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Study of Tectonic Plates Interactions Using IMS Stations: An Example of Inter-NDC Cooperation and Regional Empowerment

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Analyzing data and proper interpretation of the analyzed data are important for the operation of NDCs as they provide advice for both scientific and civil applications of these data. Having an analyst that can interpret data from the International Monitoring System (IMS) network is a challenge to some National Data Centres in the African region. To overcome this and enhance capacity building and regional empowerment, analysts from Nigeria, Tanzania and Kenya collaborated to analyse the earthquake that occurred in Xizange, Tibet on 7 January 2025. The study noted that the event was an intercontinental seismicity occasioned by tectonic plate interaction. The IMS network both at local, regional and teleseismic distances recorded the event. The analytical tool used to study event was DTK-GPMCC. The wave parameters of spectrum, f_k , ray-tracing and azimuth for phase, magnitude, time and slowness were determined. This study therefore shows the importance of the Provisional Technical Secretariat activities towards capacity development and regional cooperation.

E-mail

uchechi231@gmail.com

In-person or online preference

Primary author: Mr MADU, Uchenna Onwuhaka (Nigeria Atomic Energy Commission (NAEC))

Co-authors: SEIF, Dorice Rashid (Tanzania Atomic Energy Commission (TAEC)); Mr MULWA, Josphat Kyalo (University of Nairobi, Department of Earth and Climate Sciences)

Presenter: Mr MADU, Uchenna Onwuhaka (Nigeria Atomic Energy Commission (NAEC))

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