A Big Earth Data Platform for Three Poles

**WATER: Dataset of forest canopy gap fraction above the rain gauges observed by the camera at the super site around the Dayekou Guantan forest station**

1、Description

The dataset of forest canopy gap fraction above the rain gauges observed by the camera (PENTAX K100D, 2400×1600) was obtained at the super site (100m×100m, Qinghai spruce) around the Dayekou Guantan forest station from 9:00-10:40 on Jun. 4, 2008. Observation items included the ground-based LiDAR scanning, the total station measuring, DGPS, tally investigation, LAI, canopy spectrum, camera observations of the canopy, soil evapotranspiration, the soil frozen tube observations, surface roughness, precipitation interception, soil moisture and dry-wet weight of the forest component.
 A subplot (25m×25m) was chosen for precipitation interception observations with different canopy density, and 32 sets of photos were taken 1m above the ground. Through studying those photos, the number and location of rain gauges could be determined; and then the canopy density could also be further developed.

2、Keywords

Theme：Soil,Depth of soil freezing,Leaf area index,Vegetation,Canopy interception,Soil moisture/Water content,Spectral measurement
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：272.3MB

4.Data format：

4、Space scope

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

5、Time frame:2008-06-18 08:00:00+00:00--2008-06-18 08:00:00+00:00

6、Reference method

References to data:

Qu Yonghua, ZHOU Hongmin. WATER: Dataset of forest canopy gap fraction above the rain gauges observed by the camera at the super site around the Dayekou Guantan forest station. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0153.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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