

## **Data and Seismicity Interpretation in Sumatra - Indonesia**

Geographically, Research Areas Located between Coordinates 7°S to 7°N and 92°E to 107°E. Free Air Anomaly (FAA) and topography data are Used Retrieved from Global Marine Gravity from Geosat and ERS-1 altimetry and Global seafloor Topography from Satellite altimetry and Ship Depth Soundings. It is use amount of 1 '(1 minute) Latitude and Longitude or the sum of 1.85 Km for acquisition as a space. It is use the data released by the BMKG too. The study results showed that the High gravity residual anomaly Associated With high-density rocks. In earthquake occurs on the region flanked by subduction zone boundary and high gravity residual anomaly. High Residual anomalies associated with high-density rocks. Based on Data and Modeling earn Bouguer Anomaly ( $\rho = 2.67 \text{ gr/cm}^3$ ), which is Subduction Zone Sumatera Quite Shallow depth. It means that the earthquake in Sumatra Happens Shallow depth. Western part of Sumatra Regional Is Prone Regions Against by Tsunami.

**Primary author:** ADI MARTHA, Agustya (NDC Meteorology Climatology and Geophysics Agency (BMKG))

**Presenter:** ADI MARTHA, Agustya (NDC Meteorology Climatology and Geophysics Agency (BMKG))

**Track Classification:** Theme 2: Events and Their Characterization