A Big Earth Data Platform for Three Poles

**WATER: Dataset of BRDF observations in the Yingke oasis and Huazhaizi desert steppe foci experimental areas**

1、Description

The dataset of BRDF observations was obtained in the Yingke oasis and Huazhaizi desert steppe foci experimental areas. Reflectance could be got based on R = (DN1/DN0)×R0, DN1 indicating DN of the item, R0 and DN0 the reflectance and DN of the grey board.  
 Synchronizing with WiDAS and OMIS-II, the ground observations on reflectance (-60°~60° at intervals of 10°) of maize and wheat were carried out with ASD (FOV: 25°) and the self-made observation platform (maximum height: 5m) on May 30, Jun. 9, 14, 20, 22, 26 and 30, and Jul. 1, 2008.   
 Raw data, recorded data and processed BRDF were archived in Excel format.

2、Keywords

Theme：Canopy spectrum,Terrain spectrometer,Vegetation,Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches,   
Time：2008-06-30, 2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：200.5MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.88 | - |
| west：100.289 | - | east：100.46 |
| - | south：38.734 | - |

5、Time frame:2008-06-08 22:00:00+00:00--2008-07-10 22:00:00+00:00

6、Reference method

References to data:

TAO Xin, ZHANG Yang, ZHANG Wuming. WATER: Dataset of BRDF observations in the Yingke oasis and Huazhaizi desert steppe foci experimental areas. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0232.db2013

References to articles:

陈玲, 阎广建, 李静, 余莹洁. 行播作物地面方向性测量的视场不确定性分析. 地球科学进展, 2009, 24(7): 793-802.

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

name: ZHANG Yang  
unit:   
email: zhangyang@lzb.ac.cn  
  
name: TAO Xin  
unit:   
email:   
  
name: ZHANG Wuming  
unit:   
email: