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# Ground Truth Events on the Territory of Kyrgyzstan

Five large chemical explosions with well-known parameters which can be used for calibration of regional seismic networks in the Central Asia have been conducted in the territory of Kyrgyzstan. These are three powerful industrial explosions in the Toktogul area: "Burlykiya" (February, 8th, 1975, Yield 702 tons), "Uchterek" (June, 11th, 1989, Yield 1623 tons) and recent double explosion "Kambarata" (December, 22, 2009, Yield 700 and 2160 tons), and also two explosions around Tuya-Muyun mountain mass, conducted on December, 31, 1959 with Yield 190 tons, and on March, 3, 1960 with Yield 600 tons. Seismograms of historical explosions have been collected and digitized from archives of analogue seismograms of the various seismological organizations of the Central Asia. "Kambarata-2" explosion has been recorded by a large number of modern digital seismic stations. For explosions we studied the kinematic and dynamic parameters of seismic records, and the distinct and composite regional travel-time curve have been created. Comparison of seismic effect of investigated explosions and seismic effect of the large chemical explosions conducted in the Central Asia territory is made.

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