

Poles data in China



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Institute of Tibetan Plateau Research,
Chinese Academy of Sciences

Data Centers for Polar Data in China

- Cold and Arid Regions Science Data Center (Lanzhou)
- Chinese National Arctic and Antarctic Data Center (Shanghai)
- Third Pole Environment Database (Beijing)



中国西部环境与生态科学数据中心
Environmental and Ecological Science Data Center for West China

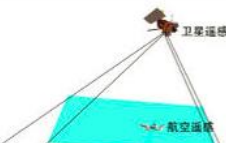
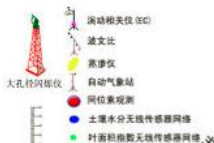


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中国西部Landsat ETM遥感数据集

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1. 中国1km分辨率数字高程模型数据集
2. 中国1:100万植被数据集
3. 黑河流域ASTER遥感影像数据集
4. 中国1:400万植被图
5. 黑河流域1:100万植被类型图

统计

统计数据显示, 目前本站:

- 元数据 756 条
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Data Collections

WATER

Data Discovery

By Category

By Keyword

By Series

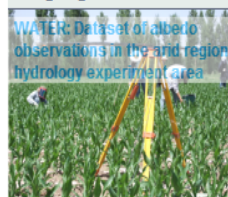
Timeline

TimeMap

Online Data

Offline Data

Highlights

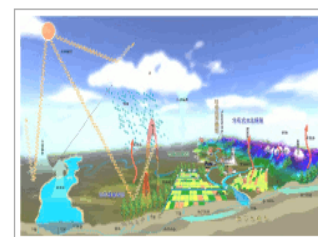


Links



Cold and Arid Regions Environmental
and Engineering Research Institute
Chinese Academy of Sciences

- World Data System
- WDC for Glaciology and Geocryology, Lanzhou



Watershed Allied Telemetry Experimental Research

The Watershed Allied Telemetry Experimental Research (WATER) is an airborne, satellite- and ground-based integrated remote sensing experiment aiming to improve the observing ability of remote sensing technique, and understanding and predictability of hydrological and related ecological processes on catchment scale. Under the auspices of the Chinese Academy of Sciences (CAS), it was started as a CAS's West Action Plan project, and later was jointly supported by the State Key Basic Research Project "Theory and method for a synthetic retrieval of terrestrial ecological variables from both active and passive remote sensing approaches" under the auspices of the Chinese Ministry of Science and Technology of China (MOST).

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News

new Open Access 'Geoscience Data Journal', specifically for describing geospatial datasets

Spatiotemporal variability of permafrost degradation on the Qinghai-Tibet Plateau

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Cold and Arid Regions Science
Data Center at Lanzhou

Chinese National Arctic and Antarctic Data Center

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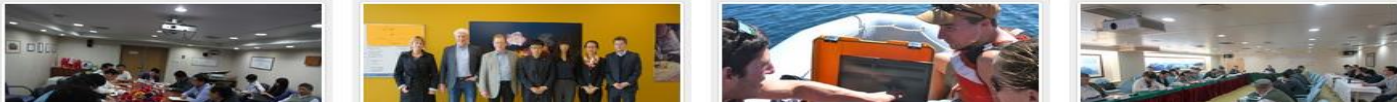
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Antarctic Land Cover Map 1:9000000 (Citation: Fengming Hui, Jian Liu, Cheng Xiao. Antarctic Land Cover Map 1:9000000. Data-sharing Platform of Polar Science, 2013.)

