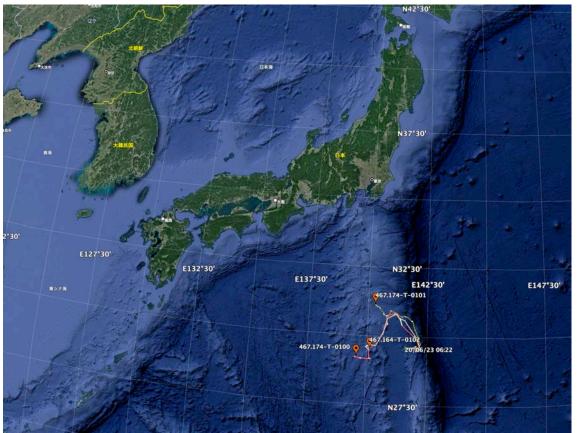
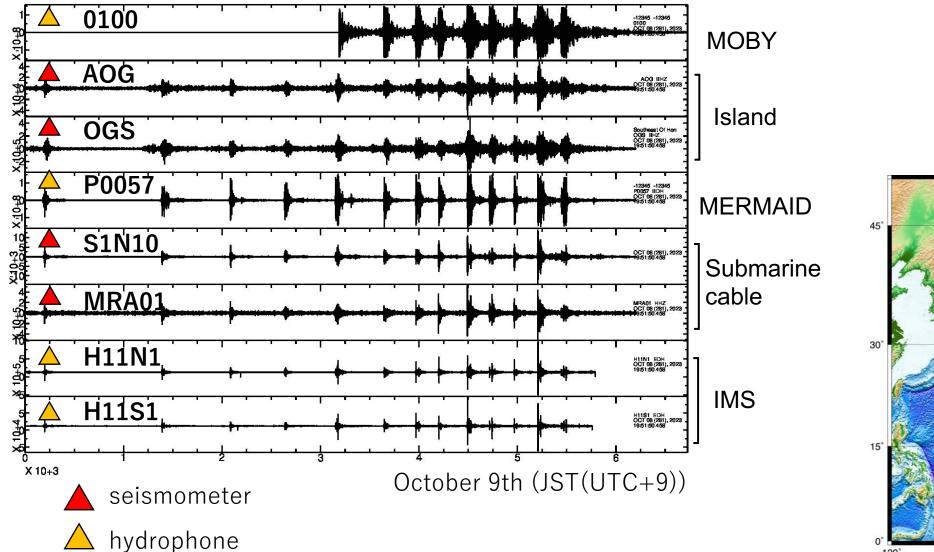
## June, 2023

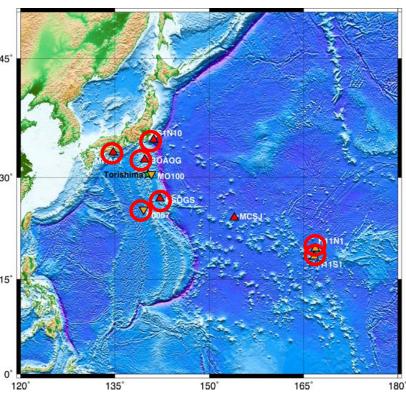
## 3 MOBYs (1 PRINCETON and 2 JAMSTEC) were launched

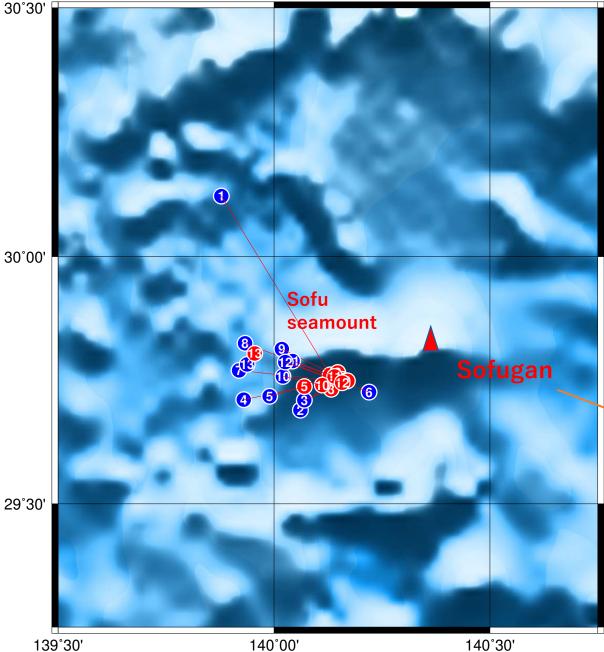


MOBY is a float equipped with a CTD and a hydrophone. One of JMATEC MOBY is equipped with only CTD.

In the morning of October 9th Japan time, a tsunami was observed along the Pacific coast of Japan even though no large earthquake was observed. However, before the tsunami, strong T-phases were repeatedly observed.







13 T-phase events were relocated using relative traveltimes between every two stations of the peaks on enveloped waveforms.

