it as the 7th largest caldera eruption in the last 10,000 years



- Evidence of tsunami generated by Kuwae in North Territory of New Zealand and Wallis and Futuna.
- Evidence of population migration from Kuwae to Efate
- Affected the world Climate

# UNDERSTANDING THE PAST TO PREDICT THE FUTURE

---

