A Big Earth Data Platform for Three Poles

**HiWATER: Airborne CCD image data production in the middle reaches of the Heihe River Basin（August 3,2012）**

1、Description

On 3 August 2012, Wide-angle Infrared Dual-mode line/area Array Scanner (WIDAS) carried by the Harbin Y-12 aircraft was used in a visible near Infrared thermal Dual-mode airborne remote sensing experiment, which is located in the artificial oasis eco-hydrology experimental area (5×5 km). WIDAS includes a CCD camera with a spatial resolution of 0.08 m, a visible near Infrared multispectral camera with five bands scanner (an maximum observation angle 48° and spatial resolution 0.4 m), and a thermal image camera with a spatial resolution of 2 m.  
The CCD camera data are recorded in DN values processed by mosaic and orthorectification.

2、Keywords

Theme：Remote Sensing Technology,Wide-angle infrared dual-mode line/Area array scanner,CCD  
Discipline：Remote Sensing Technology  
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches  
Time：2012, 2012-08-03

3、Data details

1.Scale：None

2.Projection：WGS84 UTM

3.Filesize：88371.2MB

4.Data format：tif

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.0 | - |
| west：100.3 | - | east：100.46 |
| - | south：38.7 | - |

5、Time frame:2018-11-29 02:47:39+00:00--2018-11-29 02:47:39+00:00

6、Reference method

References to data:

Wen Jianguang. HiWATER: Airborne CCD image data production in the middle reaches of the Heihe River Basin（August 3,2012）. A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.162.2014.db2018

References to articles:

Li, X., Liu, S.M., Xiao, Q., Ma, M.G., Jin, R., Che, T., Wang, W.Z., Hu, X.L., Xu, Z.W., Wen, J.G., Wang, L.X. (2017). A multiscale dataset for understanding complex eco-hydrological processes in a heterogeneous oasis system. Scientific Data, 4, 170083. doi:10.1038/sdata.2017.83.

7、Supporting project information

Heihe Watershed Allied Telemetry Experimental Research (HiWATER)

8、Data resource provider

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