

## An analysis of long period ground motions observed at western Chugoku district during the 2000 Tottori-ken Seibu earthquake

# Tomoki Hikita[1]

[1] KaTRI

During the 2000 Tottori-ken Seibu earthquake, many strong motion records were obtained at stations of K-NET and KiK-net. Significant later phase with long period are identified in transverse components, and the motions in the period range from 3 to 7 seconds consist of surface waves (Love waves). In order to determine the apparent group velocity and azimuth of Love waves, the semblance analysis is applied to the data of 66 sites at western Chugoku district. To correspond between theoretical dispersion curve based on the PS logging data and the estimated group velocity, the information of deeper subsurface structures is necessary.