GEOLOGY OF CHUKOTKA PENINSULA AND SURROUNDING AREAS

A REGIONAL STUDY REPORT IN 2 VOLUMES

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This report summarizes geological data on the onshore Chukotka Peninsula, Wrangel Island and adjacent onshore territories of the Northeastern Asia. Main purpose of this study is to provide a modern geological and tectonic framework that can be useful for companies involved in exploration for mineral resources in this vast region.

Most of the results presented in the Volume 1 are in the public domain, except for some data that were collected by Dr. Sergey Sokolov and Dr. Marianna Tuchkova from the Laboratory of Tectonic of Oceans and Perioceanic Zones of the Geological Institute of Russian Academy of Sciences (GIN RAS, Moscow) who has compiled this report. The latter consists of 163 pages including 124 illustrations.

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Volume 2: PROVENANCE, PALEOGEOGRAPHY & UPLIFT HISTORY

The Volume 2 is the final product of the implemented regional study of the Chukotka Peninsula. It summarizes the results of analytical investigations of samples from Paleozoic and Mesozoic sedimentary rocks of the Chukotka Peninsula, which include U-Pb detrital zircon geochronology, whole-rock Sm-Nd isotopic and chemical studies, X-Ray diffraction of mudstone rocks, apatite and zircon fission track studies, vitrinite reflectance, Rock-Eval studies and thin-section description. The main goals of these studies were (i) obtaining new modern analytical data from several key sedimentary sections that would allow for more accurate constraint of the geologic history of the region, and (ii) producing a model of tectonic and sedimentary evolution of the region with reference to events that may affect the offshore South and North Chukchi sedimentary basins.

The Volume 2 consists of 107 pages including 76 illustrations. The information about the used samples and row analytical data are provided in 9 attachments. The Volume 2 is accompanied with the ArcGIS database.

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