

DEEP UNDERGROUND STRUCTURE OF DZHARDZHAVA MUD VOLCANO WITHIN SOUTH-KERCH ANTICLINE STRUCTURE

A.L. Sobisevich¹, T.Yu. Tveritina², D.V. Likhodeev², D.E. Beloborodov¹,
Z.I. Dudarov³, S.M. Dolov³, D.A. Presnov¹, I.N. Puzich¹

¹ Schmidt Institute of Physics of the Earth, Russian Academy of Sciences, Moscow, Russia

² Lomonosov Moscow State University, Moscow, Russia

³ Berbekov Kabardino-Balkarian State University, Nalchik, Russia

Abstract. The results of comprehensive geological and geophysical studies of the deep underground structure of the South-Kerch anticline structure and the Dzhardzhava mud volcano are presented. Specific features of manifestations of mud volcanism within this structure with respect to potential problems for industrial land use are considered.

Keywords: crustal fluids, mud volcanoes, deep underground structure, roots of mud volcanoes, seismic processes.