



ID: O5.3-639

Type: Oral

Link to the ISC Database as a Tool for Capacity Building and Education

Tuesday, 29 June 2021 14:19 (15 minutes)

The CTBTO Link to the database of the International Seismological Centre (ISC) is a service provided on behalf and by arrangement with IDC/CTBTO. The Link enables PTS and National Data Centres (NDC) with dedicated access to long-term definitive global datasets maintained by ISC using specially designed graphical interfaces, database queries and non-IMS waveform requests. This service gives access to the ISC Bulletins of natural seismicity of the Earth, mining induced events, nuclear and chemical explosions; the ISC-EHB dataset; the IASPEI Reference Event list (GT) and the ISC Event Bibliography.

The searches are tailored to the needs of the monitoring community and divided into four categories: Area based spatio-temporal search (based on ISC Bulletin), REB based spatio-temporal search, GT event based search and the IMS station based search (historical reporting patterns of stations close to IMS sites). We recently made several additions, for example, a service reporting suspected time periods of inverted polarities at openly available seismic stations.

The Link demonstrates one of the CTBTO efforts in capacity building for NDCs and education of new generation of seismologists working in monitoring research. The Link is regularly used by the NDCs and PTS and proved useful during recent CTBTO Exercises.

Promotional text

The CTBTO Link to ISC database supports the exchange of knowledge between CTBTO and broader scientific community, promotes the wider data used for test ban verification and contributes towards CTBTO capacity building and educational efforts.

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Session Classification: T5.3 - Capacity Building, Education, Communication and Public Awareness

Track Classification: Theme 5. CTBT in a Global Context: T5.3 - Capacity Building, Education, Communication and Public Awareness