A Big Earth Data Platform for Three Poles

**HiWATER: Simultaneous measurement dataset of vegetation chlorophyll content in the middle of Heihe River Basin on July. 8, 2012**

1、Description

The dataset includes the chlorophyll content of vegetation in different site which has different types of vegetation, acquired on 8 July, 2012, in order to validate the Chlorophyll products.
Observation instruments: Sampling, Acetone extraction method
Measurement methods: To analyze the influence height on chlorophyll , we select 12 different corn samples based on the height of corn. To compare the chlorophyll content of different types of vegetation, we also select 3 types of vegetation sample on the first EC tower, 1 beans sample near the seventeenth EC tower and 3 reed samples on wetland. A total of selected 19 different samples are analyzed in the laboratory in the College of Life Science, Hexi. We extract chlorophyll a, chlorophyll b, the content of total chlorophyll of selected samples.
Dataset contents: Chlorophyll a, chlorophyll b, the content of total chlorophyll
Measurement time: 8 July, 2012

2、Keywords

Theme：Vegetation,Chlorophyll,vegetation species/Classification,CASI,Remote Sensing Technology
Discipline：Terrestrial Surface,Remote Sensing Technology
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches, flux observation matrix, Zhangye wetland station
Time：2012-07-08, 2012

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.0MB

4.Data format：文本

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.9733 | - |
| west：100.3511 | - | east：100.4477 |
| - | south：38.8474 | - |

5、Time frame:2018-11-24 18:48:11+00:00--2018-11-24 18:48:11+00:00

6、Reference method

References to data:

HiWATER: Simultaneous measurement dataset of vegetation chlorophyll content in the middle of Heihe River Basin on July. 8, 2012. A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.038.2013.db2017

References to articles:

Li, X., Liu, S.M., Xiao, Q., Ma, M.G., Jin, R., Che, T., Wang, W.Z., Hu, X.L., Xu, Z.W., Wen, J.G., Wang, L.X. (2017). A multiscale dataset for understanding complex eco-hydrological processes in a heterogeneous oasis system. Scientific Data, 4, 170083. doi:10.1038/sdata.2017.83.

7、Supporting project information

Heihe Watershed Allied Telemetry Experimental Research (HiWATER)

8、Data resource provider