

Kamchatka network of seismic stations. Operational experience

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Abstract The creation of the Kamchatka regional network of seismic stations began in 1961. The number of stations over the past 60 years has gradually increased and by 2022 the Kamchatka regional network of seismic stations consisted of 88 stations. Data from all seismic stations are available in digital form and provide continuous observations of the seismicity of the Kamchatka region, the fulfillment of tasks within the framework of the Urgent Seismic Reporting Service and the Tsunami Warning Service, seismic monitoring of volcanoes in order to predict eruptions and control their condition. All stations operate independently. The article presents a brief overview of the main studies and summarizes the experience in the field of seismometry and the operation of a network of seismic stations. A description of the equipment of seismic stations is given, a technique for calibrating seismometric channels is briefly considered, issues of synchronization of records of seismic traces and dynamic characteristics of seismic instruments are touched upon, work on studying the properties of the soil stratum at the base of the station pedestal is noted. Some technical aspects of the use of the CM3 seismometer at radio telemetric seismic stations are outlined.

Keywords Seismometry, operating experience of seismic stations.

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