

Frequency Acoustic Signals Detection of a Mine Explosive Blast Occurrence in Bogoso, Ghana

Tuesday, 5 November 2024 15:50 (10 minutes)

An explosion occurred on 20 January 2022 in a suburb of Bogoso, in the Western part of Ghana. The blast was as a result of a collision between a truck transporting mine explosive materials with a motorcycle. The incident produced a major explosion in the surrounding areas which was observed by many residence and destroyed lives and property devastating the township. As a result, the blast energy produced was propagated through the atmosphere with infrasound waves generated. This low-frequency waves generated were detected by pressure sensors of the infrasound network of the International Monitoring System (IMS). The infrasound signals from this explosion was propagated to range of ~325 km to be recorded at I17CI station of the IMS network.

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