A Big Earth Data Platform for Three Poles

**WATER: Dataset of airborne WiDAS mission in the Zhangye-Yingke-Huazhaizi flight zone on Jul. 7, 2008**

1、Description

The dataset of airborne WiDAS mission was obtained in the Zhangye-Yingke-Huazhaizi flight zone on Jul. 7, 2008.
 Intra-band data available for general users include Level-2C data (after geometric, radiometric and atmospheric corrections), Level-1B browse image (after intra-band matching) and Level-2B browse image (after registration). The raw data, Level-1A, and data processing parameters were filed; applications would be evaluated prior to access. Data processing started in Aug. 2008 and ended in Apr. 2009, and in Nov. 2009, CCD data were reprocessed to adjust radiometric calibration.
 The flying time of each route was as follows:

{|
! id
! flight
! relative height
! starttime
! endtime
! data size
! data state
! data quality
! ground targets
|-
| 1 || 3#15 || 1500m || 11:00:55 || 11:09:55 ||133 || processed; complete || good
|-
| 2 || 3#13 || 1500m || 11:14:40 || 11:23:45 || 136 || processed; complete || good
|-
| 3 || 3#11 || 1500m || 11:27:35 || 11:36:45 || 137 || processed; complete || good || the resort, Yingke weather station maize field and Yingke wheat field
|-
| 4 || 3#9 || 1500m || 11:40:55 || 11:50:20 || 137 || incomplete || incomplete || the wetland park, Zhangye city,Yingke weather station maize field, Yingke wheat field and Huazhaizi desert maize field
|-
| 5 || 3#9a || 1500m || 11:53:25 || 12:02:40 || 142 || processed; complete || good || the wetland park, Zhangye city,Yingke weather station maize field, Yingke wheat field and Huazhaizi desert maize field
|-
| 6 || 3#7 || 1500m || 12:07:10 || 12:16:35 || 119 || processed; complete || good
|-
| 7 || 3#5 || 1500m || 12:19:05 || 12:28:15 || 137 || processed; complete || good || Huazhaizi desert plot 1
|-
| 8 || 3#3 || 1500m || 12:32:35 || 12:41:50 || 115 || processed; complete || good || Huazhaizi desert plot 2
|-
| 9 || 3#1 || 1500m || 12:45:25 || 12:54:40 || 139 || processed; complete || good
|-
| 10 || 3#z1 || 1500m || 13:03:55 || 13:08:00 || 61 || processed; complete || good
|-
| 11 || 3#z2 || 1500m || 13:10:50 || 13:14:45 || 59 || processed; complete
|}

2、Keywords

Theme：Thermal imager,Remote Sensing Technology,Wide-angle infrared dual-mode line/Area array scanner,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：46834.5MB

4.Data format：数字影像

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.0 | - |
| west：100.2 | - | east：100.5 |
| - | south：38.5 | - |

5、Time frame:2009-01-14 18:43:00+00:00--2009-01-14 23:33:00+00:00

6、Reference method

References to data:

WATER: Dataset of airborne WiDAS mission in the Zhangye-Yingke-Huazhaizi flight zone on Jul. 7, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0202.db2011

References to articles:

方莉, 刘强, 肖青, 柳钦火, 刘志刚. 黑河试验中机载红外广角双模式成像仪的设计及实现. 地球科学进展, 2009, 24(7): 696-704.

刘强, 肖青, 刘志刚, 方莉, 彭菁菁, 李波. 黑河综合遥感联合试验中机载WIDAS数据的预处理方法. 遥感技术与应用, 2010, 25(6): 797-804.

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