

## Isolation of source-oriented frequency components from observed tsunami spectra using a response function to white noise.

# Kuniaki Abe [1]

[1] Niigata Junior College, Nippon Dental Univ

Isolation of source-oriented frequency components from tsunami marigram was conducted eliminating locally excited frequency components on an idea of response function to white noise. Analytical and numerical approaches were used as calculations of the response functions.

It was applied to the 1993 Hokkaido-Nansei-oki tsunami observed at tide stations in Hokkaido, Honshu of Japan. As the result they tended to converge into two different values (0.46 and 0.38 mHz) for tide stations located at Honshu and Hokkaido, respectively. It was concluded that the difference was attributed to Doppler shift due to an extension of the source from north to south.