A Big Earth Data Platform for Three Poles

**Surface meteorological driving dataset of the Qinghai Tibet Plateau (2017-2018)**

1、Description

1) The data set driven by the surface meteorological elements of the surface meteorological observation data product (2017-2018) of the Qinghai Tibet Plateau includes four elements: near surface temperature, surface precipitation rate, short wave radiation and long wave radiation.
2) The data set is based on the existing Princeton reanalysis data, GLDAS data, gewex-srb radiation data and TRMM Precipitation Data in the world as the background field, and integrates the conventional meteorological observation data of China Meteorological Administration, and is formed by spatial interpolation.
3) The data is TIFF format, the temporal resolution is daily value, and the spatial resolution is 0.1 °.
4) It is convenient for researchers and students who do not use such assimilation data in NC format. Based on the long-term observation data of each field station in the alpine network and overseas stations in the pan third polar region, a series of data sets of meteorological, hydrological and ecological elements in the pan third polar region are established; the inversion of data products such as meteorological elements, lake water quantity and quality, aboveground vegetation biomass, glacial and frozen soil changes are completed through enhanced observation and sample site verification in key regions; based on the IOT Network technology, the development and establishment of multi station network meteorological, hydrological, ecological data management platform, to achieve real-time access to network data and remote control and sharing.

2、Keywords

Theme：Precipitation,Temperature,Near surface temperature
Discipline：Atmosphere
Places：Qinghai-Tibetan Plateau
Time：2017-2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1136.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.0 | - |
| west：103.0 | - | east：75.0 |
| - | south：27.0 | - |

5、Time frame:2017-01-14 16:00:00+00:00--2019-01-13 16:00:00+00:00

6、Reference method

References to data:

ZHU Liping. Surface meteorological driving dataset of the Qinghai Tibet Plateau (2017-2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2703952020

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

name: ZHU Liping
unit: Institute of Tibetan Plateau Research, CAS
email: lpzhu@itpcas.ac.cn