

IMS Infrasound Network – Station and Engineering Projects

The infrasound component of the International Monitoring System (IMS) is composed of sixty stations. Forty-nine of them are already certified and transmit data in near real-time to the International Data Centre, Vienna, Austria. Each infrasound station is composed of an array of infrasound measurement systems capable of measuring micropressure changes produced at ground by infrasonic wave propagation. The Provisional Technical Secretariat (PTS) of the Comprehensive Nuclear-Test-Ban Treaty (CTBTO) is working towards the completion and sustainability of the IMS infrasound network. In this presentation, the recent progress made with the installation and major upgrade of IMS infrasound stations will be summarized. The main infrasound engineering and development projects carried out by the PTS will also be reviewed. This includes projects to improve station reliability and resilience as well as data availability and quality with the objective to reach compliance with IMS Operational Manual requirements.

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