

PROBLEMS AND PROGRAMS OF THEIR SOLUTION WHEN CREATING DIGITAL SPECIALIZED TOPOGRAPHIC MAPS OF THE SIBERIAN ARCTIC

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The goal is the development and justification of new map signs for digital specialized topographic maps. Methods - geoinformation mapping, automated processing of space images. Results: the main problems of using signs for the regions of the Siberian Arctic are considered; results of visual analysis for the practical use of space data for mapping the nature of the Arctic zone are presented; the improved signs of objects for the Arctic landscape on specialized topographic maps are presented; the technological scheme for creating digital specialized topographic maps is briefly described and a draft of the specialized legend content of such maps is presented. As a result, there was proposed a program for specialized digital mapping of the Siberian Arctic from the Yenisei Gulf to the mouth of the Lena, including the Taimyr Peninsula, the North Siberian Lowland, the Putorana Plateau and the north of the Central Siberian Plateau.

Key words: Siberian Arctic, digital specialized topographic maps, Landsat satellite images, technological map creation scheme, automated processing of space images, geographical regionalization, improvement of map technology and content, types of map signs.

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