A Big Earth Data Platform for Three Poles

**HiWATER: Vegetation Height product in the middle of the Heihe River Basin on July. 19, 2012**

1、Description

In July 19, 2012 (UTC+8), the airborne LIDAR data is acquired in the foci area in the Heihe,middle reaches, which can provide high spatial resolution (m) and high precision (20 cm) of the surface elevation information. Based on airborne LIDAR data processing, the land surface DEM, DSM and point cloud density map were generated. By subtracting DSM and DEM directly, a Vegetation height product in the middle reaches of the Heihe River Basin was obtained. The product overall accuracy is 88%.

2、Keywords

Theme：Ecological remote sensing products,Terrestrial Surface Remote Sensing  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, the artificial oasis experimental area in the middle reaches  
Time：2012-07-19, 2012

3、Data details

1.Scale：None

2.Projection：WGS84 UTM

3.Filesize：12.0MB

4.Data format：las

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.0 | - |
| west：100.3 | - | east：100.5 |
| - | south：38.7 | - |

5、Time frame:2018-11-23 02:48:52+00:00--2018-11-23 02:48:52+00:00

6、Reference method

References to data:

Wen Jianguang. HiWATER: Vegetation Height product in the middle of the Heihe River Basin on July. 19, 2012. A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.172.2014.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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