A Big Earth Data Platform for Three Poles

**Landsat salinity index (SI) products over the Tibetan Plateau (2020)**

1、Description

The dataset is the salinity index (SI) products of 2020 over the Tibetan Plateau。The dataset is producted based on Landsat surface reflectance dataset. It is calculated by the SI equation which is based on the method that the red band and blue band can well reflect the soil salinity.And the corresponding production of quality identification documents (QA) is also generated to identify the cloud, ice and snow.SI is usually used to quantitatively evaluate the salinized soil .

2、Keywords

Theme：salinity index,Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface
Places：Qinghai-Tibet Plateau
Time：2020

3、Data details

1.Scale：None

2.Projection：UTM

3.Filesize：100.0MB

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 salinity index (SI) products over the Tibetan Plateau (2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2723102022

References to articles:

Khan, N.M., & Sato, Y. (2001). Monitoring hydro-salinity status and its impact in irrigated semi-arid areas using IRS-1B LISS-II data. Asian Journal of Geoinform, 1(3), 63-73.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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