Source and spectra of tsunami in the 2007 Noto Hanto Earthquake

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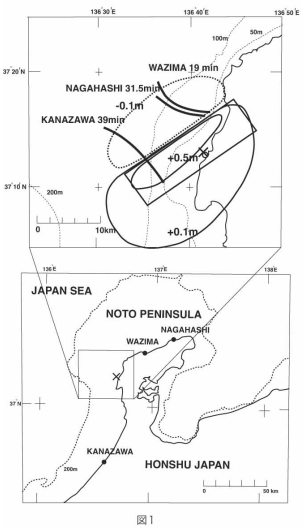
The 2007 Noto Hanto Earthquake was accompanied with a small tsunami. The tsunami was observed at tide stations around Noto peninsula, Honshu, Japan. Noticing three stations of Nagahashi, Wazima and Kanazawa port, we obtained the initial wave fronts using an inverse refraction diagram. As the result the source was identified on the shelf of the west coast of Noto peninsula. Time series of the sea levels observed at Nagahashi and Kanazawa port tide stations during 9 and 15 hours were decomposed into the amplitude spectra using Goertzel method. The dominant frequencies were explained as the excitation of standing wave corresponding to the local topography.



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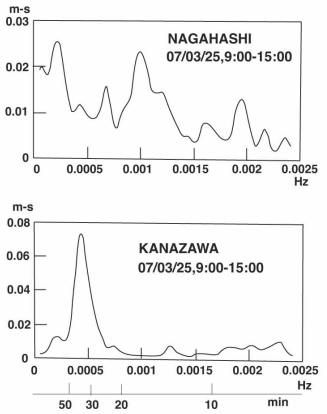

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