A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground truth measurement synchronizing with the airborne microwave radiometers (L&K bands) mission in the Linze station foci experimental area on Jul. 4, 2008**

1、Description

The dataset of ground truth measurement synchronizing with the airborne microwave radiometers (L&K bands) mission in the Linze station foci experimental area on Jul. 4, 2008. Observation items included:  
 (1) soil moisture (0-5cm) measured by the cutting ring method (50cm^3) from sample points of the P1 to P6 strips (17 sample points each),. Photos were also taken. The preprocessed soil volumetric moisture data were archived as Excel files.  
 (2) surface radiative temperature measured by the three handheld infrared thermometer (5# and 6# from Cold and Arid Regions Environmental and Engineering Research Institute, and one from Institute of Geographic Sciences and Natural Resources, which were all calibrated) from P1 to P6 strips quadrates. There are 34 sample points in total and each was repeated three times synchronizing with the airplane. Photos were taken. Data were archived as Excel files.   
 See the metadata record “WATER: Dataset of setting of the sampling plots and stripes in the Linze station foci experimental area” for more information of the quadrate locations.

2、Keywords

Theme：Soil,Surface radiation temperature,Earth SurFace Processes,Remote Sensing Technology,Microwave radiometer,Soil moisture/Water content  
Discipline：Terrestrial Surface,Remote Sensing Technology  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches, Closed observation area of Linze station  
Time：2008-07-04, 2008

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：283.9MB

4.Data format：文本

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.353587 | - |
| west：100.144867 | - | east：100.158764 |
| - | south：39.36505 | - |

5、Time frame:2008-07-12 08:00:00+00:00--2008-07-12 08:00:00+00:00

6、Reference method

References to data:

LI Shihua, XU Zhen. WATER: Dataset of ground truth measurement synchronizing with the airborne microwave radiometers (L&K bands) mission in the Linze station foci experimental area on Jul. 4, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0106.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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