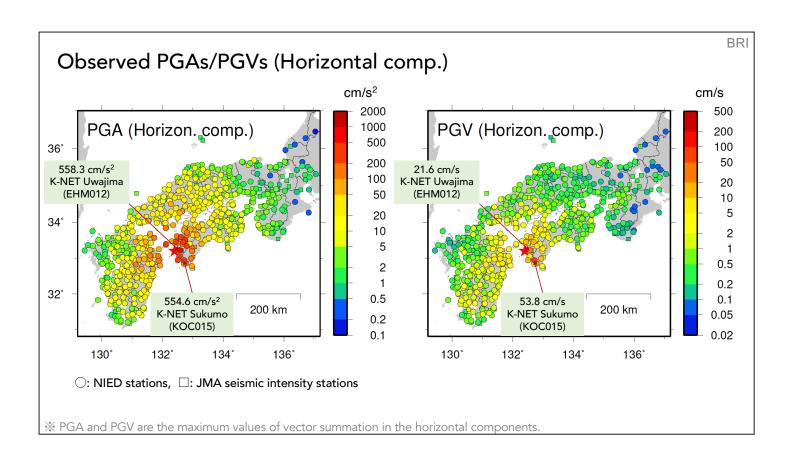
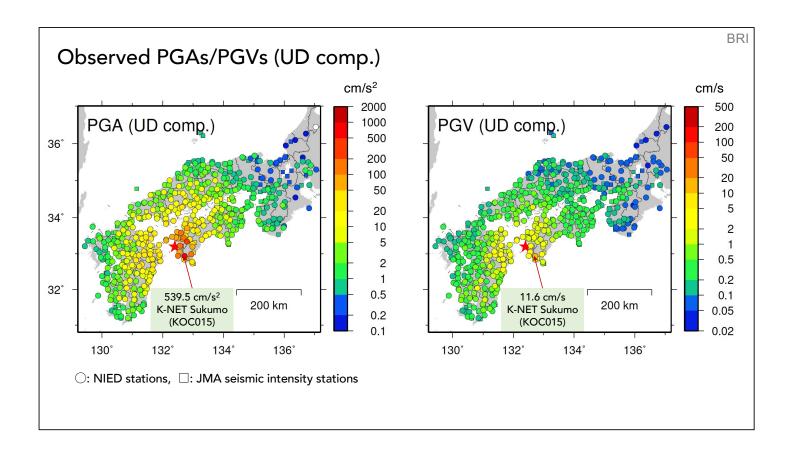
Strong Ground Motions

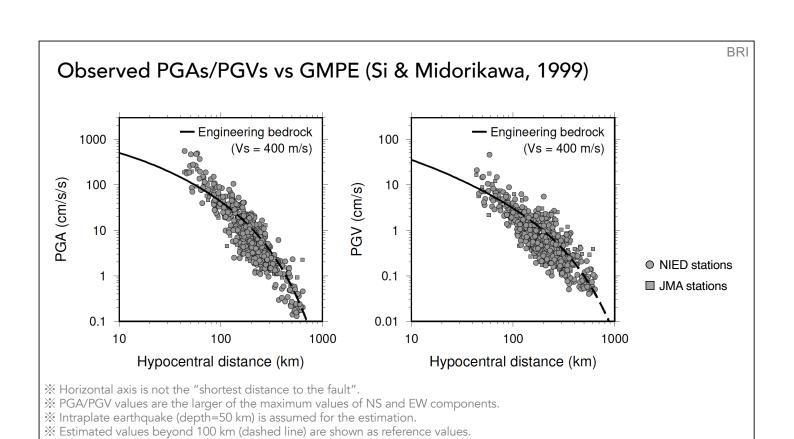
Earthquake in Bungo Channel on April 17, 2024 (Mw6.2)

