A Big Earth Data Platform for Three Poles

**WATER: Dataset of mobile meteorological station observations**

1、Description

The dataset of mobile meteorological station observations was obtained in the foci experiment area from March to April, 2008. To synergize the very high resolution airborne remote sensing and ground-based measurements, 11 mobile observations, including meteorological stations (for meteorological data) and GPS (for observation sites), were carried out in Binggou, A'rou and Biandukou. The items included the wind speed and direction at 3.03m (the truck height 1.84m plus the vane height 1.19m), the air temperature and humidity at 3.04m (the truck height 1.84m plus the vane height 1.2m), the surface temperature (the truck height 1.84m plus 1.06m) and the total radiation (the truck height 1.84m plus 1.39m).  
 The observation sites and time were as follows:  
 Dadongshu mountain pass-A'rou 15-3-2008  
 Biandukou-Qilian 18-3-2008  
 A'rou-Biandukou 19-3-2008  
 Qilian-Minle 20-3-2008  
 Mingle-Zhangye 21-3-2008  
 Binggou-Dadongshu mountain pass 22-3-2008  
 Binggou-Dadongshu mountain pass 24-3-2008  
 Binggou-Dadongshu mountain pass 29-3-2008  
 Binggou-Dadongshu mountain pass 30-3-2008  
 Qilian-A'rou 31-3-2008  
 A'rou 01-4-2008  
 The data were named after WATER\_Mobile\_ AWS\_yyyymmdd (yyyymmdd for observation time).

2、Keywords

Theme：Radiation,Temperature,Surface air temperature,Winds,Wind direction,Air temperature,wind speed  
Discipline：Atmosphere  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches, the cold region hydrology experimental area in the upper reaches, A'rou flight zone, closed observation area of Biandoukou, ice-channel watershed encryption observation area,   
Time：2008-04-01, 2008-03-29,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：79.2MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.93 | - |
| west：100.13 | - | east：101.07 |
| - | south：38.1 | - |

5、Time frame:2008-03-28 06:07:00+00:00--2008-04-14 06:07:00+00:00

6、Reference method

References to data:

MA Xiaowei, HOU Xuhong. WATER: Dataset of mobile meteorological station observations. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0158.db2015

References to articles:

Xu, T., Liu, S., Xu, L., Chen, Y., Jia, Z., Xu, Z., Nielson, J. (2015). Temporal Upscaling and Reconstruction of Thermal Remotely Sensed Instantaneous Evapotranspiration. Remote Sensing. 7(3), 3400-3425. doi:10.3390/rs70303400.

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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