A Big Earth Data Platform for Three Poles

**WATER: Dataset of airborne WiDAS mission in the Linze station-Linze grassland flight zone on Jun. 29, 2008**

1、Description

The dataset of airborne WiDAS mission was obtained in the Linze station-Linze grassland flight zone on Jun. 29, 2008.
 Data available for general users include Level-2C data (after geometric, radiometric and atmospheric corrections), Level-1B browse image (after intra-band matchingintra-band) and Level-2B browse image (intra-bandafter 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 || 1#13 || 1500m || 11:44:35 || 11:50:31 || 90 || processed;complete || good || Pingchuan reservoir
|-
| 2 || 1#11 || 1500m || 11:55:55 || 12:01:55 || 91 || processed;complete || good || Linze grass station
|-
| 3 || 1#9\_1 || 1500m || 12:06:27 || 12:12:27 || 91 || incomplete || incomplete || Pingchuan reservoir
|-
| 4 || 1#9\_2 || 1500m || 13:01:35 || 13:07:43 || 93 || processed;complete || good || Pingchuan reservoir
|-
| 5 || 1#7 || 1500m || 12:17:59 || 12:23:59 || 91 || processed;complete || good || desert transit plot
|-
| 6 || 1#5 || 1500m || 12:28:35 || 12:34:31 || 　90 || processed;complete || good || North-south desert strip
|-
| 7 || 1#3 || 1500m || 12:39:11 || 12:45:03 || 　89 || processed;complete || good || Pingchuan reservoir
|-
| 8 || 1#1 || 1500m || 12:50:55 || 12:56:51 || 90 || processed;complete || good || Linze station
|}

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, Closed observation area of Linze station,
Time：

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：22858.4MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.35 | - |
| west：100.0 | - | east：100.3 |
| - | south：39.05 | - |

5、Time frame:2009-01-08 10:40:00+00:00--2009-01-08 15:21:00+00:00

6、Reference method

References to data:

WANG Heshun, MA Mingguo. WATER: Dataset of airborne WiDAS mission in the Linze station-Linze grassland flight zone on Jun. 29, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0199.db2012

References to articles:

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.

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.

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

name: WANG Heshun
unit:
email: heshun8336@163.com

name: MA Mingguo
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
email: mmg@lzb.ac.cn