A Big Earth Data Platform for Three Poles

**WATER: Dataset of the albedo measurements in the Linze station foci experimental area**

1、Description

The dataset of the albedo measurements was obtained by the shortwave radiometer (KippZonen CMP3, 310nm-2800nm, 1m above the ground) in the Linze station foci experimental area. Sand, psammophyte and withered annual herbs in A9 of the south-north desert strip and LY07, and flax, maize and tomatoes in Linze station were measured on May 28, Jun. 5, 6, 15, 22, 25, 30 and Jul. 4, 2008.  
 Voltage was measured manually by the digital multimeter (UNIT) at intervals of 2 minutes for albedo from May 28 to Jun. 22; self-recording Campbell CR1000 was used at intervals of 1s from Jun. 25 to Jul. 4. TIMESTAMP (observation time), SOLAR\_UP\_AVG (downward shortwave radiation), SOLAR\_DOWN\_AVG (upward shortwave radiation), SOLAR\_NET\_AVG (net radiation)= SOLAR\_UP\_AVG - SOLAR\_DOWN\_AVG, albedo\_Avg (albedo) = SOLAR\_DOWN\_AVG / SOLAR\_UP\_AVG, batt\_volt\_Min (voltage), and ptemp (CR1000 temperature) were all recorded.  
 Manual data were archived as Excel files and the self-recording data in .dat, which were processed into Excel.

2、Keywords

Theme：Radiation,Albedo  
Discipline：Atmosphere  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches, Closed observation area of Linze station  
Time：2008-06-30, 2008-07-04, 2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：5.64MB

4.Data format：文本

4、Space scope

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

5、Time frame:2008-06-09 08:00:00+00:00--2008-07-16 08:00:00+00:00

6、Reference method

References to data:

ZHU Shijie, SONG Yi. WATER: Dataset of the albedo measurements in the Linze station foci experimental area. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0114.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

name: ZHU Shijie  
unit:   
email:   
  
name: SONG Yi  
unit:   
email: songyi05@sohu.com