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Algerian Network for Infrasound (ANIs)

This poster presents the Algerian Network for Infrasound (ANIs), a pioneering project aimed at establishing a comprehensive network of low-cost infrasound devices across Algeria. In its initial phase, the project involves the deployment of four infrasound sensors in the northern part of the country, with two devices operational since June 2022. Preliminary data from these two operational devices have revealed a variety of natural and anthropogenic infrasound sources. Detected events include lightning strikes, strong earthquakes, quarry explosions, cyclones, and volcanic activity. Notably, during this period, two significant fireballs were detected and analyzed using data from local seismic and infrasound networks, as well as from the International Monitoring System (IMS) network. The first fireball event occurred in the Dellys region on November 24, 2022 and is further detailed in the oral communication presented at SNT 2025 by Bouyahiaoui et al. The second event, observed in northern Algeria on May 07, 2023 is discussed in a manuscript submitted for publication recently. These findings underscore the potential of ANIs in enhancing the detection and study of infrasound phenomena across diverse contexts.

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