

SCIENTIFIC INFORMATION SYSTEM «ACTIVE SEISMOLOGY» FOR INTEGRATED GEOPHYSICAL STUDIES

L.P. Braginskaya, A.P. Grigoruk, V.V. Kovalevsky

Institute of Computational Mathematics and Mathematical Geophysics SB RAS, Novosibirsk

The paper presents a web-oriented Scientific Information System «Active Seismology» to provide comprehensive information theoretical and experimental research in a new field of Geophysics — the studying the crustal structure and the geodynamic processes in the areas of earthquakes and volcanoes using managed sources of seismic waves. The main objective of SIS is receiving, integration and provision of data and knowledge for fundamental physics research of seismic process, studying the deep structure of the geological environment, monitoring natural seismic and volcanic processes. SIS «Active Seismology» covers all major stages of research in active seismology: experiment, modeling, bibliography, publication of results and their discussion. Web resource is available at <http://opg.ssc.ru>.

Keywords: scientific information system, database, knowledge base, seismology.