A Big Earth Data Platform for Three Poles

**HiWATER: Thermal-Infrared hyperspectral radiometer (30th, June, 2012)**

1、Description

On 30 June 2012 (UTC+8), TASI sensor carried by the Harbin Y-12 aircraft was used in a visible near Infrared hyperspectral airborne remote sensing experiment, which is located in the observation experimental area (30×30 km), Linze region and Heihe riverway. The relative flight altitude is 2500 meters. The wavelength of TASI is 8-11.5 μm with a spatial resolution of 3 meters.   
Through the ground sample points and atmospheric data, the data are recorded in surface radiance processed by geometric correction and atmospheric correction. Land surface temperature (LST) data was retrieved by temperature/emissivity separation algorithm.

2、Keywords

Theme：TASI,Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches  
Time：2012, 2012-06-30

3、Data details

1.Scale：None

2.Projection：WGS84 UTM

3.Filesize：36761.6MB

4.Data format：影像

4、Space scope

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

5、Time frame:2018-11-21 10:50:45+00:00--2018-11-21 10:50:45+00:00

6、Reference method

References to data:

Wen Jianguang. HiWATER: Thermal-Infrared hyperspectral radiometer (30th, June, 2012). A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.005.2013.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

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