A Big Earth Data Platform for Three Poles

**Dataset of relief degree of land surface in the Green Silk Road**

1、Description

The Relief Degree of Land Surface is a comprehensive representation of regional altitude and surface cutting degree. Using the resampled Digital Elevation Model data and the Feng(2007) Model, the Relief Degree of Land Surface dataset of the Green Silk Road in 1km resolution was developed. The dataset includes the spatial distribution data of the Relief Degree of Land Surface, elevation, and flat area at 1km covering the Green Silk Road, as well as each country of the Green Silk Road.

2、Keywords

Theme：Ups and downs,Digital elevation model,Topography
Discipline：Terrestrial Surface
Places：The Green Silk Road, Pan-Third pole
Time：2010

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：1146.88MB

4.Data format：None

4、Space scope

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

5、Time frame:2010-01-11 16:00:00+00:00--2011-01-10 16:00:00+00:00

6、Reference method

References to data:

XIAO Chiwei. Dataset of relief degree of land surface in the Green Silk Road. A Big Earth Data Platform for Three Poles, doi:10.11888/Geogra.tpdc.2704942019

References to articles:

Xiao, C. W., Feng, Z. M., Li, P., You, Z., & Teng, J. K. (2018). Evaluating the suitability of different terrains for sustaining human settlements according to the local elevation range in China using the ASTER GDEM. Journal of Mountain Sciences, 15(12), 2741-2751.

封志明, 唐焰, 杨艳昭, 张丹. (2007). 中国地形起伏度及其与人口分布的相关性. 地理学报, 62(10), 1073-1082.

姜鲁光, 封志明, 杨艳昭, 游珍. (2012). 基于DEM 数据的澜沧江－湄公河流域地形起伏度研究. 云南大学学报( 自然科学版), 34(4), 393-400.

Xiao, C. W., Li, P., & Feng, Z. M. (2018). Re-delineating mountainous areas with three topographic parameters in Mainland Southeast Asia using ASTER global digital elevation model data. Journal of Mountain Sciences, 15(8), 1728-1740.

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: XIAO Chiwei
unit:
email: xiaocw@igsnrr.ac.cn