

1.5-P45. The Magnitude of Completeness (Mc) in Aswan Seismic Network Earthquakes Catalog, Egypt.

The magnitude of completeness, M_c , mapped for Aswan Seismic network Earthquakes Catalog. M_c was estimated based on the maximum curvature method. It is found to be 2.1 for the entire interface catalog. In all catalogs studied, M_c was strongly heterogeneous. The magnitude of completeness, M_c varies from 1.2 to 2.5. The lowest M_c is observed eastern side of Kalabsha fault and the highest M_c appears near the western side of Kalabsha fault. The magnitude of completeness, M_c is approximately 2.2 ± 0.13 in most parts inside the zone(A) at focal depth ranges between 18 to 30 km, 2.3 ± 0.3 at focal depth ranges between 1 to 18 km, 1.4 ± 0.2 at focal depth ranges between 1 to 9 km, 1.9 ± 0.2 at focal depth ranges between 1 to 18 km, 2.1 ± 0.26 (zone F) which focal depth ranges between 1 to 8 km, 1.8 ± 0.19 (zone G) which focal depth ranges between 1 to 8 km, and 1.8 in most parts (zone H) at focal depths greater than 1 and less than 5 km.

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