A Big Earth Data Platform for Three Poles

**Permafrost map of China and its neighbors based on Circum-Arctic Map of Permafrost and Ground Ice Conditions (2001)**

1、Description

Field description:  
Num\_code (Frozen soil attribute code)  
Combo (Permafrost properties)  
extent (Extent of frozen ground)  
content (Ice content)  
  
Attributes comparison are as follows:  
(1) Comparison table of frozen soil properties:  
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)  
  
(2) Comparison table of frozen soil scope  
c = continuous (90-100%)  
d = discontinuous (50- 90%)  
s = sporadic (10- 50%)  
i = isolated patches (0 - 10%)  
  
(3) Ice content comparison table  
h = high (>20% for "f" landform codes) (>10% for "r" landform codes)  
m = medium (10-20%)  
l = low (0-10%)

2、Keywords

Theme：Frozen ground distribution,Frozen Ground  
Discipline：Cryosphere  
Places：China, Periphery of China  
Time：2001

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：1.7MB

4.Data format：Esri Shapefile

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：60.0 | - |
| west：60.0 | - | east：140.0 |
| - | south：10.0 | - |

5、Time frame:2001-01-10 08:00:00+00:00--2002-01-09 19:59:59+00:00

6、Reference method

References to data:

WU Lizong, National Snow and Ice Data Center（NSIDC）. Permafrost map of China and its neighbors based on Circum-Arctic Map of Permafrost and Ground Ice Conditions (2001). A Big Earth Data Platform for Three Poles, 2013

References to articles:

Brown, J., O.J. Ferrians, Jr., J.A. Heginbottom, and E.S. Melnikov. 1998, revised February 2001. Circum-arctic map of permafrost and ground ice conditions. Boulder, CO: National Snow and Ice Data Center. Digital media.

7、Supporting project information

8、Data resource provider

name: WU Lizong  
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences  
email: wulizong@lzb.ac.cn  
  
name: National Snow and Ice Data Center（NSIDC）  
unit: National Snow and Ice Data Center  
email: braup@nsidc.org