

## Inhomogeneous Structure in and around the Focal Area of 2000 Western Tottori Earthquake by Seismic Array Observations

# Youichi ASANO[1], Ayako Nakamura[2], Shuichiro Hori[1], Toshio Kono[3], Kouichi Nida[4], Tomomi Okada[1], Norihito Umino[1], Akira Hasegawa[2], Dapeng Zhao[5], Kaoru Takizawa[6]

[1] RCPEV, Tohoku Univ., [2] RCPEV, Graduate School of Sci., Tohoku Univ., [3] KGJ, Graduate School of Sci., Tohoku Univ., [4] RCPEV Tohoku Univ, [5] Earth Sci., Ehime Univ, [6] Earth and Environmental Sci., Yamagata Univ

After the occurrence of 2000 Western Tottori earthquake, we deployed four small aperture arrays in its focal area to investigate inhomogeneous structure of the crust. Distinct later phases about 0.5-1.5 seconds after direct P-wave arrivals were detected in vertical component seismograms at two northern arrays from aftershocks in the northern part of the focal area. Slowness vectors estimated from semblance analyses suggest that the phases are P-P or S-P scattered waves caused by inhomogeneous structures near the northern part of the focal area. Reflected S-waves perhaps from the Moho were also detected at the two southern arrays.