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# of Seismic Noise Sources and Site Characterization of the Ina-TEWS Permanent Seismic Network, Indonesia

A seismic network's primary objective is to provide high-quality data for monitoring earthquakes, analyzing their sources, and studying the structure of the Earth. The good quality of seismic data is obviously important but can only be achieved if many different factors are considered. The quality assessment was verified by using the seismic waveforms from a total of 537 permanent broadband stations in the Ina-TEWS Network in Indonesia. The quantification of seismic noise quality is based on the evaluation of daily noise levels and the characterization of the seismic sites. Power spectral density (PSD) and horizontal to vertical ratio (HVSR) of individual seismograph forms the basis of a set of tools used to evaluate an instruments performance as well as the characterization of the seismic stations. Some seismic noise sources were found mainly attributed to cultural noise, instrument noise, and the instrument installation. Furthermore, this study also provides discussions about the development trend of data quality evaluation based on the actual broadband observation conditions in Indonesia.

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