Latest Dataset

Publish Date	Title	Location	Author	Data size
2013-11-05	Dataset of Zhongshan Station GPS tracking station system from 2004 to 2005	Zhongshan Station	null null null	434.8 MB
2013-11-05	Data of zooplankton community composition of Prydz Bay, Antarctica, during 199...	Prydz Bay	null null null	84.5 KB
2013-11-04	Satellite Image of Chinese Antarctic Research Stations-Zhongshan Station	Zhongshan Station	Jian Liu	5.6 MB
2013-10-17	Data of nutrients concentrations in Antarctic Peninsula during the 28th CHINARE...	Antarctic Peninsula	Zhengbing H...	38.2 KB
2013-10-16	Antarctic Land Cover Map 1:9000000	Polar regions, Antarctica	null null null , ...	2.2 MB
2013-10-16	Data of nutrients concentrations in Prydz Bay Antarctic during the 29th CHINARE,...	Prydz Bay	Zhengbing H...	39.5 KB
2013-10-13	Data of profile chlorophyll a during CHINARE-24th from 2007 to 2008	Circumpolar	null null null	47.5 KB
2013-10-11	CTD dataset in Antarctic during the 28th Chinese Antarctic Research Expedition ...	Prydz Bay, Southern Ocean	Hongxia Chen	1.3 MB

News



<http://www.chinare.org.cn/cn/index/> (in Chinese)

<http://www.chinare.org.cn/en/index/> (in English)

Third Pole Environment Database

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English 中文

 **Third Pole Environment Database**

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Latest events

