

role of CTBT IMS data to support disaster risk mitigation

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Disasters affect populations on a global scale. The Latin American and the Caribbean (LAC) region, is frequently impacted by large earthquakes, tsunamis, volcanic eruptions, and extreme weather events (drought and tropical storms). The raising awareness and concern about the need for disaster risk mitigation, highlights the necessity for operating multi-technology platforms to understand better the hazards posed by natural phenomena.

Currently, IMS data are provided to 20 Tsunami Warning Centres (TWC) in 19 countries that signed a Tsunami Warning Agreement with the CTBTO, this includes two TWCs in the LAC region (Chile and Honduras). IMS data are delivered reliably, timely and securely. This contributes to the work of TWCs since 2005. As this civil application evolves, progresses are also achieved on scientific applications relevant to earthquake monitoring, volcano eruption monitoring for aviation and maritime safety.

The panel will be conducted in Spanish, giving an overview of recent experiences on the use of IMS data for TWCs in the LAC region and Spain. The potential benefits for civil and scientific applications will be discussed, in particular how the IMS technologies (waveform and radionuclide networks) can possibly complement other observation methods. The dialog will also assess how regional cooperation between National Data Centres (NDCs) among each other and with disaster warning centres may offer perspectives to further mitigate the risk of disasters.

Oral preference format

Promotional text

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