

Higher modes of Earth's incessant free oscillation

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Fundamental modes of the incessant Earth's free oscillations were discovered recently.

Incessant signals of the higher modes are expected to exist as well as the fundamental modes. The authors try to detect the incessant oscillations of the higher modes by stacking the spectra around the modes. We analyze the records of SUR of IDA from 1985 to 1994. Records of 49 days satisfying the condition that there is no large earthquake in each day are used in this study. The stacked spectra suggest the possible existence of a small peak of the first higher modes.