A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground truth measurement synchronizing with the airborne LiDAR mission and Envisat ASAR in the Yingke oasis and Huazhaizi desert steppe foci experimental areas (Jun. 19, 2008)**

1、Description

The dataset of ground truth measurement synchronizing with the airborne LiDAR mission and Envisat ASAR was obtained in the Yingke oasis and Huazhaizi desert steppe foci experimental areas on Jun. 19, 2008.
 The Envisat ASAR data were in AP mode and VV/VH polarization combinations, and the overpass time was approximately at 11:17 (Beijing Time). The observation item was soil moisture by TDR ( the probe with a length of 5cm) in the maize plot of Yingke oasis station, the wheat plot and some temporary sample points (details in GPS.txt).

2、Keywords

Theme：Soil,Airborne laser radar,Remote Sensing Technology,Visible remote sensing,Soil moisture/Water content
Discipline：Terrestrial Surface,Remote Sensing Technology
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches,
Time：2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：563.7MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.88 | - |
| west：100.289 | - | east：100.46 |
| - | south：38.734 | - |

5、Time frame:2008-06-30 16:00:00+00:00--2008-06-30 16:00:00+00:00

6、Reference method

References to data:

XIA Chuanfu, SHU Lele, ZHOU Mengwei. WATER: Dataset of ground truth measurement synchronizing with the airborne LiDAR mission and Envisat ASAR in the Yingke oasis and Huazhaizi desert steppe foci experimental areas (Jun. 19, 2008). A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0128.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: SHU Lele
unit:
email:

name: XIA Chuanfu
unit:
email:

name: ZHOU Mengwei
unit:
email: mengweizhou@hotmail.com