

-ACOUSTIC GROUND-TRUTH DATABASE BY KAZAKH NDC DATA

Kazakh infrasound network will consist of three arrays: IS31 Aktyubinsk, Kurchatov and Makanchy when the last one will be opened. Russian infrasound station IS46 Zalesovo is close to our network and its data also may be used for the network processing. There are no many places all over the World when concentration of the infrasound station is the same high. Kazakh NDC automatically detects infrasound signals at IS31-Aktyubinsk, IS46-Zalesovo and Kurchatov arrays records since June 2014 using PMCC. The detection bulletins are input information for the automatic event location. Systematic seismic network data processing takes place for the same region. The processing includes discrimination of the event nature. So there is a big amount of information of instrumental seismic and acoustic observations. This information may be used for the researches of various nature, for the signal propagation modeling etc. These ground truth data may be obtained as a result of seismic and acoustic data fusion. The attempt is made to create such a database. The events at the database are the quarry blasts. Association of the seismic and acoustic event was made in accordance with the technique used at IDC and described at N. Brachet, et al.2010.

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