A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground truth measurement synchronizing with the airborne imaging spectrometer (OMIS-II) mission in the Linze station foci experimental area on Jun. 6, 2008**

1、Description

The dataset of ground truth measurement synchronizing with the airborne imaging spectrometer (OMIS-II) mission was obtained in the Linze station foci experimental area on Jun. 6, 2008. Observation items included:
 (1) soil moisture (0-5cm) measured by the cutting ring (50cm^3) along LY06, LY07 and LY08 strips (repeated nine times). The preprocessed soil volumetric moisture data were archived as Excel files.
 (2) surface radiative temperature measured by three handheld infrared thermometers (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) in LY06 and LY07 strips. There are 49 sample points in total and each was repeated three times synchronizing with the airplane. 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,Image spectrometer OMIS-II,Remote Sensing Technology,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,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：10.6MB

4.Data format：文本

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.36077 | - |
| west：100.14306 | - | east：100.15543 |
| - | south：39.35789 | - |

5、Time frame:2008-06-16 16:00:00+00:00--2008-06-16 16:00:00+00:00

6、Reference method

References to data:

WANG Yang. WATER: Dataset of ground truth measurement synchronizing with the airborne imaging spectrometer (OMIS-II) mission in the Linze station foci experimental area on Jun. 6, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0101.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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