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Deploying a Portable Infrasound Station in Jordan: Enhancing SHI Monitoring and Preparedness

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The Dead Sea Transform Fault (DSTF) have historically produced seismic events, positioning Jordan as a crucial location for monitoring infrasound waves generated by both natural phenomena, Man-Made activities, including mining quarries.
This poster examines the feasibility and strategic importance of deploying a portable infrasound station in Jordan. The proposed station aims to augment the existing seismic monitoring infrastructure by improving the detection and analysis of infrasound signals. Key considerations include the geological significance of the DSTF and Wadi Araba Fault, which contribute to regional seismic activity and infrasound generation.
Man-Made sources, such as phosphate mining and nearby conflict zones, further emphasize the necessity for comprehensive infrasound monitoring in Jordan.
Practical aspects of the site survey include assessing accessibility, safety, environmental conditions, and infrastructure requirements essential for deploying and maintaining the infrasound station. Additionally, this initiative offers an opportunity for capacity building within Jordan's National Data Center (NDC), fostering expertise in infrasound technology and promoting international collaboration in SHI monitoring efforts.
In conclusion, establishing a portable infrasound station in Jordan promises to enhance regional seismic monitoring capabilities, improve preparedness for natural and anthropogenic events, and contribute valuable data to global scientific endeavors in infrasound research.

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