

## **T1.5-P45. The Magnitude of Completeness (Mc) in Aswan Seismic Network Earthquakes Catalog, Egypt.**

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

**Primary author:** AHMED, Abubaker Ahmed Shater (National Research Institute of Astronomy and Geophysics (NRIAG))

**Presenter:** AHMED, Abubaker Ahmed Shater (National Research Institute of Astronomy and Geophysics (NRIAG))

**Track Classification:** 1. The Earth as a complex system