A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground-based microwave scatterometer and snow parameter observations in the Binggou watershed experimental area on Mar. 16, 2008**

1、Description

The dataset of ground-based microwave scatterometer and snow parameter observations was obtained in the Binggou watershed experimental area on Mar. 16, 2008.  
 Observation items included:  
 (1) Snow backscattering coefficient by the scatterometer  
 (2) Snow parameters as the snow surface temperature by the probe thermometer, snow grain size by the handheld microscope, snow density by the snow shovel, the snow surface temperature and the snow-soil interface temperature by the handheld infrared thermometer in BG-I.  
 (3) The snow spectrum by the portable ASD (Xinjiang Meteorological Administration) at the Dadongshu mountain pass; the major and minor axis and shape of the snow layer grain through the snow sieve.  
 (4) Snow albedo by the total radiometer from 10:29 to 15:00   
 (5) Snow density, snow complex permittivity, snow volumetric moisture and snow gravimetric moisture by the Snowfork at the Dadongshu mountain pass  
 Two subfolders including raw data and preprocessed data were archived.

2、Keywords

Theme：Albedo,Snow/ice temperature,Snow depth,Terrain spectrometer,Snow,Snow particle size,Snow density,Snow water equivalent,Terrestrial Surface Remote Sensing,Ground verification information  
Discipline：Terrestrial Surface,Cryosphere  
Places：Heihe River Basin, the cold region hydrology experimental area in the upper reaches, Dadongshu pass, ice-channel watershed encryption observation area  
Time：2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：85.4MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.18839 | - |
| west：100.096381 | - | east：100.286566 |
| - | south：38.01113 | - |

5、Time frame:2008-03-28 08:00:00+00:00--2008-03-28 08:00:00+00:00

6、Reference method

References to data:

QIN Wei, MA Zhongguo, MA Mingguo, CHANG Cun. WATER: Dataset of ground-based microwave scatterometer and snow parameter observations in the Binggou watershed experimental area on Mar. 16, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0085.db2013

References to articles:

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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