



ID: J06

Type: Panel discussion

and scientific applications - prospects

Friday, 2 July 2021 14:15 (1 hour)

The data recorded by CTBT's International Monitoring System constitute a unique trove of knowledge with a broad range of civil and scientific applications. In the last decade, thanks to the establishment of the virtual Data Exploitation Centre (vDEC), it became possible for international experts to have access to these data to conduct research and to publish new findings, while the organization would gain from the knowledge transfer and interaction between internal and external experts. The list of possible applications that exploit CTBT data is long and includes e.g. scientific studies on bolides, marine mammal migration studies, discrimination between earthquakes and man-made events, investigation of the Earth's interior, investigation of source depth characteristics from large explosions or validation of atmospheric transport modelling. It includes as well civil applications, such as contribution to tsunami warning centres, the impact of ocean noise on whales, ocean thermometry and climate change.

Promotional text

Primary authors: Mr HARALABUS, Georgios (CTBTO Preparatory Commission, Vienna, Austria); Ms KUSMIERCZYK-MICHULEC, Jolanta (CTBTO Preparatory Commission, Vienna, Austria)

Co-authors: IEZZI, Alexandra (University of California, Santa Barbara, CA, USA); Mr MAURER, Christian (Central Institution for Meteorology and Geodynamics (ZAMG), Vienna, Austria); Mr ELGABRY, Mohamed Nabil Mohamed (National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, Egypt); Mr NECMIOGLU, Ocal (Bogazici University, Istanbul, Turkey); Mr WU, Wenbo (California Institute of Technology, CA, USA); Ms PÉREZ-CAMPOS, Xyoli (National Seismological Service, Mexico)

Presenters: Mr HARALABUS, Georgios (CTBTO Preparatory Commission, Vienna, Austria); Ms KUSMIERCZYK-MICHULEC, Jolanta (CTBTO Preparatory Commission, Vienna, Austria)

Session Classification: Panel discussion on Civil and scientific applications

Track Classification: Backbone elements