A Big Earth Data Platform for Three Poles

**HiWATER: Visible and near-infrared hyperspectral radiometer (7th, July, 2012)**

1、Description

On 7 July 2012 (UTC+8), a CASI/SASI sensor boarded on the Y-12 aircraft was used to obtain the visible/near Infrared hyperspectral image, which is located in the observation experimental area. The relative flight altitude is 2000 meters, The wavelength of CASI and SASI is 380-1050 nm and 950-2450 nm, respectively. The spatial resolution of CASI and SASI is 1 m and 2.4 m, respectively.   
Through the ground sample points and atmospheric data, the data product are recorded in reflectance processed by geometric correction and atmospheric correction based on 6S model.

2、Keywords

Theme：CASI,Remote Sensing Technology,SASI  
Discipline：Remote Sensing Technology  
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches  
Time：2012-07-07, 2012

3、Data details

1.Scale：None

2.Projection：WGS84 UTM

3.Filesize：93286.4MB

4.Data format：影像

4、Space scope

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

5、Time frame:2018-11-23 02:50:57+00:00--2018-11-23 02:50:57+00:00

6、Reference method

References to data:

Wen Jianguang. HiWATER: Visible and near-infrared hyperspectral radiometer (7th, July, 2012). A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.011.2013.db2017

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

name: Wen Jianguang  
unit:   
email: wenjg@irsa.ac.cn