A Big Earth Data Platform for Three Poles

**WATER: Dataset of airborne LiDAR mission in the Zhangye-Yingke flight zone on Jun. 20 2008**

1、Description

The dataset of airborne LiDAR mission in the Zhangye-Yingke flight zone on Jun. 20, 2008 included peak pulse data, full waveform data, CCD photos, DEM, DSM and DOM. The flight routes were as follows:  
{|  
! flight route  
! startpoint lat  
! startpoint lon  
! endpoint lat  
! endpoint lon  
! altitude (m)  
! length (km)  
! photos  
|-  
| 2 || 38°57′53.06″ || 100°27′22.19″ || 38°50′31.77″ || 100°22′48.36″ || 2150 || 15.1 || 40  
|-  
| 3 || 38°57′49.52″ || 100°27′31.54″ || 38°50′28.23″ || 100°22′57.69″ || 2150 || 15.1 || 40  
|-  
| 4 || 38°57′45.98″ || 100°27′40.88″ || 38°50′24.70″ || 100°23′07.00″ || 2150 || 15.1 || 80  
|-  
| 5 || 38°57′42.44″ || 100°27′50.22″ || 38°50′21.16″ || 100°23′16.35″ || 2150 || 15.1 || 80  
|-  
| 6 || 38°57′38.90″ || 100°27′59.57″ || 38°50′17.63″ || 100°23′25.68″ || 2150 || 15.1 || 79  
|-  
| 7 || 38°57′35.36″ || 100°28′08.91″ || 38°50′14.09″ || 100°23′35.01″ || 2150 || 15.1 || 81  
|-  
| 8 || 38°57′31.81″ || 100°28′18.25″ || 38°50′10.55″ || 100°23′44.34″ || 2150 || 15.1 || 80  
|-  
| 9 || 38°57′28.27″ || 100°28′27.59″ || 38°50′07.01″ || 100°23′53.67″ || 2150 || 15.1 || 81  
|-  
| 10 || 38°57′24.73″ || 100°28′36.94″ || 38°50′03.48″ || 100°24′03.00″ || 2150 || 15.1 || 80  
|-  
| 11 || 38°57′21.19″ || 100°28′46.28″ || 38°49′59.95″ || 100°24′12.33″ || 2150 || 15.1 || 82  
|-  
| 12 || 38°57′17.64″ || 100°28′55.62″ || 38°49′56.41″ || 100°24′21.66″ || 2150 || 15.1 || 80  
|-  
| 13 || 38°57′14.10″ || 100°29′04.96″ || 38°49′52.87″ || 100°24′30.99″ || 2150 || 15.1 || 81  
|-  
| 14 || 38°57′10.56″ || 100°29′14.30″ || 38°49′49.34″ || 100°24′40.32″ || 2150 || 15.1 || 79  
|-  
| 15 || 38°57′07.01″ || 100°29′23.64″ || 38°49′45.80″ || 100°24′49.65″ || 2150 || 15.1 || 80  
|}

2、Keywords

Theme：Airborne laser radar,Remote Sensing Technology,Airborne remote sensing,CCD  
Discipline：Remote Sensing Technology  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches, Zhangye City Foci Experimental Area,   
Time：

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：16193.5MB

4.Data format：

4、Space scope

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

5、Time frame:2008-06-29 10:00:00+00:00--2008-06-29 16:00:00+00:00

6、Reference method

References to data:

HE Qisheng, MA Mingguo. WATER: Dataset of airborne LiDAR mission in the Zhangye-Yingke flight zone on Jun. 20 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0223.db2012

References to articles:

周梦维, 柳钦火, 刘强, 肖青. 全波形激光雷达和航空影像联合的地物分类. 遥感技术与应用, 2010, 25(6): 821-827.

7、Supporting project information

The CAS (Chinese Academy of Sciences) Action Plan for West Development Project  
National Program on Key Basic Research Project (973 Program

8、Data resource provider

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