

Surface wave phase velocity maps around Indonesia

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The purpose of this study is to construct velocity models of the upper mantle around the Indonesia region. Okumura(1999) obtained global phase velocity maps using FARM data of IRIS. His result suggested that the Rayleigh wave velocity beneath Banda Sea, which would have oceanic crust, is about 1 percent faster than PREM, while that below southern China Sea, presumably with continental crust, is 2 percents slower than PREM. But the reliability of his analysis needs to be checked.

We add new broadband surface wave data which were obtained by JISNET, which is located around Indonesia, and have 23 seismic stations. We then construct surface wave phase velocity maps of the Indonesia region with higher resolution, and discuss the resolution of the global surface wave tomography.