

Earthquakes Mechanisms in Egypt

The focal mechanisms for earthquakes in and around Egypt is calculated during (2004 -2016) using the wave-form data recorded by the Egyptian National Seismological Network (ENSN) and the International Data Center (IDC) of the Comprehensive Nuclear Test Ban Treaty Organization (CTBTO). These solutions are computed by joining P, S_H, S_V polarities and S_V/P, S_H/P and S_V/S_H amplitude ratios where the quality of each solution is evaluated. This set of solutions is considered as a completion of the Egyptian focal mechanism catalogue. It will be helpful in understanding the temporal changes in the stress field and one of methods for discrimination between Explosion and Natural Events.

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Track Classification: 2. Events and Nuclear Test Sites