A Big Earth Data Platform for Three Poles

**Landsat normalized burnt ratio (NBR) products over the Tibetan Plateau (1980s-2019)**

1、Description

The dataset is the normalized burnt ratio (NBR) products from 1980s to 2019 over the Tibetan Plateau。The dataset is producted based on Landsat surface reflectance dataset. It is calculated by the NBR equation which use the difference ratio between the NIR band and SWIR1 band to enhance the feature of the burned area.And the corresponding production of quality identification documents (QA) is also generated to identify the cloud, ice and snow.NBR is usually used to extract burned area information effectively, and to monitor the vegetation restoration in burned area .

2、Keywords

Theme：Desert
Discipline：Terrestrial Surface,Remote Sensing Technology
Places：Qinghai-Tibet Plateau
Time：1980s-2019

3、Data details

1.Scale：None

2.Projection：UTM

3.Filesize：6448742.4MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.4 | - |
| west：73.4 | - | east：106.7 |
| - | south：24.6 | - |

5、Time frame:None--None

6、Reference method

References to data:

PENG Yan. Landsat normalized burnt ratio (NBR) products over the Tibetan Plateau (1980s-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2717182021

References to articles:

LOPEZ GARCIA, M.J., CASELLES, V. (1991). Mapping burns and natural reforestation using thematic mapper data. Geocarto International, 6(1), 31-37.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: PENG Yan
unit:
email: pengyan@aircas.ac.cn