A Big Earth Data Platform for Three Poles

**Antarctic pioneer plant cover classification data (2017-2018)**

1、Description

The Antarctic Peninsula is also called "Palmer peninsula" or "Graham land". Located in the southwest polar continent, it is the largest peninsula in the Antarctic continent and the farthest peninsula extending northward into the ocean (63 ° south latitude), bordering the Weddell Sea and berengske sea in the East and West. The Antarctic Peninsula is known as the "tropics" of Antarctica. This is a typical sub polar marine climate. Compared with the Antarctic continent, it is one of the warmest and wettest regions in Antarctica. There are a small number of pioneer plants distributed on the islands in the marginal area, mainly bryophytes and lichens. The plant abundance data products of Antarctic Peninsula and its surrounding areas are matched with remote sensing images through measured spectra, and the end element spectra of moss, lichen, rock, sea and snow are extracted with pure pixel PPI. The linear mixture model (LMM) is applied to calculate. The vegetation coverage of Fildes Peninsula is obtained according to the linear relationship between the vegetation coverage and the abundance.

2、Keywords

Theme：Vegetation,Fractional cover,Land cover  
Discipline：Terrestrial Surface  
Places：Antarctic Peninsula  
Time：2017-2018

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：218.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：-60.0 | - |
| west：0.0 | - | east：180.0 |
| - | south：-90.0 | - |

5、Time frame:2017-01-07 00:00:00+00:00--2019-01-06 00:00:00+00:00

6、Reference method

References to data:

XU Xiyan. Antarctic pioneer plant cover classification data (2017-2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2702662019

References to articles:

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider

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