A Big Earth Data Platform for Three Poles

**WATER: Dataset of the drop spectrometer observations in the arid region hydrology experiment area**

1、Description

The dataset of the drop spectrometer (PARSIVEL) observations was obtained at an interval of 30 seconds in the arid region hydrology experiment area from May 18 to Jul. 5, 2008. The site was chosen in Xiaoman township (38.86°N, 100.41°E, 1515m), Ganzhou district, Zhangye city, Gansu province. The data mainly included the raindrop grain size and the terminal velocity. Besides, dual polarized radar (X-band) parameters such as ZDR and KDR could be further developed based on those data.  
 The sampling area of PARSIVEL was 5400mm^2; the liquid grain diameter was from 0.2-5mm, and the solid grain diameter was from 0.2-25mm.

2、Keywords

Theme：Precipitation,Drop spectrometer,Rain,Remote Sensing Technology  
Discipline：Atmosphere,Remote Sensing Technology  
Places：Heihe River Basin, Arid Region Hydrology in the Middle Reaches,   
Time：2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：17.94MB

4.Data format：

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.85 | - |
| west：100.41 | - | east：100.41 |
| - | south：38.85 | - |

5、Time frame:2008-05-30 14:49:00+00:00--2008-07-17 14:49:00+00:00

6、Reference method

References to data:

JIA Wei. WATER: Dataset of the drop spectrometer observations in the arid region hydrology experiment area. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0267.db2013

References to articles:

Zhao G, Chu R, Zhang T, Li J, Shen J, Wu Z. Improving the rainfall rate estimation in the midstream of the Heihe River Basin using rain drop size distribution. Hydrology and Earth System Sciences, 2011, 15(3): 943-951. doi:10.5194/hess-15-943-2011.

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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