

International Monitoring System Infrasound Network: current status and existing challenges.

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The Comprehensive Nuclear-Test-Ban-Treaty (CTBT) International Monitoring System (IMS) infrasound network consists of 60 facilities distributed worldwide. In approximately 25 years, 88% of the network was built and certified, highlighting its relevance both in nuclear test monitoring and in civil and scientific applications. The Provisional Technical Secretariat (PTS) of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) is currently dealing with two major challenges: bringing to completion the IMS infrasound network and sustaining the existing infrasound facilities. Both challenges entail the use of the most appropriate instrumentation, as well as technical and engineering solutions that are capable of ensuring long-term robustness and stability of performance of the stations. These activities should also consider compliance with the minimum requirements for the IMS infrasound facilities and the continuously evolving environmental conditions. The presentation will provide an overview of the status of the IMS infrasound network and of the recent activities and engineering projects focused on addressing the above-mentioned challenges.

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