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Improvement to Use NDC in a Box SHI in Jordan, Enhancing SHI Processing and The Technical Expertise and Issues Learned

Friday 12 September 2025 11:00 (1 hour)

The National Data Center (NDC) of Jordan has been in operation since 2014, and many developments have taken place in the NDC-JO until today. The Provisional Technical Secretariat updated NDC-JO components, provided technical assistance and training courses. Enabling us to effectively participate in the Comprehensive Nuclear-Test-Ban Treaty verification regime and improve the capabilities of the NDC, particularly in data analysis. Difficulties, challenges the NDC faced, and the technical issues and expertise learned led us to new visions for improving NIAB performance and International Data Centre (IDC) product distribution. These technical issues and expertise enable us to use International Monitoring System (IMS) data and IDC products in different fields. In my presentation, I will show the technical issues learned to improve SHI processing system, SOH and the analyst interface and suggestions for using other techniques like machine learning integrating for increasing accuracy and improving efficiency on waveform technologies, using data of IMS for reducing azimuth gap, determining correct location for local events and in performance monitoring and testing.

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