

Fault Identification using Seismic Data Monitoring in Jakarta, Indonesia

Regarding seismic activity monitoring and verification of the existence of faults in the Jakarta area, Site Survey has been conducted, signal background noise test (signal feasibility monitoring), permission and installation of 17 seismograph type Lennartz in DKI Jakarta, South Tangerang and Bekasi Regency. Activities start from Site Survey (location selection coordinates placement of seismograph Lennartz equipment for earthquake monitoring) from June 26 2018 to November 30 2018. Data processing has been carried out using signals from 26 microtremor signal samples along the location of fault management from Tangerang Selatan, South Jakarta and Bekasi Regency. Until December 3, 2018, the Earthquake Monitoring data was being processed and searched for earthquake events using Lassie software and quality control was carried out using Seiscom P. Then the results of this data processing were verified with results from the research of Landsat imagery from Harsolumakso, 2001, and verified also with Baribis fault identification from Koulali, 2016 and validated with contour of microgravity density and geological and fault conditions in Jakarta from Koulali, 2017. Keywords: Seismic, fault, quality control, Jakarta, earthquake

Primary author: SETYONEGORO, Wiko (Meteorological Climatological and Geophysical Agency)

Presenter: SETYONEGORO, Wiko (Meteorological Climatological and Geophysical Agency)

Track Classification: Theme 3. Verification Technologies and Technique Application