

## Characteristics of triggered tremor beneath the Yatsushiro Sea by the surface wave of a teleseismic event

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Chao and Obara(2012, SSJ) and Obara et al.(2012, SSJ) found tremors induced by the surface waves of the 2012 Mw8.6 Sumatra earthquake. One of the tremors occurred near the Yatsushiro Sea, the western part of the Kyushu Island. In this study, we reexamine the characteristics of the tremor by using data from the dense seismic network deployed around the sea.

We detected the locations and time evolution of tremors by a grid search method. Waveforms at the seismic stations are stacked with time shifts calculated from the location at a grid. The optimum location is determined at the grid where the power of the stacked waveform is largest among the spatially distributed. The time evolution is detected by checking the power for various origin times. We found that the tremors were located at the depth of around 20km. It corresponds to the lower limit of background seismicity.

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