A Big Earth Data Platform for Three Poles

**Field investigation of elements (carbon, nitrogen, phosphorus, sulfur, potassium) of vegetation in the Water tower area of Qinghai Tibet Plateau and Himalayan Mountains (2020s)**

1、Description

Carbon, nitrogen, phosphorus, sulfur and potassium are important basic life elements of ecosystem. It plays an important role in revealing the impact of its regional variation and spatial pattern on human activities and the sustainable development of ecosystem in the future. The Qinghai Tibet Plateau has unique alpine vegetation types and rich vertical zone landforms and surface cover types. The biogeographic pattern of surface elements (carbon, nitrogen, phosphorus, sulfur, potassium) is an important manifestation of the coupling of carbon, nitrogen and water cycle processes and related mechanisms of alpine ecosystems. This dataset focuses on the distribution pattern and spatial variation of surface materials (plant leaf branch stem root and litter) in the complex ecosystem of the Water tower area of Qinghai Tibet Plateau and Himalayan Mountains, in order to provide data support for regional model simulation and ecological management.

2、Keywords

Theme：Desert,Vegetation,Grassland  
Discipline：Terrestrial Surface  
Places：Asian water tower area, Himalayan Mountains  
Time：2020s

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.274MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.6 | - |
| west：79.45 | - | east：97.36 |
| - | south：28.22 | - |

5、Time frame:2019-06-30 16:00:00+00:00--2020-08-30 16:00:00+00:00

6、Reference method

References to data:

LI Mingxu . Field investigation of elements (carbon, nitrogen, phosphorus, sulfur, potassium) of vegetation in the Water tower area of Qinghai Tibet Plateau and Himalayan Mountains (2020s). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2724202022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: LI Mingxu   
unit: Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences  
email: mingxuli@igsnrr.ac.cn