A Big Earth Data Platform for Three Poles

**Dataset of above and underground biomass and soil carbon in Pan-TPE from 2015 to 2017**

1、Description

Based on the field survey, the aboveground and underground biomass of vegetation, and soil carbon and nitrogen contents in Nagqu， in the north of Zoige, eastern of Tibet plateau and the wind vacanofrom 2015 to 2017 were collected, and the data were collated and preliminarily analyzed. Dataset consists both of the aboveground and underground biomass of vegetation and soil carbon and nitrogen contents in different elevation gradient (subalpine meadow, alpine meadow, alpine shrub meadow), different moisture gradient (wetland, degraded swamp, swamp meadow, wet meadow, dry meadow and degraded meadow) and the different desertification degree (mild desertification, moderate desertification, severe desertification, desertification). The differences and trends of vegetation biomass and soil carbon and nitrogen contents under different gradients were analyzed. This dataset provides a theoretical basis for understanding and rational utilization of grassland resources, and also provides strong support for exploring the prediction of alpine grassland productivity under the global climate change.

2、Keywords

Theme：Soil,Vegetation,Soil elements composition,Soil productivity,Above-ground biomass  
Discipline：Terrestrial Surface  
Places：The wind volcano, Naqu, Zoigê County  
Time：2015-2017

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.234MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：72.0 | - | east：105.0 |
| - | south：25.0 | - |

5、Time frame:2015-01-15 00:00:00+00:00--2018-01-14 11:59:59+00:00

6、Reference method

References to data:

ZHANG Yangjian, ZHANG Xianzhou, YANG Yan, SU Peixi. Dataset of above and underground biomass and soil carbon in Pan-TPE from 2015 to 2017. A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2703602019

References to articles:

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 Xianzhou  
unit: Institute of Geographic Sciences and Natural Resources Research,Chinese Academy of Sciences  
email: zhangxz@igsnrr.ac.cn  
  
name: YANG Yan  
unit: Institute of Mountain Hazards and Environment， CAS  
email: yyang@imde.ac.cn  
  
name: ZHANG Yangjian  
unit: Institute of Geographic Sciences and Natural Resources Research, CAS  
email: zhangyj@igsnrr.ac.cn  
  
name: SU Peixi  
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences  
email: supx@lzb.ac.cn