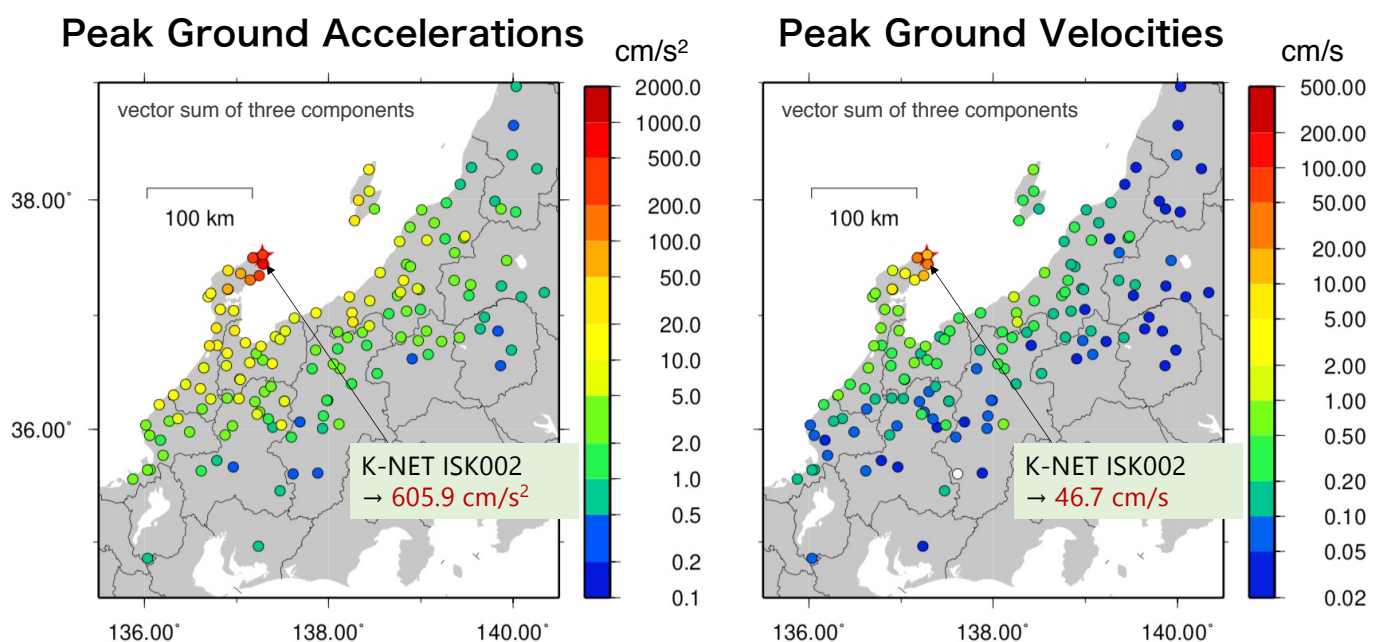


Strong Ground Motions (NIED K-NET, KiK-net)

