Upper mantle transition zone structure beneath the Philippine Sea region

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The upper mantle transition zone structure beneath the Philippine Sea region is studied by using triplicated broadband waveform data.
We determined the velodity model that explained observed waveform by forward modeling.
The waveforms that sampled the transition zone beneath the northan part of Philippine Sea are consistent with model AZ3. P-wave velocity of model AZ3 is 2% faster than standard model AK135 from 560km to 660km depth.