

# Infrasound sources in Jordan and Deploying Portable Infrasound Station

*Wednesday, November 6, 2024 4:10 PM (10 minutes)*

In my presentation, I will show the sources of infrasound waves in Jordan. Many of earthquakes are recorded at Dead Sea transform fault. These earthquakes are considered main source of Infrasound waves. The second source of infrasound waves is Phosphate mines which are located in the southeast part of Jordan. The other sources may be the explosions of WAR in Middle East. In addition, aircraft and machinery such as wind turbines. Studying the infrasound sources using IMS data and IDC bulletins using IMS products (PMCC, Geotool and etc...). Infrasound monitoring is one of technologies used by the CTBT verification regime. Underground explosions can generate infrasound waves are detected by the infrasound portable station to detect low frequency sound waves in the atmosphere to distinguish between natural events or manmade event. So deploying portable infrasound station in the area is very important and the proposed location is northern part of Jordan (Ajlun and Jerash cities). This area is characterized by forests, low surface wind speed and low background noise. This experiment aims to contribute in many important objects and training NDC-JO staff to understand the infrasound technique and understand infrasound sources in Middle East.

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