A Big Earth Data Platform for Three Poles

**WATER: Dataset of spectral reflectance observations of the Picea crassifolia at the super site around the Dayekou Guantan forest station**

1、Description

The dataset of spectral reflectance observations of the Picea crassifolia was obtained at the super site around the Dayekou Guantan forest station. Six measurements were carried out altogether, including three outdoors and three indoors.  
 (1) Outdoor multiangle (-60°, -50°, -40°, -30°, -20°, -0°, 10°, 20°, 30°, 40°, 50° and 60°) and four-component (the sunshine and the shaded canopy, the sunshine and the shaded land) spectrum of Qinghai spruce was measured by ASD, FieldSpec Pro and the observation platform (of BNU make) on Jun. 10 and 11, 2008. Optical fibres of 1m and 10m were used as required. Data were archived as Excel files.  
 (2) Indoor observations by the integrating sphere, Li－Cor 1800-12s (BNU), ASD and FieldSpec Pro were carried out on Jun. 5, 0 and 10, 2008. They were mainly for trees of different ages, reflectance of Qinghai spruce bark, and reflectance and transmission. The data can only be opened by ASD ViewSpecPro; the processed spreadsheet file can be opened by Microsoft Excel.  
 (3) Vertical ground object (scrub, meadow, moss, the shaded moss, litter, the bare land, Qinghai spruce of different ages) spectrum was measured by ASD and FieldSpec Pro on Jun. 4, 2008. Optical fibres of 1m and 10m were used as required.

2、Keywords

Theme：Canopy spectrum,Terrain spectrometer,Vegetation,Spectral measurement,Terrestrial Surface Remote Sensing,Canopy reflectance  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, Dayekou watershed foci experimental areas, Forest and Hydrology Experimental Areas, Super Site around the Dayekou Guantan Forest Station  
Time：2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：39.8MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.534361 | - |
| west：100.250212 | - | east：100.251297 |
| - | south：38.533171 | - |

5、Time frame:2008-06-19 08:00:00+00:00--2008-06-26 08:00:00+00:00

6、Reference method

References to data:

GUO Xinping, WANG Qiang. WATER: Dataset of spectral reflectance observations of the Picea crassifolia at the super site around the Dayekou Guantan forest station. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0045.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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