时空三极环境大数据平台

**环北极地区多年冻土和地下冰状态图(V2)（1997）**

英文标题：Circum-Arctic map of permafrost and ground ice conditions (v2) (1997)

1、摘要

数据集包括： 1、permaice（冻土类型图） 2、subsea(海底界线矢量图)3、treeline(林线矢量图)4、nhipa(栅格图)5、llipa(栅格图)  
Permaice包括属性字段：Num\_code（冻土属性编码）  
 Combo(冻土属性）extent（冻土范围）content(含冰量）  
属性对照如下：（1）冻土属性对照表：  
 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）冻土范围对照表   
 c = continuous (90-100%)   
 d = discontinuous (50- 90%)   
 s = sporadic (10- 50%)   
 i = isolated patches ( 0 - 10%)   
（3）含冰量对照表  
 h = high (>20% for "f" landform codes) (>10% for "r" landform codes)   
 m = medium (10-20%)   
 l = low (0-10%)   
------------------------------------------------------------  
Projection of the shapefiles is:  
PROJCS["Sphere\_ARC\_INFO\_Lambert\_Azimuthal\_Equal\_Area",  
 GEOGCS["GCS\_Sphere\_ARC\_INFO",  
 DATUM["Sphere\_ARC\_INFO", SPHEROID["Sphere\_ARC\_INFO",6370997.0,0.0]],  
 PRIMEM["Greenwich",0.0],  
 UNIT["Degree",0.0174532925199433]],  
 PROJECTION["Lambert\_Azimuthal\_Equal\_Area"],  
 PARAMETER["False\_Easting",0.0],  
 PARAMETER["False\_Northing",0.0],  
 PARAMETER["longitude\_of\_center",180.0],  
 PARAMETER["latitude\_of\_center",90.0],  
 UNIT["Meter",1.0]]  
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

2、关键词

主题关键词：地下冰,冻土分布,冻土  
学科关键词：冰冻圈  
地点关键词：环北极  
时间关键词：1997

3、数据细节

1.比例尺：10000000

2.投影：3408

3.文件大小：23.5MB

4.数据格式：shp

4、空间范围

|  |  |  |
| --- | --- | --- |
| - | 北：90.0 | - |
| 西：180.0 | - | 东：-180.0 |
| - | 南：25.0 | - |

5、时间范围2019-05-11 19:08:33+00:00--2019-05-11 19:08:33+00:00

6、引用方式

数据的引用:

O. Ferrians, J. A. Heginbottom, E. Melnikov, Tingjun Zhang. 环北极地区多年冻土和地下冰状态图(V2)（1997）. 时空三极环境大数据平台, 2011.[ZHANG Tingjun, E. Melnikov, O. Ferrians, J. A. Heginbottom. Circum-Arctic map of permafrost and ground ice conditions (v2) (1997). A Big Earth Data Platform for Three Poles, 2011]

文章的引用:

Zhang, T., J.A. Heginbottom, R.G. Barry, and J. Brown. 2000. Further Statistics on the Distribution of Permafrost and Ground Ice in the Northern Hemisphere. Polar Geog. 24(2): 126-131.  
  
Brown, J., O.J. Ferrians, Jr., J.A. Heginbottom, and E.S. Melnikov.. 2002. Circum-Arctic Map of Permafrost and Ground-Ice Conditions. Version 2. [indicate subset used]. Boulder, Colorado USA: National Snow and Ice Data Center.

7、资助项目信息

8、数据资源提供者

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