



ID: P5.2-012

Type: E-poster

and advancement of the Seismology Laboratory at the National Data Center of Paraguay

The Seismology Laboratory of Paraguay originated from a bilateral agreement between Paraguay and the United States, through the United States Geological Survey (USGS), in the early 1990s. This agreement enabled the installation of a broadband seismological sensor and a short period sensor. Years later, Paraguay signed and ratified the Comprehensive Nuclear-Test-Ban Treaty (CTBT), which led to the installation of an infrasound monitoring station. Since then, we have been in constant training on operations and data analysis, significantly improving Paraguay's analytical capacity and equipment. Thanks to these advancements, the Seismology Laboratory, located in the Faculty of Exact and Natural Sciences, transitioned from operating with a single seismological sensor and a basic software called SEATool to having a server, more robust analysis software, access to data from the International Data Centre and the capability to conduct both seismic and infrasound analyses. This development has significantly strengthened the laboratory's ability to monitor and analyse both seismic and infrasound events on a national and international level.

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Session Classification: P5.2 Regional Empowerment

Track Classification: Theme 5. CTBT Science and Technology in the Global Context: T5.2 Regional Empowerment