

Exploration of the subsurface structure across the Atera fault system (preliminary report)

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The Atera fault system, about 70 km length, is a set of active faults. Although many geomorphological and geological investigations have been surveyed, the geophysical one is still poor. TRIES carried out the seismic explorations in Fukuoka town-Sakashita town-Kawaue village (the south line) and Gero town-Kashimo village (the north line) in November, 2000. Vibroseis is used as seismic source. Blasting is also used in the north line. Though the analysis is ongoing, the good record has been obtained, compared to the Byobusan fault survey in 1999 in analogous basement rock exposure region. In addition, gravity survey is also carried out. In our presentation, we will report the preliminary result of both surveys and consider the tectonics of the Tono area.