

Receiving System of Realtime Earthquake Information Broadcasted by using Satellite DVB Data Communication System

Shunroku Yamamoto[1]; Shigeki Horiuchi[1]; Hiroaki Negishi[1]; Taku Urabe[2]; Kohichi Uhira[3]

[1] NIED; [2] ERI, Univ. Tokyo; [3] JMA

Realtime earthquake information has been broadcasted by using DVB satellite communication system since 2003 through the joint research between NIED, JMA and ERI. A set of inexpensive hardware make us possible to receive earthquake information (hypocenter, origin time, magnitude etc.) and an alarm signal just a few seconds latter (mostly before S wave arrival) from the detection of the occurrence of large earthquakes. Recently, in addition to earthquake information and observed P wave amplitude data, 20 Hz waveform for nearby 30 stations are added in the broadcasted data, so that we can confirm accuracy of processing data quickly and can use them for some kinds of active control.