

Long-term evaluation of S-net pressure data for real-time tsunami forecasting

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The water pressure gauge data of the Seafloor observation network for earthquakes and tsunamis (S-net) have been released since October 2019 (doi: 10.17598/nied.0007), and an online data request application form have been opened from the website of the ocean bottom earthquake and tsunami observation network of National Research Institute for Earth Science and Disaster Resilience (NIED). On this website, data obtained after August 2016 (for S6 25 stations, after April 2017) can be used for the application, and observation data has been accumulated over a period of three years and more. Therefore, we evaluated the range of between about 100 seconds and several thousand seconds in which the tsunami is dominant, and then we expectedly confirmed coseismic and background noises (Kubota et al, 2020, JpGU S-CG66). We also confirmed tsunami signals (Kubota et al., 2020, GRL). However, we found that there are unexpected continuous noise and unexpected intermittent noise in irregularly. In this presentation, long-term evaluation is presented for all 150 observation stations, and we would like you to discuss together in the poster booth.

Keywords: S-net, Ocean bottom pressure data, Tsunami