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Promoting Peaceful Use of the IMS Data for Climate Research and Climate Change Monitoring

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The CTBTO receives, collects, processes, analyzes, reports, and archives data from International Monitoring System (IMS) facilities and makes it available to authorized users. Automatic processing methods and interactive human analysis are done on a routine basis to raw IMS data in order to produce and archive standard International Data Centre products.
The primary purpose of the IMS data is for nuclear explosion monitoring. However, these data can also contribute to climate monitoring and climate change research, ultimately promoting the resilience of communities and their ability to resist/adapt to climate change. The CTBT and its monitoring data may create opportunities that could help address these issues.
Data from the IMS nuclear monitoring network can provide practical steps that can be used by States Signatories and international organizations to protect the planet and its people. Climate change is the example used for this presentation to discuss the opportunities. It reviews scientific applications of IMS data that have successfully been associated with contributing to climate research and climate change monitoring so far. Based on these positive examples, this research makes suggestions on how to further implement the use of IMS data to enhance climate change studies and how this data can continually contribute to monitoring climate change.

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Promotional text

This research aims to raise awareness and promote the SnT 2023 conference objectives by understanding how we can peacefully promote the use of IMS data for climate studies. It will help promote scientific applications of the IMS data among other SnT objectives.

Oral preference format

in-person

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