

T4.1-P27. The application of local seismic networks as national technical mean

The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) basically established to monitor any probable nuclear tests all around the world with the goal of putting an end to any kind of tests and consequently nuclear weapons as well. Beside main verification regime technology and instruments, national technical means could be used as a strong verification mean too. Local instruments could be a useful mean while going into depth in an area, especially when a member state request any claim against another. Local seismic networks could effectively use checking seismic activity of any area with highest resolution and precision. Lots of small events couldn't record on global networks and the magnitude of completeness of local network catalogs are always less than regional or global ones which is a great advantage of these kind of networks as national technical mean. To define a procedure detecting and registering these kind of networks either online or offline will strength the treaty. In this study, some local networks of Iran are presented and their activity compare with regional and global networks are shown emphasizing the remarkable natural difference of seismic activity detection.

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