Development on the Real-Time Prediction Method of Tsunami, using Tsunami Propagation Effect

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Networks of water pressure gauges have been installed in the Pacific Ocean floor around Japan. To predict rapidly Tsunami in the coastal zone where the depth of water is larger than 50m, we proposed a method convoluting Tsunami observed in the sea area and Tsunami propagation effect by a small fault. To predict Tsunami in the coastal zone where the depth of water is less than 50m, we proposed a method using a small-scale Tsunami simulation. In this study, we investigated the validity of the proposed methods, by applying these methods to numerical data of the 2011 off the Pacific coast of Tohoku earthquake.