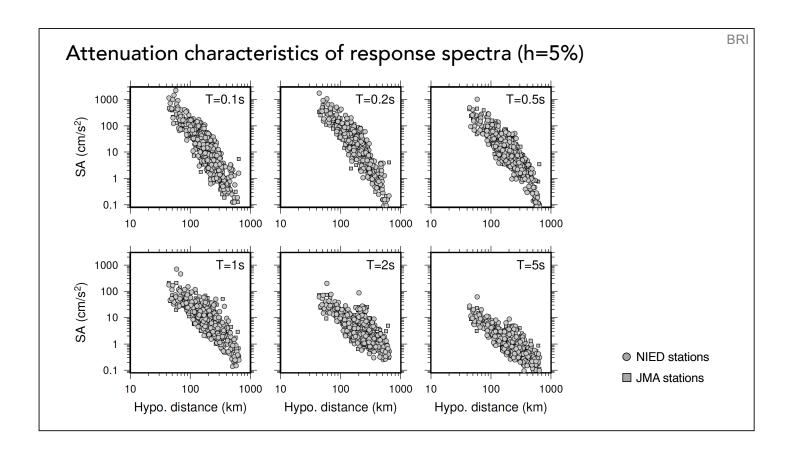
IISEE, Building Research Institute

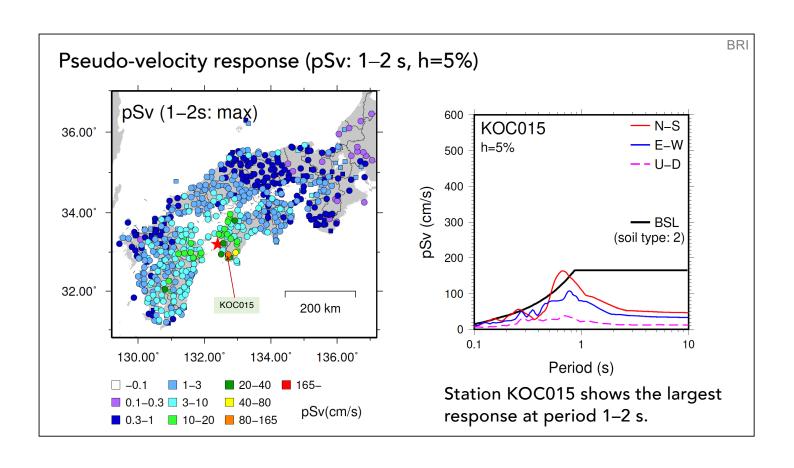
This report contains preliminary analysis results.

