A Big Earth Data Platform for Three Poles

**NDVI change data set on the different permafrost regions in Northern Hemisphere during 1982-2015**

1、Description

From 1982 to 2015, the NDVI change data sets of different types of permafrost regions in the northern hemisphere have a temporal resolution of once every five years, covering the entire Arctic countries with a spatial resolution of 8km. Based on multi-source remote sensing, simulation, statistics and measured data, the regulation and service functions of Permafrost on Ecosystem in the northern hemisphere are quantified by using GIS and ecological methods, All the data are under quality control.

2、Keywords

Theme：Frozen Ground  
Discipline：Cryosphere  
Places：circumarctic  
Time：from 1982 to 2015

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：6.25MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：27.0 | - |
| west：0.0 | - | east：180.0 |
| - | south：90.0 | - |

5、Time frame:1982-01-06 00:00:00+00:00--2016-01-05 00:00:00+00:00

6、Reference method

References to data:

WANG Shijin. NDVI change data set on the different permafrost regions in Northern Hemisphere during 1982-2015. A Big Earth Data Platform for Three Poles, 2020

References to articles:

Peng, X., Zhang, T., Frauenfeld, O.W., Wang, S., Qiao, L., Du, R., & Mu, C. (2020). Northern hemisphere greening in association with warming permafrost. Journal of Geophysical Research: Biogeosciences, 125, e2019JG005086. https://doi.org/ 10.1029/2019JG005086.

7、Supporting project information

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

8、Data resource provider

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