A Big Earth Data Platform for Three Poles

**WATER: Dataset of spectral reflectance of canopy leafs observed by the integrating sphere in the Linze station foci experimental area from May to Jul, 2008**

1、Description

The dataset of spectral reflectance of canopy leafs observed by the integrating sphere was obtained by ASD Spectroradiometer (350～2 500 nm) and integrating spheres from BNU and the reference board (40% before Jun. 15 and 20% hereafter), in the Linze station foci experimental area. Maize quadrate, the desert green quadrate and withered scrub quadrate in Linze station (on May 28, 30, Jun. 19, 30 and Jul. 9), Wulidun farmland quadrates (on Jun. 24, 29 and Jul. 11) and the desert strips were measured. According to the fact that the ratio of the two DN values equals that of their reflectivity, the reflectivity and the tranmittivity can be calculated with the caliberation coefficient, reflection DN of the observed objects and reference plates. The reflectivity and the tranmittivity of interior vegetation leaves can be got by the integrating spheres.  
 Raw spectral data were archived as binary files, which were recorded daily in detail, and pre-processed data on reflectance and transmittivity were archived as text files (.txt).

2、Keywords

Theme：Reflectivity,Terrain spectrometer,Vegetation,Transmittance,Terrestrial Surface Remote Sensing,Spectral components  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches, Closed observation area of Linze station  
Time：2008-06-30, 2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：79.6MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.379 | - |
| west：100.11 | - | east：100.201 |
| - | south：39.311 | - |

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

6、Reference method

References to data:

WANG Yang, LI Shihua, YU Yingjie. WATER: Dataset of spectral reflectance of canopy leafs observed by the integrating sphere in the Linze station foci experimental area from May to Jul, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0115.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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