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data collection and Digitizing of Nuclear Tests Recorded by Jordan Seismic Network and the Role of CTBTO in helping Member States

Jordan Seismological Observatory (JSO) began its routine operation in 1983. JSO is observing seismic events, doing the analysis and archiving. (CTBTO) plays important role in global nuclear non-proliferation through its International Monitoring System and National Data Centers. I will show the Jordan project about digitalization of nuclear explosions from Jordan legacy analog seismograms and applying calibrations to make them useful for research and using artificial intelligence for automatic digitalization in future. A large analog archive since 1982 of records on paper, smoked paper and ink records, together with the bulletins and catalogues of the recorded events have been collected in the seismic stations in JSO. In the presentation, I will show nuclear events were recorded by Jordan seismic stations and available seismograms, metadata, format of recording and data type for nuclear tests recorded in Jordan, the recorded nuclear events were organized in databases and in national bulletin. This paper explores the challenges and the future work for legacy data collection and digitization and the role of CTBTO in assisting member states in their works and the meetings it has held in the last two years for Legacy Data from Nuclear Tests in Vienna.

E-mail

ali.alotoum@memr.gov.jo

In-person or online preference

Primary author: Mr ALATOOM, Ali (Jordan Seismological Observatory (JSO))

Presenter: Mr ALATOOM, Ali (Jordan Seismological Observatory (JSO))

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