- [2012.03.30] Namco meteorological data set (2005–2009)
- [2012.03.28] Muztagata meteorological data set (2003–2005)
- [2012.03.27] Tibetan Plateau environmental isotope data (2005–2009) *
- [2012.03.26] Data of Tibet Plateau population changes in sequence (1970–2006) *
- [2012.03.25] Nam Co glacier hydrological stations observational data set (2007–2008) *
- [2012.03.22] Tibetan Plateau lakes diatoms – salinity convert relational database *
- [2012.03.17] Data of Tibetan Plateau GDP changes in sequence (1970–2006) *
- [2012.03.13] Observational data sets of the eastern edge of the forest ecosystem on Tibetan Plateau (2005–2008) *
- [2012.03.13] Yangzhuoyongcuo lake cores pollen spectrum temperature / precipitation reconstruction sequence database of South Tibet...
- [2012.03.12] Tibetan Plateau the Goluo meadow ecosystem observational data sets(2006–2009) *
- [2012.03.11] The basic database of the northern Tibetan Plateau Atmospheric Boundary Layer(1997–2008) *
- [2012.03.10] hydrological characteristics value at Jiangzi Hydrological Station of Nianchuhe, Yarlung Zangbo River *

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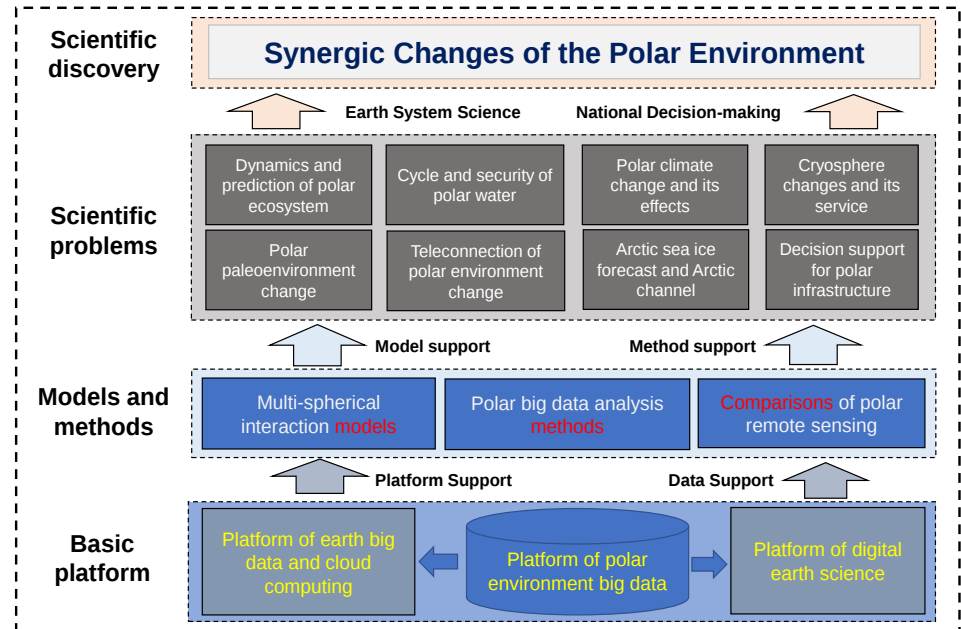
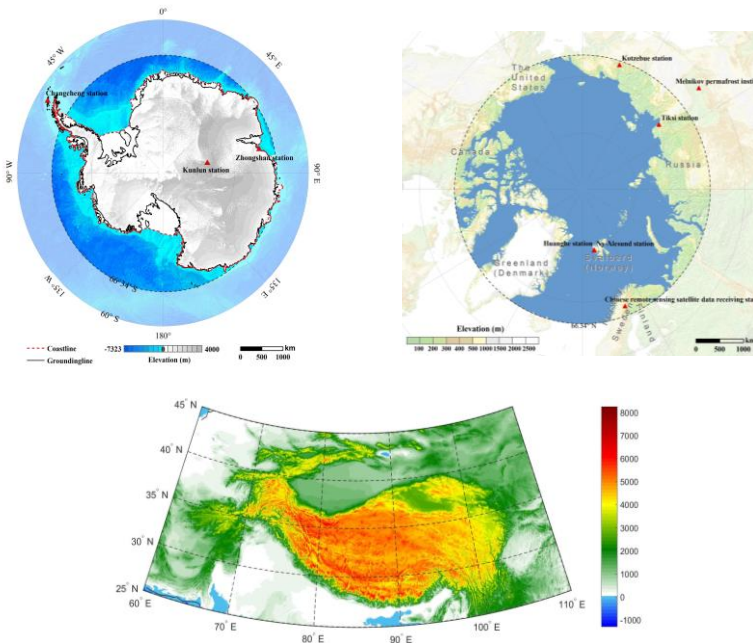
*Dataset which has * can be accessed after you login.*

