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Infrasound Network: Status and State-of-the-Art Design

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 operation of the IMS infrasound network. The objective of this presentation is to review the history and status of the IMS infrasound network through station constructions, data availability and fulfilment of IMS requirements. State-of-the-art developments for all station components including sensors, wind-noise reduction systems, array geometry, meteorological equipment and data acquisition systems will also be presented.

Primary author: MARTY, Julien (CTBTO)

Presenter: MARTY, Julien (CTBTO)

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