A Big Earth Data Platform for Three Poles

**WATER: Dataset of snow properties measured by the Snowfork in the Binggou watershed foci experimental area during the pre-observation period on Dec, 2007**

1、Description

The dataset of snow properties measured by the Snowfork was obtained in the Binggou watershed foci experimental area from Dec. 5-16 2007, during the pre-observation period. The aims of the measurements were to verify applicability of the instruments and to acquire snow parameters for simultaneous airborne, satellite-borne and ground-based remote sensing experiments and other control experiments.  
 Observation items included:  
 (1) physical quantities by direct observations: resonant frequency, the rate of attenuation and 3db bandwidth  
 (2) physical quantities by indirect observations: snow density, snow complex permittivity (the real part and the imaginary part), snow volumetric moisture and snow gravimetric moisture.  
 Five files including raw data and processed data are kept, data by the Snowfork on Dec 5, data by BG-A MODIS on Dec 6 and 7, data in BG-B, BG-C, BG-D and BG-E on Dec 10, and data in BG-D with the microwave radiometer on Dec 14 and 16.

2、Keywords

Theme：Snow,Snow density,Remote Sensing Technology,Snow analyzer,Snow water equivalent  
Discipline：Remote Sensing Technology,Cryosphere  
Places：Heihe River Basin, the cold region hydrology experimental area in the upper reaches, ice-channel watershed encryption observation area  
Time：2007,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.14MB

4.Data format：

4、Space scope

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

5、Time frame:2007-12-15 08:00:00+00:00--2007-12-26 08:00:00+00:00

6、Reference method

References to data:

LIANG Ji. WATER: Dataset of snow properties measured by the Snowfork in the Binggou watershed foci experimental area during the pre-observation period on Dec, 2007. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0280.db2013

References to articles:

郝晓华, 王建, 车涛, 张璞, 梁继, 李弘毅, 李哲, 白云洁, 白艳芬. 祁连山区冰沟流域积雪分布特征及其属性观测分析. 冰川冻土, 2009, 31(2): 284-292.

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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