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<http://www.tpedatabase.cn>

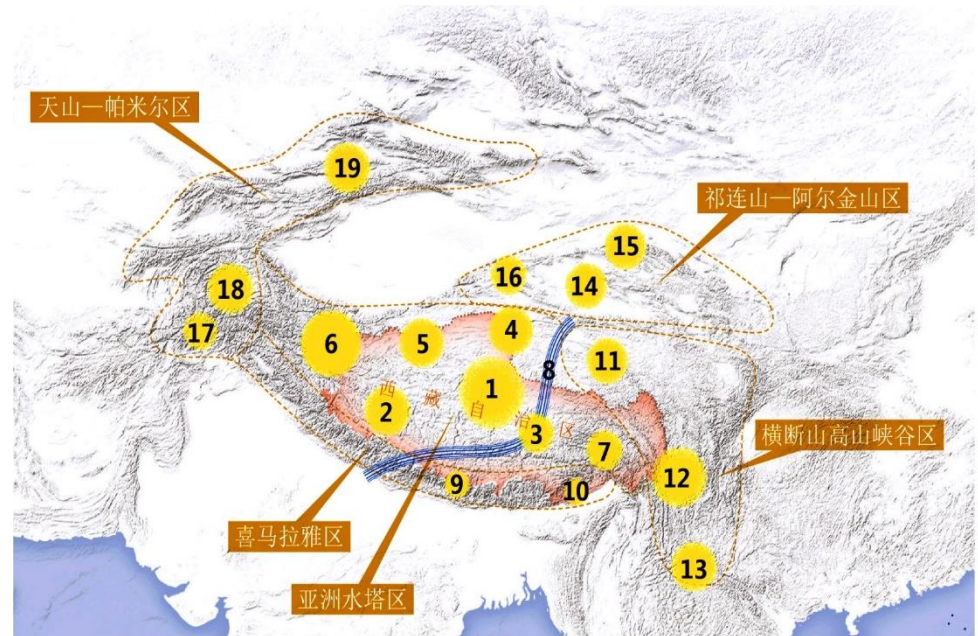
Recent efforts in China

- CASEarth Poles: A Big Earth Data Platform for Three funded by the Strategic Priority Research Program of the Chinese Academy of Sciences
- The environment and climate change in three poles planned by the Ministry of Science and Technology



Recent efforts in China

- The data center for the 2nd Tibetan Plateau Scientific Expedition funded by the Ministry of Science and Technology
- An-Third Pole Environment Study for a Green Silk Road funded by the Strategic Priority Research Program of the Chinese Academy of Sciences



CAS Poles big data platform

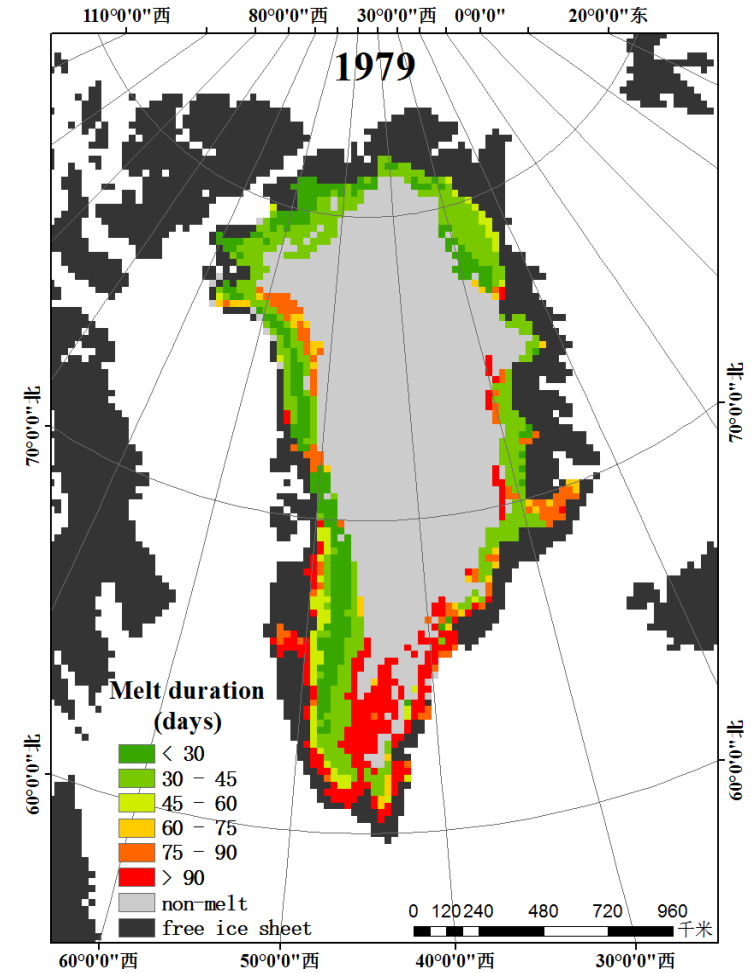
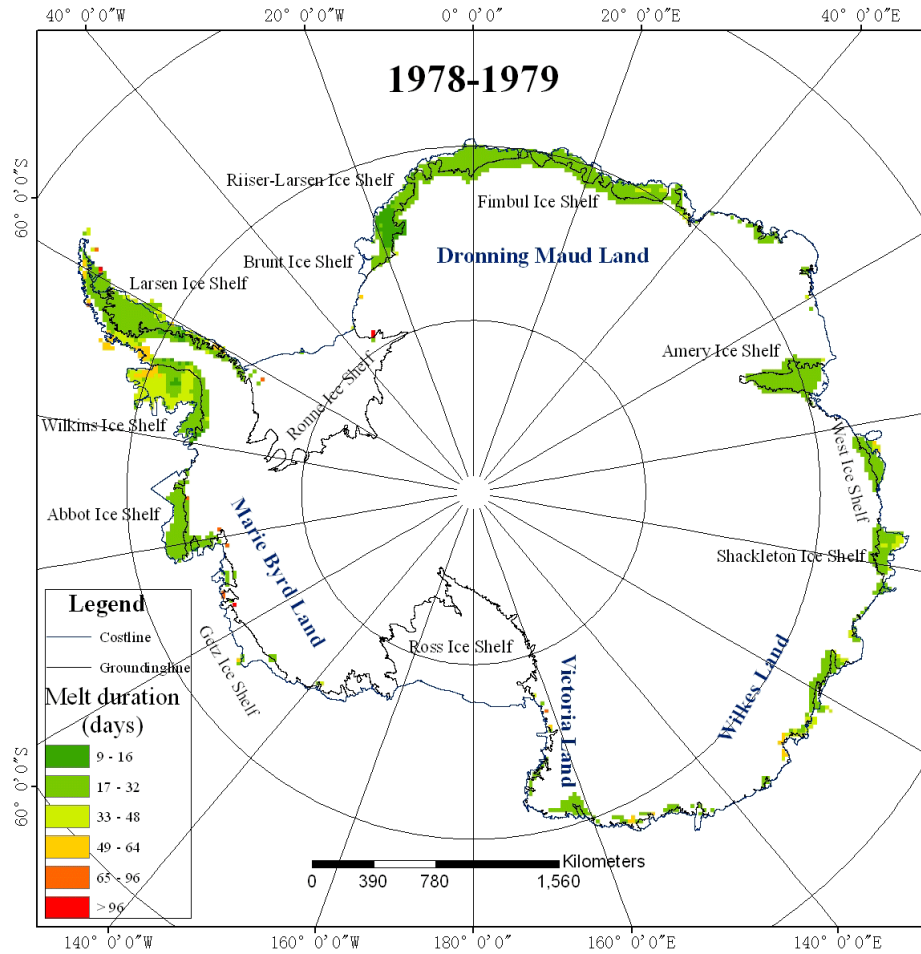


- Data sharing with multiple layers (for modeling, computing, visualization)
- Service with different clients (Web, Mobile app, Web Service and SNS)
- Integrated with Hadoop & Spark
- Based on the ISO 19115/19139 Metadata
- Intellectual property protection for research data via DOI/Data Citation Index

- Antarctica and Arctic Ice Sheet Snowmelt Dataset
- Antarctica Ice Sheet Surface Elevation
- Sea ice concentration
- Key variables of water cycle in Arctic 1998-2017
- Global snow depth 1998-2017

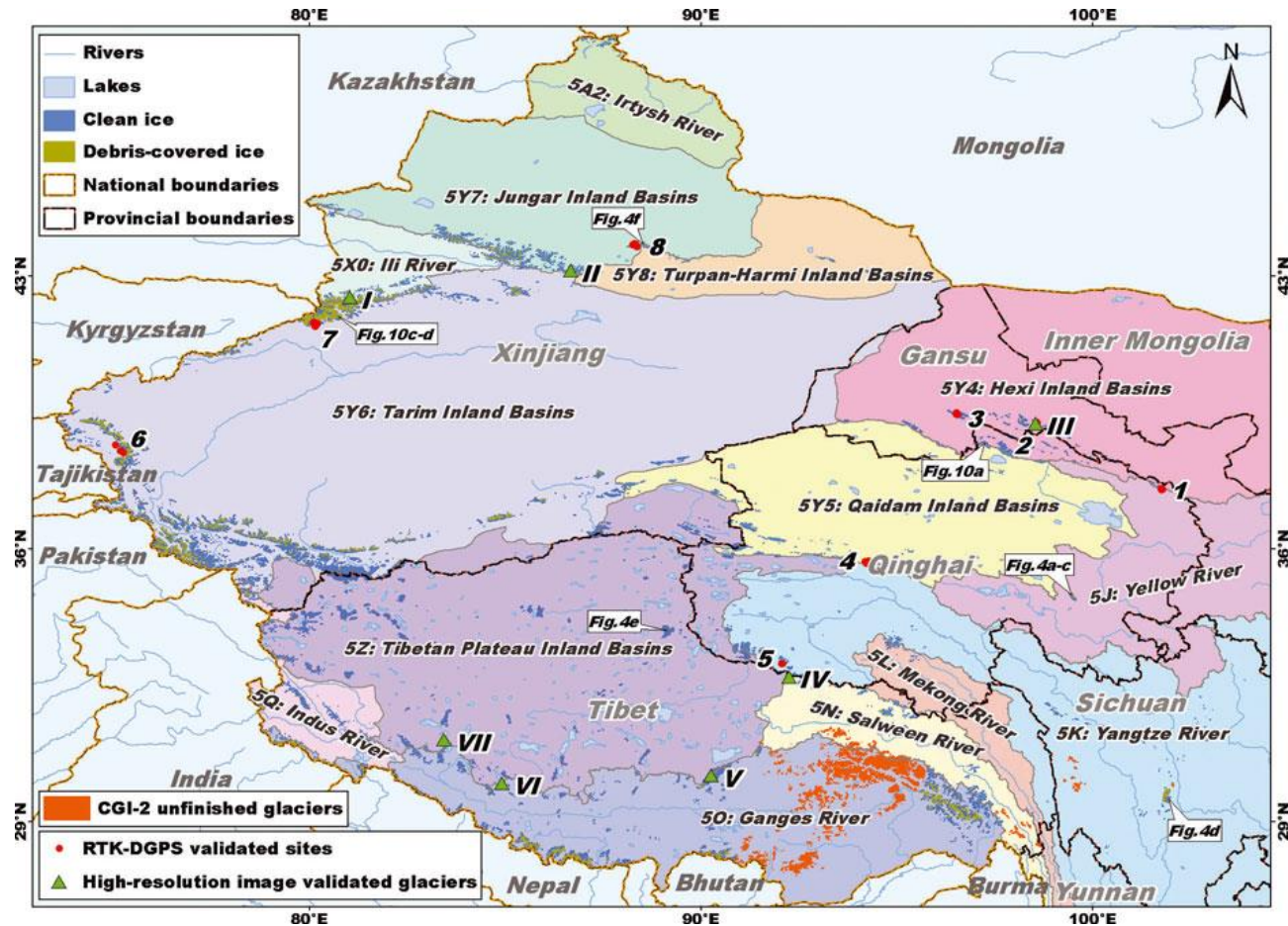
<http://www.poles.ac.cn/#>

Freeze/thaw of ice sheet



The Second Glacier Inventory

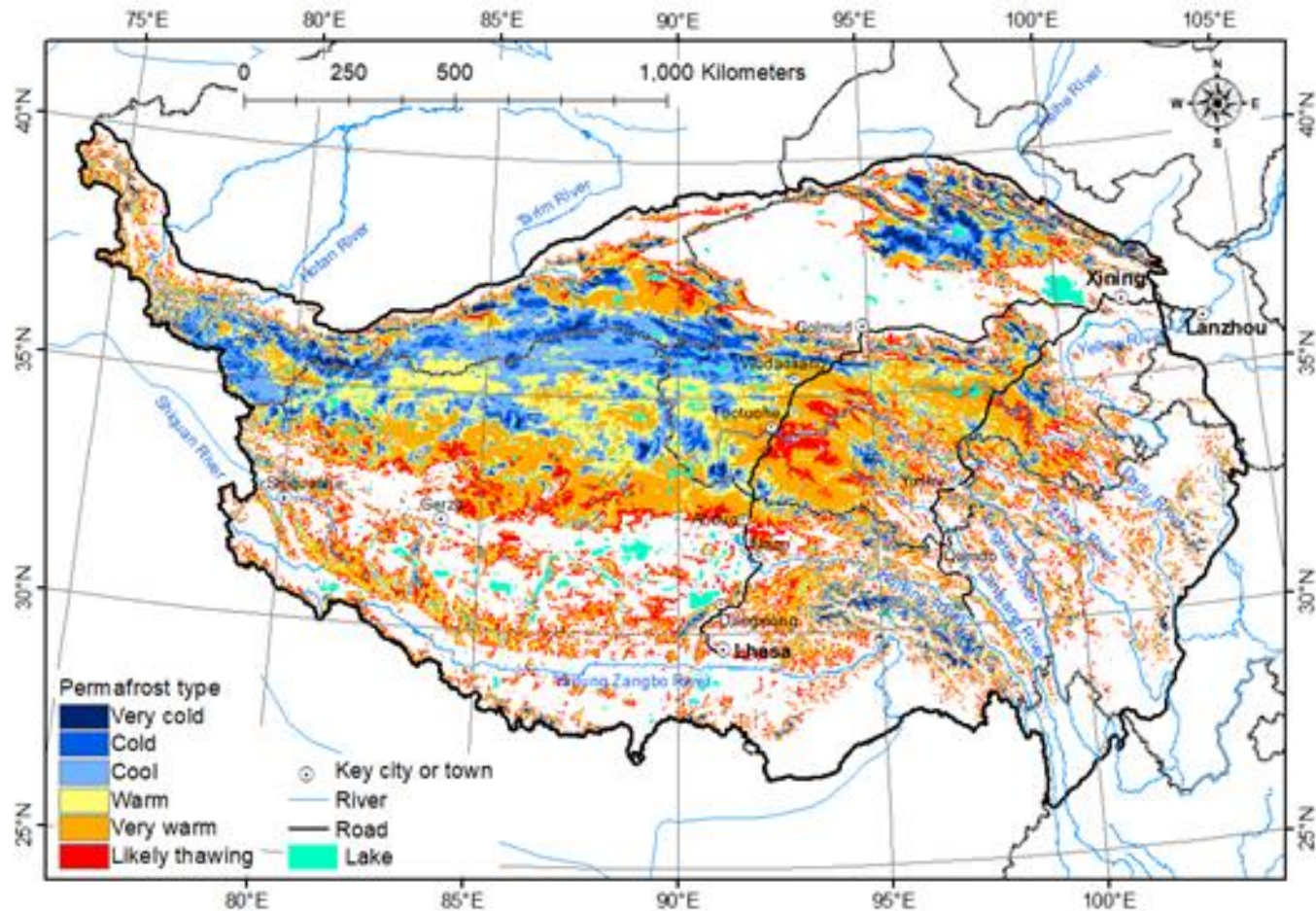
doi:10.3972/glacier.001.2013.db



Guo WQ, Liu SY, Xu JL, Wu LZ, Shangguan DH, Yao XJ, Wei JF, Bao WJ, Yu PC, Liu Q, Jiang ZL. The second Chinese glacier inventory: Data, methods and results. *Journal of Glaciology*, 2015, 61(226): 357-372.

Permafrost stability map on the Qinghai-Tibetan Plateau

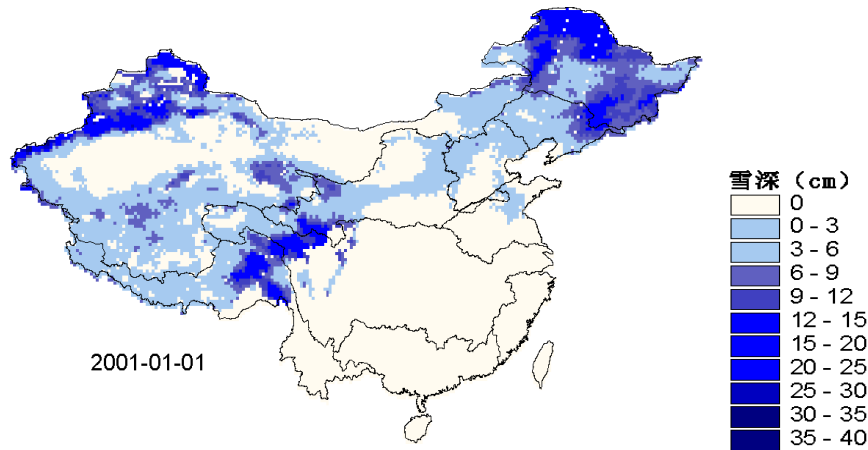
<http://www.poles.ac.cn/data/d8776cb4-15d8-4ac7-a378-742e9a60d674>



