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Hazard Assessment Along the Central Region Coast of Ghana.

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Ghana is positioned far from any active plate boundaries at the southeastern part of the West African Craton. Elmina, Cape Coast, Saltpond, and Winneba are the four main towns located along the coast of Central region, being one of Ghana's sixteen regions. The seismicity in the regions are stable, with the exception of Greater Accra, Eastern, and part of Volta region that are notable earthquake hotspots. The Central region has been subjected to damaging earthquakes since 1615, when an earthquake was felt in Elmina along the coast of Cape Coast. Tremors have recently been felt by residents of the Cape Coast, specifically at the university Cape Coast campus. Though there were no recordings at the Ghana Geological Survey to support it, verbal communication and observation of some of their structures point to seismic activity in the area. Moreover, a compilation of data from the International Data Centre of the Comprehensive Nuclear Test Ban Treaty Organization reveals the recording of seismic occurrences in the Gulf of Guinea along the coast of Ghana, with the intensity being felt on land. The measured local magnitude (ML) ranges from 2.0 to 4.1, and the body magnitude (Mb) ranges from 2.0 to 4.6.

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Promotional text

A study of the relationship between the seismic zones of southern Ghana and the transform fracture zone systems offshore in the Gulf of Guinea using IDC seismic data

Oral preference format

in-person

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