Regional and local seismic stations networks equipped with digital broadband high sensitive instruments were created and currently successfully operate on the territory of Central Asia. These networks became operational not long ago (KNET-1991, KZNET-1994, SEME network, TJNET-2005, KRNET-2007). Data from these networks are used in different combinations at several regional processing Centers and are also submitted to the International Data Centers.

The records of large chemical explosions with definitely known parameters suit ideally for calibration of regional networks and for assessing their capabilities to monitor earthquakes and explosions. As calibration sources the following explosions were used: calibration chemical explosions conducted on the STS territory in Kazakhstan in 1997-2002 having yield of 12.5-100 t, two large explosions conducted at constructing a hydropower station Kambar-Ata2 in Kyrgyzstan in 2009 having yield of 700 and 2160 t, and several quarry industrial blasts conducted in western Kazakhstan in 2010 having yield of 13.2-32.3 t. Kinematic and dynamic parameters of the explosion records were studied by data from CA stations. Localization accuracy applying different velocity models was assessed. Précised regional travel-time curves were constructed. Relocation of seismic events showed the effectiveness of regional velocity models obtained by the explosion records.