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Interlaboratory Comparison on Infrasound Sensors (Results of PTSAVH.A-C1)

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The Provisional Technical Secretariat (PTS) defined a quality assurance programme for infrasound measurement systems of the International Monitoring System (IMS). This resulted in collaborations with international experts in the field of infrasound, metrology, and quality assurance. An objective is to ensure consistency in measurements and equivalence in data produced across the IMS network. In this framework, the PTS coordinated pilot studies with results presented in ITW2017. Following lessons learned from these studies, the PTS initiated the first interlaboratory comparison ever made in the IMS infrasound monitoring range, including sensor measurement of self-noise, sensitivity and frequency response. During this exercise, infrasound sensors, microphones and barometric pressure sensors were circulated for measurements (June 2020 - January 2021). This presentation illustrates measurements from five participants, a description of their calibration/measurement methods, and an analysis of the degree of equivalence between laboratories.

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Promotional text

Presentation of the results of the first interlaboratory comparison ever made in the IMS infrasound monitoring range.

Oral preference format

in-person

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