A Big Earth Data Platform for Three Poles

**Annual land cover data of 18 key node areas in Southeast Asia (2001-2016)**

1、Description

Land cover dataset of MODIS is a product that describes the types of land cover based on the data obtained from Terra and Aqua observations for one year. The land cover dataset contains 17 major land cover types, including 11 natural vegetation types, 3 land development and mosaic types and 3 non-vegetation land types according to the International Geosphere Biosphere Project (IGBP). MCD12Q1 adopts five different land cover classification schemes. The main technology of information extraction is supervised decision tree classification. Based on MCD12Q1 data from 2001 to 2016, MatLab was used to tailor the masks of 18 key nodes in Southeast Asia and middle East. Finally, the annual land cover dataset of 18 key nodes in Southeast Asia from 2001 to 2016 was obtained.

2、Keywords

Theme：Land Use/Land Cover,Ecological remote sensing products,Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：Southeast Asia, Pan-Third Pole  
Time：2001-2016

3、Data details

1.Scale：None

2.Projection：

3.Filesize：87.4MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：58.68 | - |
| west：-3.31 | - | east：110.9 |
| - | south：-1.09 | - |

5、Time frame:2000-01-08 16:00:00+00:00--2017-01-07 16:00:00+00:00

6、Reference method

References to data:

GE Yong, LING Feng, ZHANG Yihang. Annual land cover data of 18 key node areas in Southeast Asia (2001-2016). A Big Earth Data Platform for Three Poles, 2019

References to articles:

Friedl, M.A., Sulla-Menashe, D., Tan, B., Schneider, A., Ramankutty, N., Sibley, A., Huang, X. (2010). MODIS Collection 5 global land  
cover: Algorithm refinements and characterization of new datasets. Remote Sens. Environ. 114, 168–182.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

name: ZHANG Yihang  
unit: Institute of Geodesy and Geophysics, CAS  
email: zhangyihang12@mails.ucas.ac.cn  
  
name: GE Yong  
unit: Institute of Geographic Sciences and Natural Resources Research, CAS  
email: gey@lreis.ac.cn  
  
name: LING Feng  
unit:   
email: lingf@whigg.ac.cn