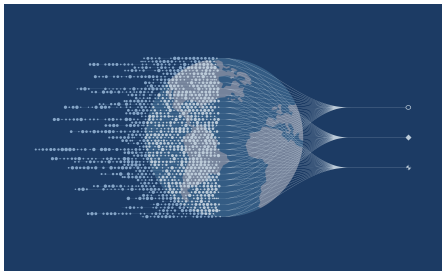

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-situ Calibration of CTBTO Seismic Monitoring Stations in Indonesia

The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) operates five seismic monitoring stations in Indonesia. To ensure the traceability of measurement units for these seismometers, in-situ calibration is essential. This study presents a calibration methodology based on the ISO 17025 standard, employing a comparative method where the seismometer to be calibrated is placed side-by-side with a reference seismometer. The reference seismometer, provided by the Indonesian Agency for Meteorology, Climatology, and Geophysics (BMKG) as a CTBTO partner, has been previously calibrated. Several National Metrology Institutes (NMIs) have adopted this in-situ calibration method. By conducting in-situ calibration, the traceability of measurement units to the International System of Units (SI) for instruments installed at the monitoring stations can be guaranteed.

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