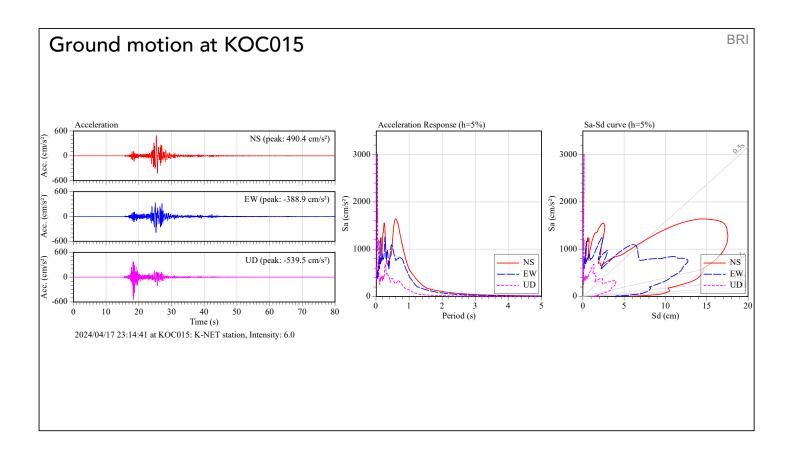


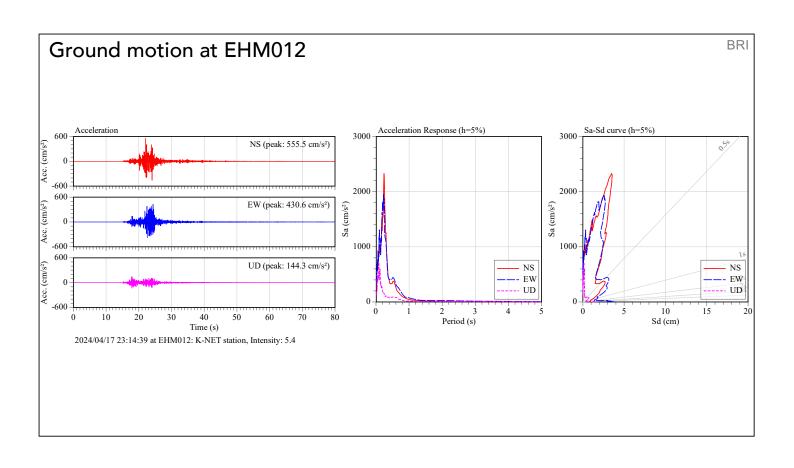


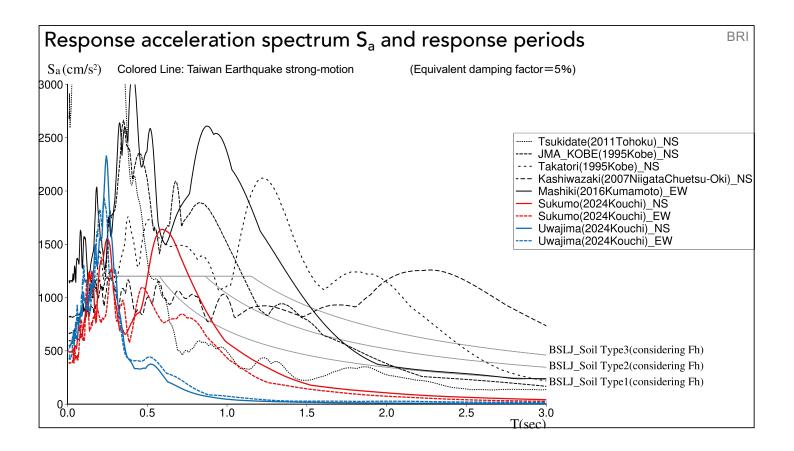


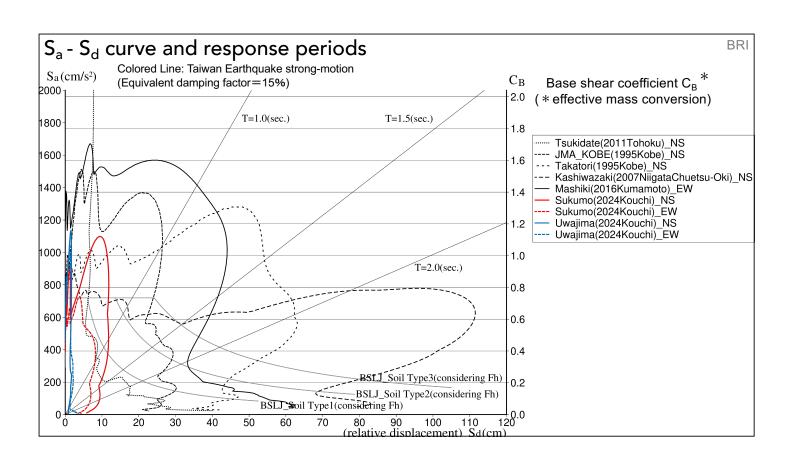












BRI

Summary

- K-NET station KOC015 (Sukumo) showed larger PGA and PGV.
- The response acceleration (Sa) of the North-South (NS) components of KOC015 (Sukumo) showed large values at around the period of 0.5 s.
- From the Sa-Sd curve assuming a 15% equivalent damping ratio, the Sa-Sd shapes of this earthquake were smaller than past major earthquakes in Japan.

Acknowledgments:

We used K-NET and KiK-net strong-motion data provided by the National Research Institute for Earth Science and Disaster Resilience; NIED), Japan (https://www.doi.org/10.17598/NIED.0004) We also used strong-motion data from the Japan Meteorological Agency (JMA) seismic intensity stations.

We used hypocenter information determined by NIED Hi-net. Response spectra were calculated using the subroutine program developed by Osaki (1994). Figures were prepared using Generic Mapping Tools (GMT: Wessel and Smith, 1998).

We used strong motion data provided by NIED (K-NET and KiK-net), JMA, and RTRI for past strong motion in Japan. Sa-T and Sa-Sd were calculated using the View Wave by Kashima, BRI.