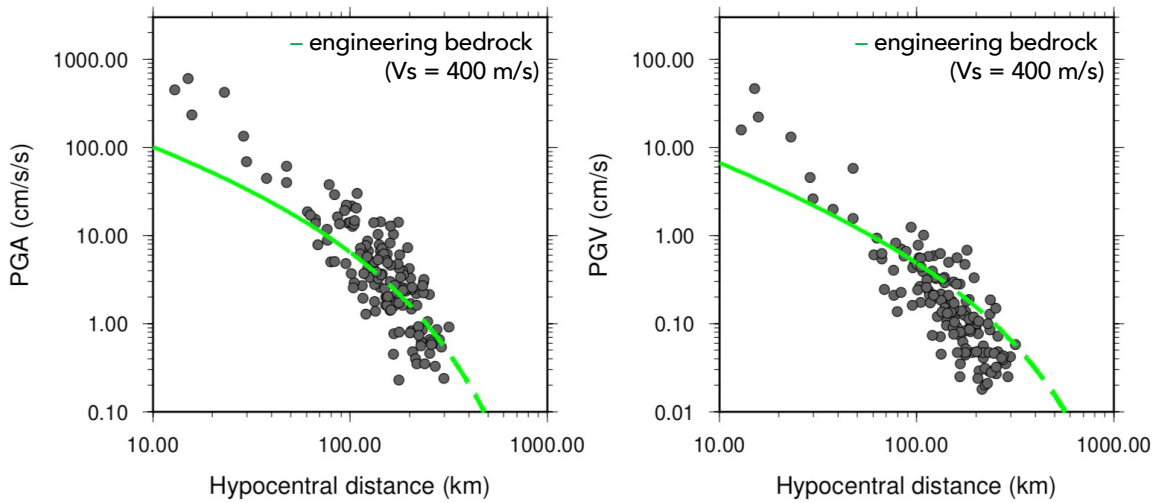
IISEE, Building Research Institute

2022/6/22

NIED Strong-motion data (K-NET, KiK-net)



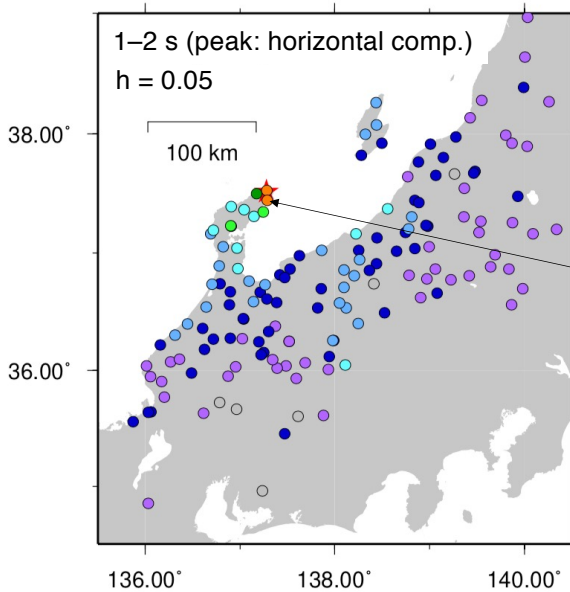
Observed PGAs/PGVs vs GMPE (Si and Midorikawa, 1999)



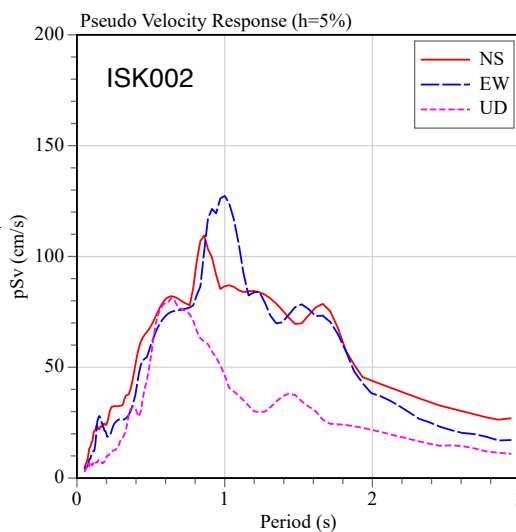
- Four stations within 20 km (hypocentral distances of <25 km).
- PGAs and PGVs are underestimated at the four closest stations.

※ Hypocentral distance is shown in the horizontal axis (not “shortest distance to the fault”).
 ※ Crustal earthquake (depth=12.8 km) is assumed for the estimation.
 ※ Estimated values beyond 100 km (dashed line) are shown as reference values.

Pseudo-velocity Response Spectra (pSv; 1-2 s)



Maximum response: K-NET station ISK002 (Shoin)



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Summary

- Ground motions of JMA intensity of >4 were observed in the Noto region, Ishikawa Prefecture.
- The maximum PGA, PGV, and maximum pseudo velocity response (1–2 s) were recorded at K-NET station ISK002 (Shoin), at which JMA seismic intensity of 6-lower was observed.

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