A Big Earth Data Platform for Three Poles

**Dataset of the multi-year average of relative humidity for the Green Silk Road (Version 1.0)**

1、Description

Temperature-humidity index (THI) was adopted to evalulate the climate suitability for the Green Silk Road. The relative humidity isone of the basic parameters to calculate THI. Refering to theTHI model of Tanget al. (2008), the multi-year average of relative humidity is calculted based on the observation data (1981-2017) of weather stations provided by National Meteorological Information Center. The multi-year average values were interpolated into the raster dataset at the resolution of 11km×1km by Kriging method based on GIS software. The climate suitability evaluation results calculated based on this dataset could highlight regional differences.

2、Keywords

Theme：Climatic Resources,Environment Pollution and Control  
Discipline：Human-nature Relationship  
Places：Pan-Third pole  
Time：2010

3、Data details

1.Scale：None

2.Projection：

3.Filesize：110.0MB

4.Data format：None

4、Space scope

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

5、Time frame:2010-01-12 08:00:00+00:00--2011-01-11 08:00:00+00:00

6、Reference method

References to data:

Dataset of the multi-year average of relative humidity for the Green Silk Road (Version 1.0). A Big Earth Data Platform for Three Poles, doi:10.11888/Socioeco.tpdc.2704812019

References to articles:

唐焰, 封志明, 杨艳昭. (2008). 基于栅格尺度的中国人居环境气候适宜性评价. 资源科学, 30(5), 648-653.

7、Supporting project information

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

8、Data resource provider