A Big Earth Data Platform for Three Poles

**Map of permafrost on the Qinghai-Tibet Plateau (1:3,000,000) (1983-1996)**

1、Description

The Map of Permafrost on the Qinghai-Tibet Plateau (1:3,000,000) (Shude Li and Guodong Cheng, 1996) was made by the State Key Laboratory of Frozen Soil Engineering, LIGG, CAS (currently called the Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences). It was based on first-hand information from the study of frozen soil and previous research papers and literature. By detailed study and consultation of aerial photographs, satellite images, the Permafrost Map along the Qinghai-Tibet Highway (1:600,000) (Boliang Tong, et al., 1983), Geomorphological Map of the Qilian Mountains (1:1,000,000) (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, 1985), Natural Landscape Map of Qinghai-Tibetan Plateau (1:3,000,000) (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, 1990), Quaternary Glacial Distribution Map of the Qinghai-Tibetan Plateau (1:3,000,000) (Bingyuan Li and Jijun Li, 1991), Frozen Soil Remote Sensing Map of the Western Channel Project of the South-North Water Diversion in the Region of the Tongtian-Yalong Rivers (1:500,000) (Lanzhou Institute of Glaciology and Cryopedology, Chinese Academy of Sciences, 1995), and Map of Snow, Ice, Frozen Ground in China (1:4,000,000) (Yafeng Shi and Desheng Mi, 1988), with editing on 1,000,000 aerial survey topographic maps, and the 1:3,000,000 Map of Permafrost on the Qinghai-Tibetan Plateau was then generated. It was later digitized by Zhuotong Nan of the Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences.  
The data include:  
1) Digitized distribution map of frozen soil on the Qinghai-Tibetan Plateau  
2) Scanned map of frozen soil map on the Qinghai-Tibetan Plateau  
The types of frozen soil in the digitized frozen soil map include:  
0. Seasonally frozen ground; seasonal frozen soil  
1. Permafrost  
2. Island permafrost;   
3. Continuous permafrost;

2、Keywords

Theme：Frozen ground distribution,Frozen Ground  
Discipline：Cryosphere  
Places：Tibetan Plateau   
Time：

3、Data details

1.Scale：3000000

2.Projection：Albers

3.Filesize：490.0MB

4.Data format：shp

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：75.0 | - | east：105.0 |
| - | south：26.0 | - |

5、Time frame:1983-01-17 08:00:00+00:00--1997-01-16 08:00:00+00:00

6、Reference method

References to data:

NAN Zhuotong, LI Shude, CHENG Guodong, TONG Boliang. Map of permafrost on the Qinghai-Tibet Plateau (1:3,000,000) (1983-1996). A Big Earth Data Platform for Three Poles, doi:10.11888/Geocry.tpdc.2700142011

References to articles:

南卓铜, 李述训, & 刘永智. (2002). 基于年平均地温的青藏高原冻土分布制图及应用. 冰川冻土, 24(2).  
  
南卓铜, 黄培培, & 赵林. (2013). 青藏高原西部区域多年冻土分布模拟及其下限估算. 地理学报, 68(3), 318-327.  
  
李树德, 程国栋. (1996). 青藏高原冻土图. 兰州, 甘肃文化出版社.

7、Supporting project information

8、Data resource provider

name: NAN Zhuotong  
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences  
email: nztong@lzb.ac.cn  
  
name: LI Shude  
unit:   
email:   
  
name: TONG Boliang  
unit:   
email:   
  
name: CHENG Guodong  
unit:   
email: