A Big Earth Data Platform for Three Poles

**Long time series data of snow cover area on Qinghai-Tibet Plateau (2003-2014)**

1、Description

The long-time series data set of snow cover area on the qinghai-tibet plateau is derived from the fusion of MODIS 005 version and IMS data set, andThe cloud-free products of daily snow cover area were obtained by using interpolation de-cloud algorithm.The projection is latitude and longitude, the spatial resolution is 0.005 degrees (about 500m), and the time is a long time series from January 1, 2003 to December 31, 2014. Each file is the result of the proportion of snow cover area on that day, and the value is 0-100 (%). It is the ENVI standard file, The naming convention： ims\_mts\_yyyyddd.tif, where YYYY stands for year and DDD stands for Julian day (001-365/366).Files can be directly used ENVI or ARCMAP software open view.
Document description: 200 snow, 100 lake ice, 25 land, 37 sea

2、Keywords

Theme：Snow area,Snow,Snow cover
Discipline：Cryosphere
Places：Tibetan Plateau
Time：2003-2014

3、Data details

1.Scale：None

2.Projection：

3.Filesize：2350.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.0 | - |
| west：70.0 | - | east：105.0 |
| - | south：24.0 | - |

5、Time frame:2003-01-22 08:00:00+00:00--2015-01-21 19:59:59+00:00

6、Reference method

References to data:

HAO Xiaohua. Long time series data of snow cover area on Qinghai-Tibet Plateau (2003-2014). A Big Earth Data Platform for Three Poles, doi:10.11888/Snow.tpdc.2704712019

References to articles:

Hao, X.H., Luo, S.Q., Che, T., Wang, J., Li, H.Y., Dai, L.Y., Huang, X.D., &Feng, Q.S. (2019). Accuracy assessment of four cloud-free snow cover products over the qinghai-tibetan plateau. International Journal of Digital Earth,12 (4), 375-393.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program
Project of national natural science foundation of China: research on subpixel scale snow particle size and pollutant remote sensing inversion

8、Data resource provider

name: HAO Xiaohua
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
email: haoxh@lzb.ac.cn