

HETEROGENEOUS STRUCTURE OF THE LITHOSPHERE IN THE EASTERN PART OF THE INDIAN OCEAN BASED ON THE RESULTS FROM THE ANALYSIS OF THE GRAVITY AND ANOMALOUS MAGNETIC FIELDS

A.A. Bulychev¹, D.A. Gilod¹, E.P. Dubinin²

¹Lomonosov Moscow State University, Moscow, 119991, Faculty of Geology;

²Lomonosov Moscow State University, Moscow, 119991, Museum of Earth Science

Structural analysis of potential fields along with other geological and geophysical data (primarily, data on seismology, seismic, drilling, and dredging) allow solving many disputable questions concerning the structure and evolution of the tectonosphere. The authors analyzed structurally the potential fields of the eastern part of the Indian Ocean. The results of the study allowed finding the conclusion for the types of the lithosphere of the basic structures in the study area. They are the basis for the subsequent creation of the model structure and tectonosphere evolution in this region.

Keywords: potential fields, tectonosphere, the Indian ocean.