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## Technical Analysis (ETA) and Special Studies: Enabling Effective Non-Routine Investigations at the CTBTO

The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) has established automated processes for routine event analysis, resulting in standard products. However, in cases where unusual events or suspicious measurements occur (e.g. elevated radionuclide levels or seismic activity suggesting a nuclear test), further investigation might be necessary to ensure accurate characterization and detection. Such a special request triggers the need for Expert Technical Analysis (ETA) or Special Studies, which require tailored approaches and methodologies. Over several years, procedures and use cases for these non-routine investigations have been produced and possible methods to be employed under these requests have been explored. This demonstration will showcase our current understanding of ETA and Special Studies, highlighting the procedures and methods developed to date, illustrating potential strategies for improving their efficiency and effectiveness and demonstrating concrete examples of how these methods can be applied in practice, thereby highlighting the potential gains and insights that can be achieved through the targeted use of these additional methods.

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