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Analysis of 13 January 2025, Japan Earthquake

A 6.6 magnitude earthquake occurred in the Hyuganada Sea off the coast of Kyushu, Japan on 13 January 2025. A 1m high tsunami was associated with the event triggering the issuance of tsunami advisory by the Japanese government. The underwater eruptions of the Hyuganada Sea generate air waves and pressure waves that were used to study how the application of International Monitoring System (IMS) network data would assist in disaster mitigation. Analysis of the event was done using DTK-GPMCC. The parameters studied and analysed were phase, frequency, spectrum, magnitude, azimuth and slowness. These parameters were observed to be consistent with theoretic values. The results obtained from the seismic, infrasound and hydroacoustic stations were correlated to locate the event. The study concludes that the IMS network is operationally ready to contribute data towards a safer environment.

E-mail

uchechi231@gmail.com

In-person or online preference

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

Co-authors: BISALLAH, Awwal (Nigeria Atomic Energy Commission); ANYAEGBU, Chad; OBERAFO, Ero-mosele

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

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