A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground truth measurements synchronizing with PROBA CHRIS in the Biandukou foci experimental area on Jul. 18, 2008**

1、Description

The dataset of ground truth measurements synchronizing with PROBA CHRIS was obtained in 21 quadrates of the Biandukou foci experimental area on Jul. 18, 2008. Observation items included:  
 (1) GPS by GARMIN GPS 76;  
 (2) species by manual cognition;  
 (3) the plant number by manual work,   
 (4) the height by the measuring tape repeated 4-5 times,   
 (5) the chlorophyll content by SPAD 502;  
 (6) the coverage by manual work;  
 (7) photo taking by Nikon D80 with a lens of Sigma 8mm F3.5 EX DG CIRCULAR FISHEYE, shooting straight downwards at the height of 1.5m; original photos were in JPG format and the processed data in Excel format.  
 (8) the biomass (samples over 0.5m×0.5m) by wet weight and dry weight; as Excel files.

2、Keywords

Theme：Vegetation,Chlorophyll,Biomass,Vegetation cover,Terrestrial Surface Remote Sensing,Ground verification information  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, the cold region hydrology experimental area in the upper reaches, closed observation area of Biandoukou  
Time：2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：756.8MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.312 | - |
| west：100.881 | - | east：101.036 |
| - | south：38.192 | - |

5、Time frame:2008-07-30 16:00:00+00:00--2008-07-30 16:00:00+00:00

6、Reference method

References to data:

MA Mingguo, LI Hongxing, CAO Yongpan, RAN Youhua, LIU Chao, WANG Yang. WATER: Dataset of ground truth measurements synchronizing with PROBA CHRIS in the Biandukou foci experimental area on Jul. 18, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0037.db2013

References to articles:

7、Supporting project information

The CAS (Chinese Academy of Sciences) Action Plan for West Development Project  
National Program on Key Basic Research Project (973 Program

8、Data resource provider

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