Circum-Arctic Map of Permafrost and Ground-Ice Conditions, Version 2

USER GUIDE

How to Cite These Data

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

Brown, J., O. Ferrians, J. A. Heginbottom, and E. Melnikov. 2002. *Circum-Arctic Map of Permafrost and Ground-Ice Conditions, Version 2*. [Indicate subset used]. Boulder, Colorado USA. NASA National Snow and Ice Data Center Distributed Active Archive Center. https://doi.org/10.7265/skbg-kf16. [Date Accessed].

National Snow and Ice Data Center

Value	Definition
0	No information
1 - chf	Continuous permafrost extent with high ground ice content and thick overburden
2 - dhf	Discontinuous permafrost extent with high ground ice content and thick overburden
3 - shf	Sporadic permafrost extent with high ground ice content and thick overburden
4 - ihf	Isolated patches of permafrost extent with high ground ice content and thick overburden
5 - cmf	Continuous permafrost extent with medium ground ice content and thick overburden
6 - dmf	Discontinuous permafrost extent with medium ground ice content and thick overburden
7 - smf	Sporadic permafrost extent with medium ground ice content and thick overburden
8 - imf	Isolated patches of permafrost extent with medium ground ice content and thick overburden
9 - clf	Continuous permafrost extent with low ground ice content and thick overburden
10 - dlf	Discontinuous permafrost extent with low ground ice content and thick overburden
11 - slf	Sporadic permafrost extent with low ground ice content and thick overburden
12 - ilf	Isolated patches of permafrost extent with low ground ice content and thick overburden
13 - chr	Continuous permafrost extent with high ground ice content and thin overburden and exposed bedrock
14 - dhr	Discontinuous permafrost extent with high ground ice content and thin overburden and exposed bedrock
15 - shr	Sporadic permafrost extent with high ground ice content and thin overburden and exposed bedrock
16 - ihr	Isolated patches of permafrost extent with high ground ice content and thin overburden and exposed bedrock
17 - clr	Continuous permafrost extent with low ground ice content and thin overburden and exposed bedrock
18 - dlr	Discontinuous permafrost extent with low ground ice content and thin overburden and exposed bedrock
19 - slr	Sporadic permafrost extent with low ground ice content and thin overburden and exposed bedrock
20 - ilr	Isolated patches of permafrost extent with low ground ice content and thin overburden and exposed bedrock
21 - g	Glaciers
22 - r	Relict permafrost
23 - l	Inland lakes
24 - o	Ocean/inland seas
25 - ld	Land

Permafrost extent codes

c = continuous	(90-100%)
d = discontinuous	(50- 90%)
s = sporadic	(10- 50%)
i = isolated patches	(0 - 10%)

Ground ice content codes

h = high	(>20% for "f" landform codes) (>10% for "r" landform codes)
m = medium	(10-20%)
l = low	(0-10%)

Landform (terrain and overburden) codes

f	lowlands, highlands, and intra- and intermontane depressions characterized by thick overburden cover (>5-10m)
r	mountains, highlands ridges, and plateaus characterized by thin overburden cover (>5-10m) and exposed bedrock

1.2 Projection

Projection for the raster (*.byte) files is:

Projection: Lambert Azimuthal
Units: meters
Spheroid: defined
Major Axis: 6371228.00000
Minor Axis: 6371228.000

Parameters:
radius of the sphere of reference: 6371228.00000
longitude of center of projection: 0
latitude of center of projection: 90
false easting (meters): 0.00000
false northing (meters): 0.00000

Projection of the shapefiles is:

Projection: Lambert Azimuthal
Datum: none
Units: meters
Spheroid: defined
Major Axis: 6370997.00000
Minor Axis: 0.00000

Parameters:
radius of the sphere of reference: 6370997.00000
longitude of center of projection: 180
latitude of center of projection: 90
false easting (meters): 0.00000
false northing (meters): 0.00000