A Big Earth Data Platform for Three Poles

**HiWATER: Airborne LiDAR raw data in Qilian on Aug. 28, 2012**

1、Description

On 28 August 2012, Leica ALS70 airborne laser scanner carried by the Harbin Y-12 aircraft was used in a LiDAR airborne optical remote sensing experiment. Leica ALS70 airborne laser scanner has unlimited numbers of returns intensities measurements including the first, second ,third return intensities. The wavelength of laser light is 1064 nm. The absolute flight altitude is 4800 m with the point cloud density 1.6 point per square meter. Airborne LiDAR-DEM and DSM data production were obtained through parameter calibration, automatic classification of point cloud density and manual editing.

2、Keywords

Theme：Airborne laser radar,Remote Sensing Technology  
Discipline：Remote Sensing Technology  
Places：Heihe River Basin, Qilian, the cold region hydrology experimental area in the upper reaches  
Time：2012, 2012-08-28

3、Data details

1.Scale：None

2.Projection：WGS84 UTM

3.Filesize：1720.32MB

4.Data format：las

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.16 | - |
| west：100.27 | - | east：100.32 |
| - | south：38.08 | - |

5、Time frame:2018-11-22 02:48:57+00:00--2018-11-22 02:48:57+00:00

6、Reference method

References to data:

Wen Jianguang. HiWATER: Airborne LiDAR raw data in Qilian on Aug. 28, 2012. A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.161.2014.db2014

References to articles:

Che, T., Li, X., Liu, S., Li, H., Xu, Z., Tan, J., Zhang, Y., Ren, Z., Xiao, L., Deng, J., Jin, R., Ma, M., Wang, J., & Yang, X. (2019). Integrated hydrometeorological, snow and frozen-ground observations in the alpine region of the Heihe River Basin, China. Earth System Science Data, 11, 1483-1499

7、Supporting project information

Heihe Watershed Allied Telemetry Experimental Research (HiWATER)

8、Data resource provider

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