A Big Earth Data Platform for Three Poles

**HiWATER: Airborne LiDAR-DEM data production in Tianlaochi catchment**

1、Description

On 25 July 2012, a Leica ALS70 airborne laser scanner boarded on the Y-12 aircraft was used to obtain the point cloud data. 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 points per square meter. Aerial LiDAR-DEM was obtained through parameter calibration, automatic classification of point cloud density and manual editing.

2、Keywords

Theme：Digital elevation model(DEM),Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface
Places：Heihe River Basin, the cold region hydrology experimental area in the upper reaches, Tianlaochi Catchment
Time：2012, 2012-07-25

3、Data details

1.Scale：None

2.Projection：WGS84 UTM

3.Filesize：1044.48MB

4.Data format：las

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.44 | - |
| west：99.9 | - | east：99.95 |
| - | south：38.4 | - |

5、Time frame:2018-11-22 18:49:32+00:00--2018-11-22 18:49:32+00:00

6、Reference method

References to data:

Wen Jianguang. HiWATER: Airborne LiDAR-DEM data production in Tianlaochi catchment. A Big Earth Data Platform for Three Poles, doi:10.3972/hiwater.009.2013.db2014

References to articles:

7、Supporting project information

Heihe Watershed Allied Telemetry Experimental Research (HiWATER)

8、Data resource provider

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