A Big Earth Data Platform for Three Poles

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

1、Description

The dataset of LAI measurements was obtained by LI-3000, the protractor and the ruler in the Yingke oasis and Huazhaizi desert steppe foci experimental areas on May, 20, 24, 25, 28 and 31, Jun. 6, 11, 12, 14, 16, 21 and 27, Jul. 2 and 9, 2008.  
 The maximum leaf length and width of maize and wheat, the leaf angle, length and width of each section (one leaf was divided into 3 sections) were measured. And also the plant height, leaf base height, the crop spacing, the canopy height, row spacing and ridge spacing were measured. Two representative plants would be taken back for indoor observation for the stem length, stem width, stem circumference, and leaf area by LAI3000. Data were archived in Excel format.

2、Keywords

Theme：Leaf area index,Vegetation,Biomass,Vegetation structure  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches,   
Time：2008-06-27, 2008-05-25, 2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：333.1MB

4.Data format：

4、Space scope

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

5、Time frame:2008-06-05 16:00:00+00:00--2008-07-25 16:00:00+00:00

6、Reference method

References to data:

YAN Guangkuo, FAN Wenjie, ZHOU Mengwei, ZHOU Chunyan, XIA Chuanfu, YAN Binyan, ZHANG Yang, LI Li, SU Gaoli, LIU Sihan, SHEN Xinyi, YAO Yanjuan, TAO Xin, Wen Jianguang, XIAO Yueting, XIN Xiaozhou. WATER: Dataset of LAI measurements in the Yingke oasis and Huazhaizi desert steppe foci experimental areas. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0137.db2013

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Fan W, Yan B, Xu X. Crop area and leaf area index simultaneous retrieval based on spatial scaling transformation. Sci. China Earth Sci., 2010, 53: 1709–1716.

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

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