Comparative study of the records for the short distance earthquakes on rock and Lake Baikal ice cover

E.N. Chernych, A.V. Klyuchevskii, V.V. Ruzhich

Institute of the Earth's Crusts SB RAS, Irkutsk, Russia

Abstract. Presented here are the basic results for comparative study of the records for the four short distance earthquakes obtained on Lake Baikal ice and on rock (seismic station located in the Settlement of Listvyanka). Since the differences found between the records may be due to several factors – sedimentary unit, wave environment, ice cover, interfaces and microseisms, experimental studying and understanding the basic trends in seismic wave transformations require the formation of databases of the earthquakes recorded on the lake ice and statistical analysis of the record processing results.

Keywords: short distance earthquakes, Lake Baikal, rock, ice cover, records, spectra, microseisms.