## Study of the Internal Structure of Geothermal Deposits in the Southern Part of the Kamchatka Peninsula

 $Valentin V. Gravirov^1$ ,  $Andrey N. Kotov^1$ ,  $Dmitry A. Presnov^1$ ,  $Ivan A. Nuzhdaev^2$ ,  $Sergey A. Toshchov^1$ 

## vvg@ifz.ru

In 2023, we studied the Pauzhetsky hydrothermal system and the Kambalny volcanic ridge. The study and exploration of Kamchatka geothermal deposits is a very perspective task. Currently, geothermal deposits are widely used as sources of electrical energy; several geothermal power plants have been built and put into operation in nearby areas. In the southern part of the Kamchatka Peninsula, a large number of wells have been drilled for the extraction of thermal waters for economic, resort and recreational purposes. There are many scientific works devoted to the study of geothermal deposits in the south of Kamchatka using various geological and geophysical methods. However, only some work has been done on seismic probing of hydrothermal systems at the moment.

<sup>&</sup>lt;sup>1</sup> O.Yu. Schmidt Institute of Physics of the Earth, Russian Academy of Sciences

<sup>&</sup>lt;sup>2</sup> Institute of Volcanology and Seismology of the Far Eastern Branch of the Russian Academy of Sciences