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Characteristics of initial P-wave of extremely large earthquakes

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In this study, we indicate the facts described below by analyzing K-NET and KiK-net data.

- 1) In M6-7 events, there is no difference in the initial P-wave from the onset to 2-3 seconds.
- 2) In M8-9 events, the initial P-wave from the onset to 5-6 seconds is getting larger very slowly compared with the M6-7 events. This fact is confirmed in the frequency range between high value and 1Hz, and not influenced by the difference of radiation pattern.

From these result, the occurrence of extremely large earthquake can be found compared with the present EEW system.

Keywords: P wave, initial phase, initial rupture, Earthquake Early Warning, EEW