A Big Earth Data Platform for Three Poles

**Surface meteorological observation data product of TP (1979-2016)**

1、Description

1)Data content (including elements and meanings): surface meteorological observation data product of TP in 1979-2016  
2)Data source and processing method: In .tif format, can be opened and analysed in arcgis.  
3)Data quality description: daily resolution  
4)Data application results and prospects: Based on the long-term observation data of the 17 stations of HORN, establish a series of data series of meteorological, hydrological and ecological elements in the Pan-Earth region; Strengthen observation and sample and sample verification, and complete the inversion of meteorological elements, lake water quantity and water quality, aboveground vegetation biomass, glacier and frozen soil changes; based on Internet of Things technology, develop multi-station networked meteorological, hydrological, The ecological data management platform realizes real-time acquisition and remote control and sharing of networked data.

2、Keywords

Theme：Precipitation,Hydrology  
Discipline：Atmosphere,Terrestrial Surface  
Places：HORN, Tibetan Plateau  
Time：1979-2016

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：2.36MB

4.Data format：None

4、Space scope

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

5、Time frame:1979-01-16 08:00:00+00:00--2017-01-15 08:00:00+00:00

6、Reference method

References to data:

ZHU Liping. Surface meteorological observation data product of TP (1979-2016). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2700622019

References to articles:

彭萍, 朱立平, (2017). 基于野外站网络的青藏高原地表过程观测研究, 科技导报, 35(6), 97-102.

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