

EARTHQUAKES SEISMIC NETWORKING AND IT'S APPLICATION IN BMKG, INDONESIA

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ABSTRACT

Indonesia lies among Australia, Indian, Eurasia and Pacific plates, due to this condition Indonesia has high seismicity of Earthquakes. According to hazard possibilities, Indonesia built Indonesia Tsunami Warning System, INA-TEWS (including earthquake sensing networking) project. This project in cooperation with foreign countries, domestic and international institutions.

For future design, BMKG will install 500 accelerograph. 160 of accelerographs will be install co-located with seismographs. Today, Indonesia has 153 seismic networking and 82 stations from foreign countries. Design of this seismic networking can observe of earthquakes clearly from magnitude 2.5 richter of scale.

Systems those have been integrated in Earthquake determination in BMKG are *Seiscomp* and *Jopens* (applications are used to determine Earthquake parameter), *Centroid Moment Tensor* and *Shaking Map*.

BMKG also facing difficulties in operational observation such as; identification of fault, study of tomography, attenuation function.