A Big Earth Data Platform for Three Poles

**Landsat modified soil adjusted vegetation index (MSAVI) products over the Tibetan Plateau (1980s-2019)**

1、Description

The dataset is the modified soil adjusted vegetation index (MSAVI) products from 1980s to 2019 over the Tibetan Plateau。The dataset is producted based on Landsat surface reflectance dataset. It is calculated by the MSAVI equation which modifies the problem that SAVI is not sensitive in the dense vegetation area.And the corresponding production of quality identification documents (QA) is also generated to identify the cloud, ice and snow.MSAVI is stable in the dense vegetation area, but is not sensitive in the sparse vegetation 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：5305794.56MB

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 modified soil adjusted vegetation index (MSAVI) products over the Tibetan Plateau (1980s-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2717262021

References to articles:

HUETE, A.R. (1988). A soil- adjusted vegetation index (SAVI). Remote Sensing of Environment, 25, 295-309.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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