

Research Activities of Turkish NDC

Boğazici University - Kandilli Observatory and Earthquake Research Institute (KOERI) acts as the Turkish National Data Center (NDC) and is operating International Monitoring System (IMS) Primary Seismic Station BRTR (PS-43) under Belbasi Nuclear Tests Monitoring Center (Belbasi NTMC) for the verification of compliance with the Comprehensive Nuclear-Test-Ban Treaty since February 2000. The NDC is responsible for operating two arrays, which are part of the IMS, as well as for transmitting data from these stations to the International Data Centre (IDC) in Vienna. Selected capacity building activities of the Turkish NDC to be presented at SnT 2017 focus on i) A theoretical study to investigate the array response and gain for different array configurations in order to find the optimal placement of additional sites for a possible enlargement of BRTR from 6 SP-1 BB to 9 SP-1BB elements; ii) Comparison of CTBTO/IDC and KOERI/Regional Earthquake and Tsunami Monitoring Center (RETMTC) earthquake bulletins for the first six months period of 2016, iii) Analysis of DPRK events; and iv) Seismic analysis and yield estimation of selected vehicle-installed bomb explosions occurred in 2016 in Turkey.

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