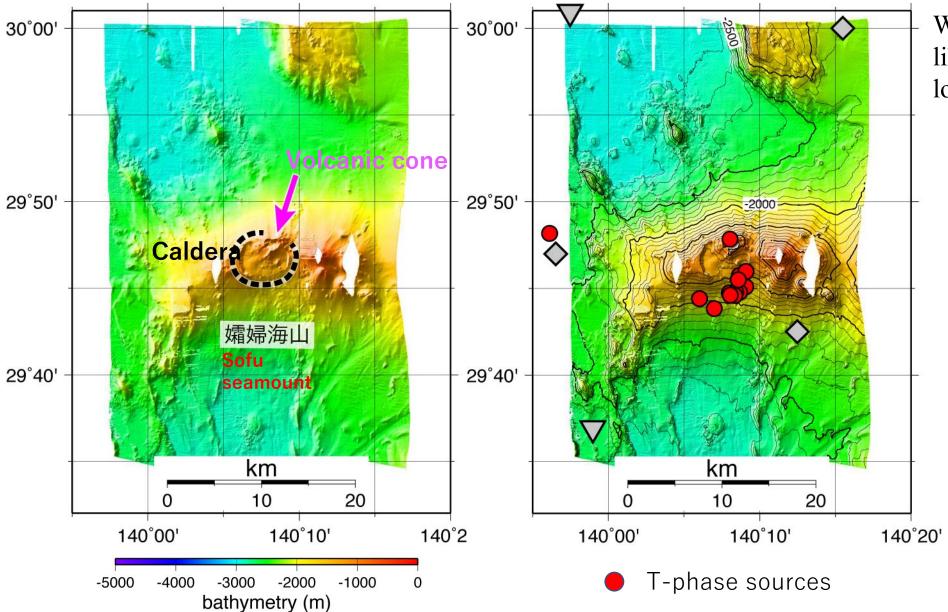
Relcated events are concentrated within a circle with a diameter of 10 km except for the 13<sup>th</sup> event.

JAMSTEC suddenly decided to survey this area where is Sofu seamount is located on the west of Sofugan

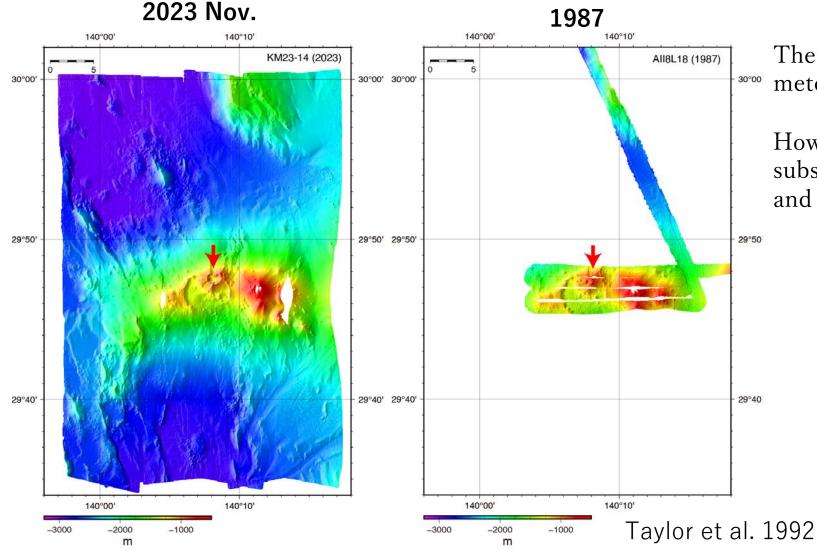
USGS
Relocated using T-phase relative traveltimes



Multi beam survey revealed the detailed bathymetry.



We discovered a calderalike terrain. T-phase sources locate around the caldera. But..., in fact, a survey of this area was conducted 36 years ago. And a caldera and volcanic cone were found.

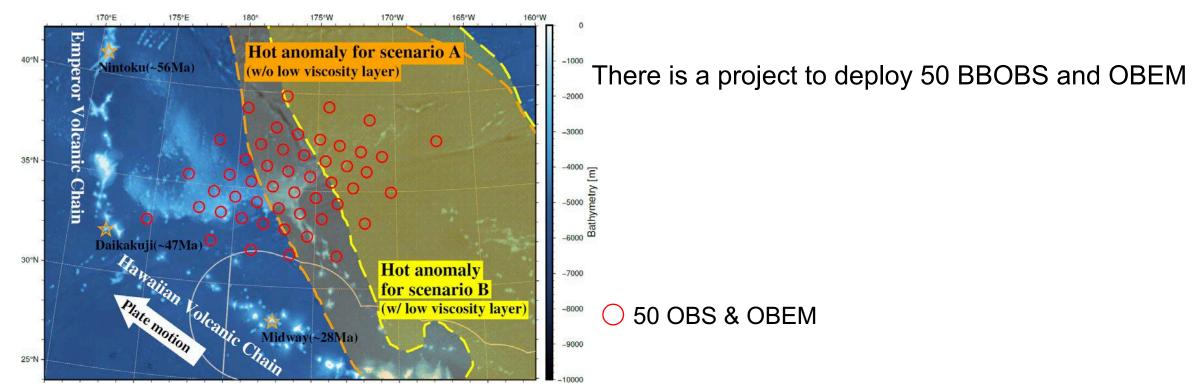


There is a subsidence by several hundred meters at the center of the volcanic cone.

However We don't know whether the subsidence is related to the T-phases and Tsunami yet in October 2023.

## Plan

 In 2025, 4 MERMAIDs will be launched around the junction between Hawaiian and Emperor volcanic chains



• In May 2024, I intend to apply for a Japanese scientific fund of up to 200 million Japanese yen. But I don't have a solid idea yet. I am looking for ideas and collaborators.