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Deployment of Strong-motion monitoring system for specific active fault earthquake in Miura-Hanto region

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National Research Institute for Earth Science and Disaster Prevention (NIED) deployed a strong-motion monitoring system for specific active fault earthquake in Miura-Hanto region. Each observatory has two strong-motion accelerometers on the surface and at the depth of 50m. The full scale of the accelerometer is up to 8000gal.

A/D conversion is done at the sampling frequency of 400Hz. And 100Hz sampling data is generated in the strong-motion seismograph. Triggered strong-motion data and continuous data for designed interval are stored in the seismograph also continuous data (both of 100Hz and 400 Hz) are transmitted using a continuous data line. A packet length used for transmission is shortened to 0.1s in order to reduce delay of transmission. The seismograph calculates several strong-motion parameters (PGA, PGV, PGD and real-time intensity) continuously for detection of very large earthquakes. NIED plans to use the data from this system to develop of processing method for very fast earthquake early warning system.

Keywords: Strongmotion observation, Strongmotion Seismograph, Active fault, Very fast earthquake early warnig, Realtime intensity