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IMS Network Capability and Performance during the DPRK nuclear tests

David Jepsen, Nurcan Meral Ozel, Nick Mascarenhas, and James Mattila

Comprehensive Nuclear-Test-Ban Treaty Organization, International Monitoring System Division, Austria
(david.jepsen@ctbto.org)

To conduct comprehensive and advanced analyses of nuclear tests, like those in the DPRK, data from different monitoring technologies are required. Over the past twenty years, the CTBTO has successfully built-up the CTBT International Monitoring System (IMS) network to 90% completion, ensures that the network is operational to strict standards and enables its data to be used for in-depth analyses. The advances in and/or current detection capability for each of the four IMS monitoring technologies (seismic, hydroacoustic, infrasound and radionuclide) are shown along with a summary of their performance during the DPRK nuclear tests. Further, future enhancements to the network's capability and avenues to enhance the network's data availability are described.