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Detection and interpretation of Seismoacoustic and Seismic events at NDC Iraq

To contribute in putting end of the nuclear explosions around the world with the support of the Comprehensive Nuclear Test Ban Treaty Organization (CTBTO) we are interested to follow up the explosions and the earthquake in the region and over the world. The national data center in Iraq was established to enable the country have access to international monitoring system (IMS) and international data center (IDC) products to monitor test explosion and verify compliance of the comprehensive nuclear test ban treaty (CTBT). our center has technical expertise in such technologies as seismic and radionuclide data and recently infrasound data for monitoring nuclear test explosion. We detected by using the International Data Center (IDC) products an explosion in Ukrainian ammunition depot by infrasound and seismic stations at 9 October 2018 by analyzing this event with software DTK-(G)PMCC (Progressive Multi-Channel Correlation). Also, we took advantage of the NDC-in-a-Box software package (Geotool, SeisComP3) to analyze the seismic event that occurred at the Iran-Iraq border on 06-01-2019 using IDC products data and Data from the Capacity Building System (CBS) recently installed by the CTBTO team at our National Data Center for the purpose of developing our capacity to receive analyze and investigate incident events.

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