

T2.2-P18. SCANNING AND DIGITIZING OF HISTORICAL ANALOGUE SEISMOGRAMS RECORDED BY SEISMIC STATIONS OF THE KYRGYZSTAN

The archive of the Institute of seismology of the National Academy of sciences of the Kyrgyz Republic (IS NAS KR) in Bishkek contains hundreds of thousands of historical analogue seismograms since 1927 from in total 166 seismic stations (permanent and temporary), which have been operated on Kyrgyz territory. The standard equipment at all these stations was Kirnos SKM-3 and SKD seismometers. In the frame of a joint international project on capacity-building for CTBT verification between the IS NAS KR, the Institute of Geophysical Researches of the Committee of Atomic Energy of Kazakhstan (IGR CAE RK) and NORSAR (Norway) historical analogue seismograms of nuclear explosions conducted at different test sites of the world, are scanned and digitized. The project was initiated in 2013 and started in 2014. Until now more than 20,000 seismograms have been scanned with a resolution of 1200 dpi. In addition, more than 3,000 seismograms of nuclear explosions recorded by Kyrgyz stations since 1961 have been digitized by IGR CAE RK staff, and then stored in the CSS 3.0 formatted database. This database is widely used for various studies about nuclear test monitoring.

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Track Classification: 2. Events and their characterization