

Catalog of boreholes from Russia and Mongolia, Version 1

USER GUIDE

How to Cite These Data

As a condition of using these data, you must include a citation:

Melnikov, E.S 1998. *Catalog of boreholes from Russia and Mongolia*, Version 1. [Indicate subset used]. Boulder, Colorado USA. NASA National Snow and Ice Data Center Distributed Active Archive Center. <https://nsidc.org/data/GGD316>. [Date Accessed].

FOR QUESTIONS ABOUT THESE DATA, CONTACT NSIDC@NSIDC.ORG

FOR CURRENT INFORMATION, VISIT <https://nsidc.org/data/GGD316>



National Snow and Ice Data Center

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This catalog of boreholes includes those published in papers and monographs as well as other literature of limited circulation. The 122 boreholes were used to derive a characterization of the Russian territory according to eight geocryological regions. Five boreholes are included for Mongolia. Data from these boreholes were used in the generation of the Circum-arctic Map of Permafrost and Ground-Ice Conditions (Brown et al., 1997). Data provided by Evgeny Melnikov, Earth Cryosphere Institute, Siberian Branch of Russian Academy of Sciences, Moscow. Data obtained from various sources noted within each borehole entry.

Please cite these data as follows:

Melnikov, E. 1998. Catalog of boreholes from Russia and Mongolia. In: International Permafrost Association, Data and Information Working Group, comp. Circumpolar Active-Layer Permafrost System (CAPS), version 1.0. CD-ROM available from National Snow and Ice Data Center, nsidc@kryos.colorado.edu. Boulder, Colorado: NSIDC, University of Colorado at Boulder.

The following is the explanation for abbreviations and footnotes appearing in the text:

1. "Core" means that information was obtained from observation of the borehole core.
2. The altitude of boreholes is obtained from the topographic maps at 1:300 000 to 1:1000 000 scale, excluding published boreholes.
3. Here (in) after: The number in parenthesis refers to the morphogenetic type of landscape on the map.
4. Here (in) after: A two-layer structure of permafrost (second layer is deep-located relic permafrost).
5. The coordinates for boreholes with map numbers 22, 24-30, 32-37, 39-41, 43-53, 55-59, 61-66 and 68 (West Siberian region IV) are approximate.
6. "Standard logging" is a combined natural gamma logging, electric logging and well caliper logging.
7. "Geothermal observations" demonstrate the thickness of layer with the temperature below zero.
8. The permafrost base is exposed by a number of adjacent boreholes; interval of fluctuations of permafrost base depth is shown.
9. The base data for boreholes with map numbers 72, 73, 79-88, 90, 92-94 was collected by:
 - a. direct geothermal measurements (data of Yakutsk Permafrost Institute, Siberian Branch, Academy of Sciences of the USSR);
 - b. visual observations on ice-content in the core, and depth of appearance of fresh water table; thermologging of the boreholes (studies of "PGO Yakutskgeologia");
 - c. electric, well caliper and thermal logging in pioneer and exploratory oil and gas wells ("PGO Lenaneftegasgeologia" studies).

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- 2 SOFTWARE AND TOOLS
- 3 DATA ACQUISITION AND PROCESSING
- 4 DOCUMENT INFORMATION

4.1 Publication Date

1998

4.2 Date Last Updated

2021