

OF BOLIDES BY KAZAKHSTAN INFRASOUND STATIONS

Kazakhstan has established and is successfully operating a contemporary digital network of seismic and infrasound stations located throughout the perimeter of the Republic. Currently, KNDC transmits in real time and processes data from 4 infrasound arrays: Aktybinsk, Kurchatov, Makanchi, Zalesovo (Russia). This data allows for automated detection of infrasound events, and creating infrasound events bulletins on regular basis. At the present time there is a huge work on discriminating sources type; most of recorded infrasound events are mining blasts, large earthquakes, rocket launches, etc. However, many of the events hardly can be related to any of the known types, among them there are records of small bolides recorded by Kazakhstan stations quite often. For its identification, it is reasonable to use independent information of mass media, event witnesses, and records of video recorders. The work shows the records of bolides recorded on the territory of the East Kazakhstan and Ural, and comparison with records of Chelyabinsk bolide of 2013, and with sources of other nature. Location parameters of these events are compared by data of KNDC and IDC bulletins. The obtained data can be used to improve the quality of KNDC infrasound bulletin and supplement of the reference events database.

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Track Classification: Poster session