The resistivity structure around the focal region of the Western Nagano Prefecture Earthquake

# takafumi kasaya [1], Naoto Oshiman [2], Norihiko Sumitomo [3], Hisashi Utada [4], Sumitomo Norihiko otaki joint electromagnetic observation group
http://www2.rcep.dpri.kyoto-u.ac.jp/~tkasa/

Magneto Tellurics survey were carried out around the focal region of the Western Nagano Prefecture Earthquake. Observation sites are 12 sites and a length of a survey line is 35km. In this region the earthquake swarm has frequently occurred and clear seismic reflector was detected. As a result of 2D resistivity modeling, the low resistivity zone is detected on the center of the observation line. This structure relates to a fault of The Western Nagano Prefecture Earthquake and the lower limit of this structure is 5km. On the other hand, high resistivity zone is detected in the eastern part of a observation line. The lower limit of the high resistivity zone agree with the lower limit of the occurrence of the earthquake.