

Borehole Strong-Motion Observation along the Itoigawa-Shizuoka Tectonic Line

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We have carried out borehole strong-motion observation along the Itoigawa-Shizuoka tectonic line. Two sites are selected in Matsumoto, one is Kanda near the Gofukuji fault and the other is Shimadachi located in the Matsumoto basin. The borehole depths of the stations are 100 and 200 meters for Kanada and Shimadachi, respectively, and we performed velocity measurements of the boreholes. Acceleration seismometers are set up at both borehole and surface, then have started to record ground motion over 0.2 gal triggered at the borehole. We plan to compare the velocity measurements, reflection profiling, and geomagnetic profiling to understand material characteristics of the fault region.