A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground truth measurement synchronizing with ALOS PALSAR in the Linze grassland foci experimental area on June 10, 2008**

1、Description

The dataset of ground truth measurement synchronizing with ALOS PALSAR was obtained in the Linze grassland foci experimental area on Jun. 10, 2008.  
 The data were in FBS mode and HH/HV polarization combinations, and the overpass time was approximately at 23:39 BJT. Observations were carried out in plots A, B, C, D and E, which were divided into 6×6 subsites, with each one spanning a 120×120 m2 plot. Soil gravimetric moisture, volumetric moisture, and soil bulk density after drying by the cutting ring and the mean soil temperature from 0-5cm by the probe thermometer were measured in A, B and C; the soil temperature, soil moisture, the loss tangent, soil conductivity, the real part and the imaginary part of soil complex permittivity by the POGO soil sensor, and the mean soil temperature from 0-5cm by the probe thermometer in D and E.  
 Data were archived in Excel file. See WATER: Dataset of setting of the sampling plots and stripes in the foci experimental area of Linze station for more information.

2、Keywords

Theme：Electrical conductivity,Soil,Microwave remote sensing,Soil temperature,Surface Freeze-thaw Cycle/state Remote Sensing,Soil moisture/Water content,Terrestrial Surface Remote Sensing,Ground verification information  
Discipline：Terrestrial Surface,Cryosphere  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches,   
Time：2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：2668.4MB

4.Data format：数字影像和数字格网

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.268 | - |
| west：100.037 | - | east：100.095 |
| - | south：39.225 | - |

5、Time frame:2008-06-21 00:00:00+00:00--2008-06-21 00:00:00+00:00

6、Reference method

References to data:

ZHU Shijie, FENG Lei, GE Chunmei. WATER: Dataset of ground truth measurement synchronizing with ALOS PALSAR in the Linze grassland foci experimental area on June 10, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0065.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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