A Big Earth Data Platform for Three Poles

**Impervious surface product of Qinghai-Tibet Plateau with 10m resolution (2018)**

1、Description

Data content: The data set products include impervious surface products with a resolution of 10 meters in the Qinghai-Tibet Plateau, which can be used as a key parameter for related research on the Qinghai-Tibet Plateau ecosystem. Data source and processing method: Product inversion is mainly based on Sentinel series data, considering joint features, combining depth spatial features, long-time NDVI and other exponential features, and topographic features, and using random forest model to achieve impervious surface information extraction. Data quality: The overall accuracy is high. Data application results and prospects: The data set will be continuously updated and can be used to further clarify the impact of human activities on the ecosystem of the Qinghai-Tibet Plateau.

2、Keywords

Theme：Desert  
Discipline：Terrestrial Surface,Remote Sensing Technology  
Places：Qinghai Tibet Plateau  
Time：2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：878.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：45.0 | - |
| west：70.0 | - | east：110.0 |
| - | south：20.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

WANG Guizhou. Impervious surface product of Qinghai-Tibet Plateau with 10m resolution (2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2715292021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: WANG Guizhou  
unit:   
email: wanggz@aircas.ac.cn