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Capability of IDC Seismological Network in Egypt

The Egyptian National data center is an organization working with the treaty verification as integrated part of the Egyptian National authority with technical Expertise in the monitoring technologies. One of the main NDCS rule is the comparison between the seismological bulletins of both International Data Center (IDC) and local networks, to measure the capability of IDC to detect the local events in the signatory countries. In this work, we extract the earthquakes data from the archives of both IDC and the Egyptian National Seismological Network (ENSN). Consequently, the detection of the IDC capabilities to locate earthquakes has been evaluated for the period 1999-2011 in Egypt. The obtained results show that about 5.4% of the earthquakes with magnitude ML≥3.0 could be detected and located within Egypt. The errors in the location of earthquakes are relatively large compared to that located by the Egyptian national Seismological Network.

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