A Big Earth Data Platform for Three Poles

**30-meter Global land cover data (2010， 2015 and 2017) for key nodes of pan-third pole region**

1、Description

Global land cover data are key sources of information for understanding the complex interactions between human activities and global change. FROM-GLC (Finer Resolution Observation and Monitoring of Global Land Cover) from Tsinghua is the 30 m resolution global land cover maps produced. The Global land cover data of all 34 key nodes of pan-third pole region are produced through analyse by argis. The classfication system is crop(10), forest(20), grass(30), shrbu(40), wetland(50), water(60), tundra(70), impervious(80), Bareland(90), snow/ice(100), cloud(120). Finally, This data set serves as the research basis for all remote sensing data and provides baseline data for the project.

2、Keywords

Theme：Ecological remote sensing products,Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface
Places：Pan-Third pole
Time：2015, 2017, 2010

3、Data details

1.Scale：None

2.Projection：

3.Filesize：80076.8MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：51.0 | - |
| west：11.0 | - | east：109.0 |
| - | south：2.0 | - |

5、Time frame:2010-01-05 00:00:00+00:00--2018-01-04 11:59:59+00:00

6、Reference method

References to data:

GE Yong, LING Feng, ZHANG Yihang. 30-meter Global land cover data (2010， 2015 and 2017) for key nodes of pan-third pole region. A Big Earth Data Platform for Three Poles, 2019

References to articles:

Gong, P., Wang, J., Yu, L., Zhao, Y., Zhao, Y., Liang, L., Niu, Z., Huang, X., Fu, H., Liu, S., Li, C., Li, X., Fu, W., Liu, C., Xu, Y., Wang, X., Cheng, Q., Hu, L., Yao, W., Zhang, H., Zhu, P., Zhao, Z., Zhang, H., Zheng, Y., Ji, L., Zhang, Y., Chen, H., Yan, A., Guo, J., Yu, L., Wang, L., Liu, X., Shi, T., Zhu, M., Chen, Y., Yang, G., Tang, P., Xu, B., Giri, C., Clinton, N., Zhu, Z., Chen, J., & Chen, J. (2013). Finer resolution observation and monitoring of global land cover: first mapping results with Landsat TM and ETM+ data. International Journal of Remote Sensing, 34(7), 2607-2654. doi:10.1080/01431161.2012.748992.

Peng, G. , Bc, D. , Xl, E. , Han, L. A. , Jie, W. , & Ybab, C. , et al. (2019). Mapping Essential Urban Land Use Categories in China (EULUC-China): preliminary results for 2018. Sci. Bull., 65(3), 182-187,
https://doi.org/10.1016/j.scib.2019.12.007

7、Supporting project information

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