A Big Earth Data Platform for Three Poles

**Landsat multi-spectral remote sensing images dataset of pan-third pole key points region (2000-2016)**

1、Description

The data sources of this dataset are the first to seventh bands of the top-of-atmosphere (TOA) reflectance data of Landsat-5 and landsat-8 satellites. Landsat satellites are sun synchronous satellite with a repetition period of 16 days. Based on the data of Landsat-5 and landsat-8 TOA reflectance from 2000 to 2016, this dataset mainly covers the pan third polar key points region in Southeast Asia and the Middle East. It uses Google Earth engine cloud computing platform to clip the data of the study area, and finally gets the 30-meter resolution multi spectral remote sensing image data of the pan third polar region 2000-2016 in TIFF format.

2、Keywords

Theme：Atmospheric remote sensing products,Atmosphere Remote Sensing
Discipline：Atmosphere,Others
Places：Pan-Third pole, Southeast Asia
Time：2000-2016

3、Data details

1.Scale：None

2.Projection：

3.Filesize：676520.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.0 | - |
| west：97.0 | - | east：102.0 |
| - | south：37.0 | - |

5、Time frame:2000-01-10 16:00:00+00:00--2017-01-09 16:00:00+00:00

6、Reference method

References to data:

GE Yong, LING Feng, ZHANG Yihang. Landsat multi-spectral remote sensing images dataset of pan-third pole key points region (2000-2016). A Big Earth Data Platform for Three Poles, 2020

References to articles:

U.S. Geological Survey, 2016, Landsat—Earth observation satellites (ver. 1.1, August 2016): U.S. Geological Survey Fact Sheet 2015–3081, 4 p., http://dx.doi.org/10.3133/fs20153081.

7、Supporting project information

8、Data resource provider

name: ZHANG Yihang
unit: Institute of Geodesy and Geophysics, CAS
email: zhangyihang12@mails.ucas.ac.cn

name: GE Yong
unit: Institute of Geographic Sciences and Natural Resources Research, CAS
email: gey@lreis.ac.cn

name: LING Feng
unit:
email: lingf@whigg.ac.cn