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errors to insights: the role of Infrasound Calibration in improving troubleshooting activities and system knowledge

Calibration activities are one of the minimum requirements for stations of the International Monitoring System (IMS), as specified in the IMS Operational Manuals. The ongoing efforts to maintain and recapitalize the infrasound stations of the IMS network have led to the installation of passive calibration capabilities and well-characterized elements, with a new generation of sensors and Wind Noise Reducing Systems (WNRS). The use of the CalxPy tool developed by the Provisional Technical Secretariat (PTS) allows enhanced detection of deviations from theoretical responses, enabling finer diagnostics and streamlined identification of the sources of such deviations. This work presents a number of examples illustrating the recent progress made through the use of CalxPy, both during field missions and during regular monitoring activities, giving an overview of the practical applications of infrasound station calibration and their impact on data quality.

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