A Big Earth Data Platform for Three Poles

**Time space matching data set of water and soil resources in the Qinghai Tibet Plateau (1970-2016)**

1、Description

The matching data of water and soil resources in the Qinghai Tibet Plateau, the potential evapotranspiration data calculated by Penman formula from the site meteorological data (2008-2016, national meteorological data sharing network), the evapotranspiration under the existing land use according to the influence coefficient of underlying surface, and the rainfall data obtained by interpolation from the site rainfall data in the meteorological data, are used to calculate the evapotranspiration under the existing land use according to the different land types of land use According to the difference, the matching coefficient of water and soil resources is obtained. The difference between the actual rainfall and the water demand under the existing land use conditions reflects the matching of water and soil resources. The larger the value is, the better the matching is. The spatial distribution of the matching of soil and water resources can pave the way for further understanding of the agricultural and animal husbandry resources in the Qinghai Tibet Plateau.

2、Keywords

Theme：Precipitation,Topographic shadow,Precipitation,Evapotranspiration,Surface Water,Land use,Sunshine,Watershed characteristics,Land Resources,Atmospheric circulation,Rain,Soil water,Water Resources,Humidity/Dryness,Hydrology  
Discipline：Atmosphere,Terrestrial Surface,Human-nature Relationship  
Places：Qinghai Tibet Plateau  
Time：From One thousand nine hundred and seventy to Two thousand and sixteen

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：26.2MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.89 | - |
| west：73.13 | - | east：105.0 |
| - | south：22.54 | - |

5、Time frame:1970-01-18 08:00:00+00:00--2017-01-17 19:59:59+00:00

6、Reference method

References to data:

DONG Lingxiao. Time space matching data set of water and soil resources in the Qinghai Tibet Plateau (1970-2016). A Big Earth Data Platform for Three Poles, doi:10.11888/Hydro.tpdc.2704552020

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: DONG Lingxiao  
unit: Wuhan University  
email: 1225969012@lqq.com.cn