A Big Earth Data Platform for Three Poles

**WATER: Dataset of airborne WiDAS mission in the national observatory on climatology at Zhangye-Zhangye flight zone on Jun. 29, 2008**

1、Description

The dataset of airborne WiDAS mission was obtained in the national observatory on climatology at Zhangye-Zhangye flight zone on Jun. 29, 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 || 2#5 || 1500m || 13:14:39 || 13:22:43 || 122 || processed;complete || good || National observatory on climatology at Zhangye;Gulou in Zhangye   
|-  
| 2 || 2#7 || 1500m || 13:28:23 || 13:35:31 || 108 || processed;complete || good  
|-　   
| 3 || 2#9 || 1500m || 13:41:11 || 13:49:03 || 119 || processed;complete || good || wetland park in Zhangye  
|}

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：15083.5MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.2 | - |
| west：100.15 | - | east：100.55 |
| - | south：38.8 | - |

5、Time frame:2009-01-05 18:40:00+00:00--2009-01-05 23:21:00+00:00

6、Reference method

References to data:

FANG Li. WATER: Dataset of airborne WiDAS mission in the national observatory on climatology at Zhangye-Zhangye flight zone on Jun. 29, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0213.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

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