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MIS050-P11 Room: Convention Hall Time: May 23 17:15-18:45

The maximum double amplitude at tide stations in the 2010 Chilean Tsunami shown as a function of the seiche dominant per

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Tsunami being generated at central part of Chile was observed at tide stations in Japan with amplitude of about 1m on February 28, 2010. The maximum double amplitude was read from 42 tide gauge records and was plotted as a function of the seiche dominant period, formerly observed by the author around the tide stations (Fig.1). It showed a dominance for the period during 35-52 minutes and the dominance was also shown in the spectra of the tsunami observed at Miyako tide station and pressure gauges installed at sea bottom off northeast Japan (Fig2). This fact suggests that all the incident tsunami around Japan are approximated by the tsunami wave observed at Miyako tide station and the maximum amplitude was attained as a result of resonance at each tide station.

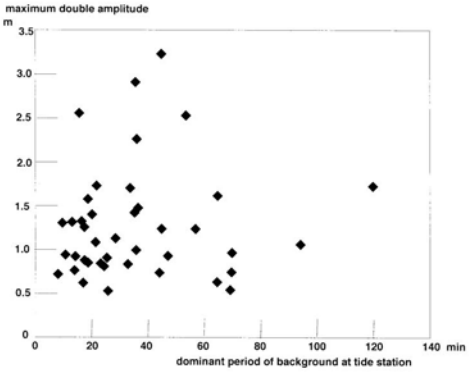

図1

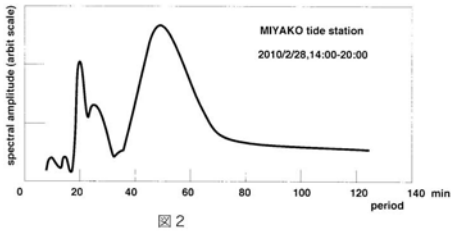

図2

Keywords: 2010 Chilean Earthquake, Tsunami, Dominant period, Seiche, Maximum double amplitude