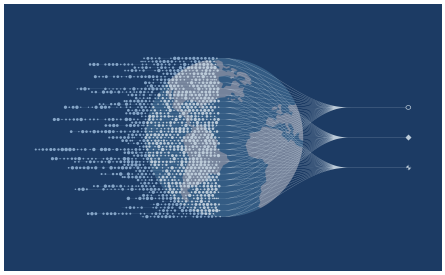

ID: **P3.4-031** Type: **E-poster**

Detection of Seismic Events through Data Integration of the Local Stations in the Jordan Seismological Observatory with CTBTO - IMS Network

This study focuses on the importance of data integrating Jordanian national stations with the International Monitoring System (IMS) network of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) in enhancing earthquake and explosion detection capabilities in Jordan. It includes analytical comparison of local and regional events between results that were obtained from the seismic network in Jordan, and that obtained after adding data from IMS seismic stations. The analysis aims to evaluate the locating accuracy of the events. Also, this study will analyze an explosive event in Jordan or in nearby areas which was recorded by local seismic Stations, then analyze the data obtained from some IMS infrasound stations that detected the same event using GPMCC Software and make a comparison between them in order to achieve the most accurate results. In addition, this study will use SeisComp and NDC in a box. Training, techniques and software provided by the CTBTO in a capacity building project in the Middle East supported the efficiency of national and international monitoring in detecting seismic and explosive activities and improved researchers' capabilities in locating the events more accurately.

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Session Classification: P3.4 Integrating Data from Different Monitoring Technologies

Track Classification: Theme 3. Monitoring and On-Site Inspection Technologies and Techniques: T3.4 Integrating Data from Different Monitoring Technologies