

Experience of Use Seismoacoustic Complex of MCSM for Monitoring of Natural and Man-Made Events

To date, the main center of special monitoring (MCSM) is the only one structure in Ukraine, which is able to perform the tasks of nuclear tests control and this is a priority in the activities of the center. On the basis of MCSM deployed National Data Centre. The existing distributed system of collection, processing and analysis of information allowed to detect and identify all known nuclear explosions since 1995. Features of MCSM hardware enable monitoring events that generate seismic and acoustic activity, magnetic storms, and radiation. To perform the tasks assigned to MCSM used complex methods of observation: seismic, infrasound, radionuclide, magnetic and radio. Each detection method is unique and is designed to monitor the situation in certain geophysical shell of the Earth. The use of the detection methods in combination allows you to effectively use the information for other purposes, such as monitoring of natural hazards. A seismoacoustic complex got special development. Complex of seismic and infrasound devices installed on the four observation points of MCSM, one of which is located in Antarctica. The data are used to identify explosions and earthquakes, bolides blasts, research anomalies in the preparation of earthquake, tsunami warning.

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