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Identification of Palu-Koro Fault mechanism based on Fault slip and earthquake focal mechanism data

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The identification of the Palu-Koro Fault has been conducted. The study method used is a merging scientific discipline of geology and geophysics. Field data acquisition, processing, analysis and modeling in the laboratory using geological and geophysical techniques became the main framework in this study.

Acquisition of geological investigation including fault-slip at 19 points and 30 historical earthquakes data were used to verify the dominant fault type of the earthquake focal mechanism.

The earthquake focal mechanism analysis shows the type of fault that predominantly controls through the Palu area and its surroundings is strike-slip or horizontal fault mechanism.

Promotional text

The focal mechanism parameter of the earthquake provides critical information for vulnerability analysis earthquake and local study tectonic, regional, and global. The focal mechanism is geometric representation shifting fractures at the time when the earthquake happens.

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