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and Scientific Applications of IMS Data

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Although the main purpose of the International Monitoring System (IMS) is nuclear explosion monitoring, this unique asset of available global data may also be used for scientific and civil purposes. Scientific applications follow the decision of the CTBTO PrepCom from November 2000, in which it was stated that the PTS may provide IMS data and IDC products to organizations for the purpose of conducting research associated with the development of the IMS and IDC. Since 2011, the virtual Data Exploitation Centre (vDEC) has allowed scientists and researchers access to the CTBT's IMS data. Following the Sumatra earthquake on 26 December 2004, it was decided that national and regional tsunami warning centres recognized by IOC/UNESCO can sign an arrangement with the CTBTO to receive IMS data for tsunami early warning. After the Fukushima Daiichi nuclear power plant accident, the CTBTO became a member of the Inter-Agency Committee on Radiological and Nuclear Emergencies (IACRNE). Further civil applications for disaster risk reduction have been proposed. This presentation reviews the progress on civil and scientific applications made in the 25 years since the opening of the CTBT for signature.

Promotional text

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