

METHODS OF GEOSPATIAL MONITORING OF PERMAFROST HEAVE MOUNDS

Alexander S. Repin

Siberian State University of Geosystems and Technologies, 10, Plakhotnogo St., Novosibirsk, 630108, Russia, Senior Lecturer, Department of Engineering Geodesy and Mine Surveying, phone: (383)343-29-55, e-mail: vip.repin2010@mail.ru

The article presents historical aspects of the research of permafrost landforms. Technogenic and natural factors affecting the development and degradation of the heaving hills, as well as the impact of the heaving hills on the infrastructure of the oil and gas industry in the Far North during its operation, are considered. The article presents the existing methods for determining the value of the external and underground components of the hummocks of permafrost heaving. The analysis of the existing methods and means of performing measurements in determining the external and underground components of the hummocks of permafrost heaving is carried out. Based on the results of the research and analysis of materials, a method for geospatial monitoring of heave mounds based on a method for determining the magnitude and direction of deformation of the external and underground components of heave mounds are offered.

Keywords: geospatial monitoring, permafrost landforms, engineering and geodetic surveys, linear structures, oil and gas fields

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