

T1.5-P20. Earthquake Monitoring of the Arabian Peninsula and Adjacent Regions

The verification of the Comprehensive Nuclear-Test-Ban Treaty (CTBT) will be assured by the global alarm system currently being established for the CTBT Organization (CTBTO). The International Data Centre (IDC) is a central element of the CTBT verification regime. It collects, processes and analyses data originating from the 337 facilities of the International Monitoring System (IMS). The objective of this study that covers 1356 seismic events from the Reviewed Event Bulletins (REB) is to have a spot at the monitoring of the Arabian Peninsula by the current state of the IMS stations. Data were gathered during the period from January 2009 to December 2014. The study region has been subdivided into 12 seismic zones: Dead Sea, Jordan-Syria, Iraq, Red Sea, Western Iran, Persian Gulf, Eastern Gulf of Aden, Socotra, Arabian Sea, Western Gulf of Aden, Western Arabian Peninsula, Eastern Arabian Peninsula. As a part of the IMS, there are four seismic stations located on the Arabian Peninsula. All of these stations (EIL, MMAI, ASF and WSAR) are auxiliary seismic stations. The data from these stations are transmitted to the International Data Centre in Vienna where they participate in performing station and network processing along with other IMS stations.

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