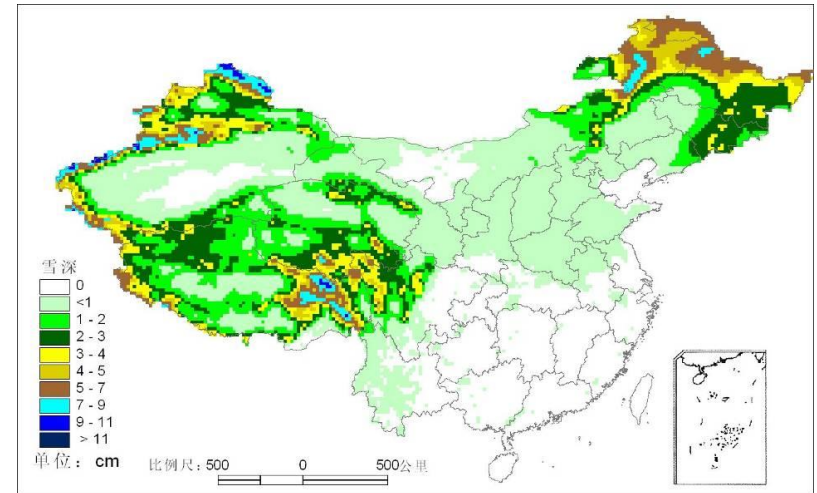
Ran YH, Li X, Cheng GD. Climate warming over the past half century has led to thermal degradation of permafrost on the Qinghai-Tibet Plateau. *The Cryosphere*, 2018, 12(2): 595-608.

Snow depth datasets

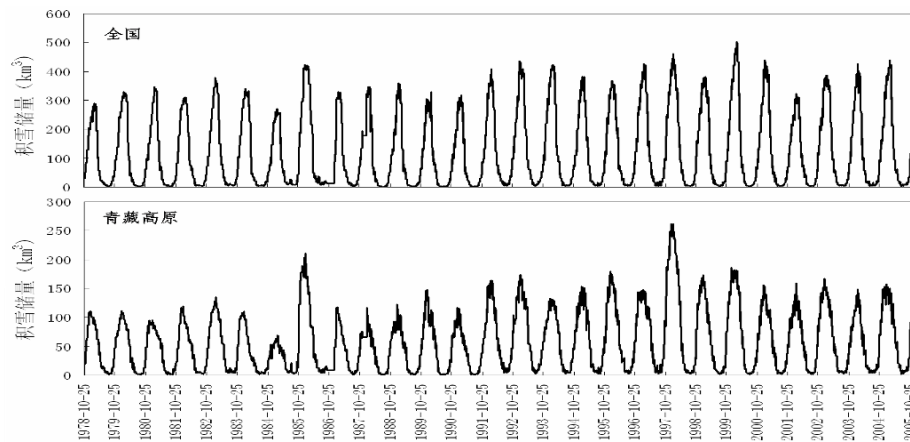
doi: [10.3972/westdc.001.2015.db](https://doi.org/10.3972/westdc.001.2015.db)



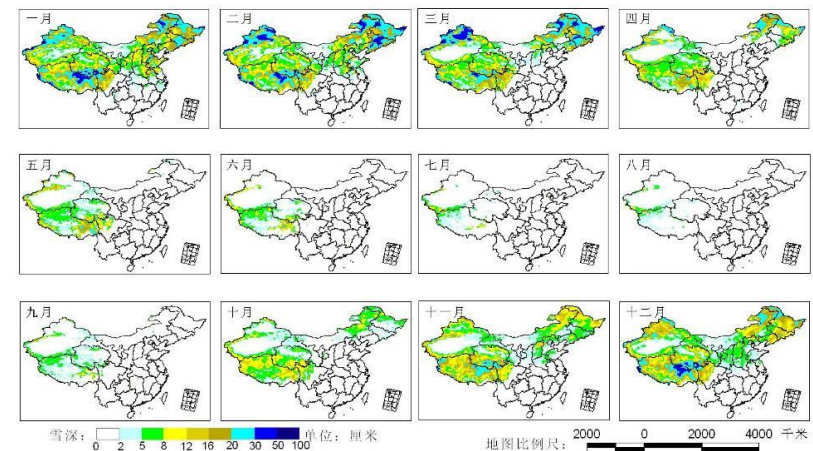
Daily snow depth of 2001



Mean snow depth (1978-2005)



Snow depth variation from 1978 to 2005



Monthly maximum snow depth

Che et al., 2008; Che T, Li X, Jin R, Armstrong RL, Zhang TJ. Snow depth derived from passive microwave-remote sensing data in China. *Annals of Glaciology*, 2008, 49: 145-154.

Dai et al., 2012, *Remote Sensing of Environment*; Dai et al., 2015, *Remote Sensing*.

**Thank you for
your attentions**

