A Big Earth Data Platform for Three Poles

**Meteorological drought index data set of 34 key nodes of Pan third pole precipitation anomaly percentage (2014-2015)**

1、Description

Under the background of global warming, the frequency and intensity of drought are increasing. The lack of water resources, food crisis and ecological deterioration (such as desertification) caused by drought disasters directly threaten the national food security and social and economic development. The technical level of drought disaster risk assessment and emergency management needs to be improved. One belt, one road area has one belt, one road area is fragile, agricultural land is concentrated and drought is frequent. Monitoring the drought level and its temporal and spatial changes in large areas by using remote sensing satellites is of great scientific and practical significance for scientifically grasping the drought pattern, regional differentiation characteristics and its impact on agricultural land in the "one belt and one road" area. The percentage of precipitation anomaly reflects the deviation degree between the precipitation of a certain period and the average state of the same period, expressed as a percentage.  
Based on the daily rainfall data of GPM imerg final run (GPM), the precipitation of corresponding area is calculated. The distribution characteristics of drought of different grades are analyzed by using the grade evaluation index of precipitation anomaly percentage. The spatial resolution is 200m.  
The data area is 34 key nodes of Pan third pole (Abbas, Astana, Colombo, Gwadar, Mengba, Teheran, Vientiane, etc.).

2、Keywords

Theme：Extreme drought,Precipitation,Natural Disaster  
Discipline：Atmosphere,Human-nature Relationship  
Places：Pan-Third Pole  
Time：2014-2015

3、Data details

1.Scale：None

2.Projection：

3.Filesize：10500.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：82.0 | - |
| west：12.0 | - | east：180.0 |
| - | south：-11.0 | - |

5、Time frame:2014-01-04 16:00:00+00:00--2016-01-03 16:00:00+00:00

6、Reference method

References to data:

WU Hua. Meteorological drought index data set of 34 key nodes of Pan third pole precipitation anomaly percentage (2014-2015). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2710052020

References to articles:

Zhang, Q., Zou, X., & Xiao, F. (2006). Classification of meteorological droughts. Standards Press of China Tech. Rep. GB/T20481-2006, 17.

7、Supporting project information

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

8、Data resource provider

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