A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground-based microwave scatterometer and ground truth observations in the Linze grassland foci experimental area**

1、Description

The dataset of ground-based microwave scatterometer (C-5 and LS-C-5; S-3; LS-S-3) and ground truth observations was obtained in the Linze grassland foci experimental area. Besides, TDR-200 was also used. Observation items included:
 (1) soil moisture of the grassland on Jul. 9, 2008. HH, HV, VV and VH polarization combinations were applied.
 (2) soil moisture of the maize field on Jul. 10, 2008. VV, HH, VH and HV polarization combinations were applied.
 (3) humidity of the grassland at around 11:30am on Jul. 11, 2008. VH, HH, VV and HV polarization combinations were applied.

2、Keywords

Theme：Soil,Remote Sensing Technology,Soil moisture/Water content,Ground-based microwave radiometer
Discipline：Terrestrial Surface,Remote Sensing Technology
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches,
Time：2008-07-08, 2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：26.2MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.078 | - |
| west：100.411 | - | east：100.55 |
| - | south：38.015 | - |

5、Time frame:2008-07-21 01:46:00+00:00--2008-07-24 14:00:00+00:00

6、Reference method

References to data:

WATER: Dataset of ground-based microwave scatterometer and ground truth observations in the Linze grassland foci experimental area. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0264.db2013

References to articles:

徐春亮, 陈彦, 贾明权, 刘增灿, 卢海平, 童玲. 典型地物后向散射特性的测量与分析. 地球科学进展, 2009, 24(7): 810-816.

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