A Big Earth Data Platform for Three Poles

**HiWATER：TerraSAR-X dataset**

1、Description

This dataset includes eight scenes, covering the artificial oasis eco-hydrology experimental area of the Heihe River Basin, which were acquired on (yy-mm-dd hh:mm) 2012-05-24, 2012-06-04, 2012-06-26, 2012-07-07, 2012-07-29, 2012-08-09, 2012-08-14, 2012-08-25.  
The data were all acquired around 19:00 (BJT) at StripMap mode with product level of MGD. Within them, the former six images are of HH/VV polarization with low incidence angle (22-24°), while the later two images acquired on 2012-08-14 and 2012-08-25 are of VV/VH polarization with higher incidence angle (39-40°).   
TerraSAR-X dataset was acquired from German Space Agency (DLR) through the general proposal of “Estimation of eco-hydrological variables using TerraSAR-X data in the Heihe River Basin, China” (project ID: HYD2096).

2、Keywords

Theme：Radar remote sensing,Satelite images,Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches  
Time：2012-07-07, 2012-08-25, 2012-08-14, 2012-06-04, 2012, 2012-06-26, 2012-07-29, 2012-05-24, 2012-08-09

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：16486.4MB

4.Data format：数字影像

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.0 | - |
| west：100.2 | - | east：100.7 |
| - | south：38.7 | - |

5、Time frame:2012-06-05 07:00:00+00:00--2012-09-06 07:00:00+00:00

6、Reference method

References to data:

German Space Agency (DLR). HiWATER：TerraSAR-X dataset. A Big Earth Data Platform for Three Poles, 2013

References to articles:

7、Supporting project information

"Heihe Watershed Allied Telemetry Experimental Research (HiWATER)

8、Data resource provider

name: German Space Agency (DLR)  
unit: German Space Agency (DLR)  
email: 无