

## Analogue Model Experiments of Accretionary Prism (3); Synthesis of seismic reflection data and imaging

# Kazuya Shiraishi[1]; Kokoro Kaneda[1]; Naoki Nagamura[2]; Yasuhiro Yamada[3]; Toshifumi Matsuoka[4]

[1] Civil and Earth Resources Eng., Kyoto Univ.; [2] Civil and Earth Resources Eng., Kyoto Univ; [3] Civ. Earth Res. Eng., Kyoto Univ.; [4] Kyoto Univ

<http://earth.kumst.kyoto-u.ac.jp>

We synthesize seismic reflection data from results of analogue experiments with a sandbox simulating accretionary process. We build velocity models from analyzing reproduced sections. Seismic data sets are synthesized by a FDM wave modeling using an exploding plodding reflector model. Then, we applied Kirchhoff depth-migration to the synthetic seismograms for imaging the structure in the accretionary prism.