A Big Earth Data Platform for Three Poles

**WATER: Dataset of snow properties measured by the Snowfork in the Binggou watershed foci experimental area on Mar, 2008**

1、Description

The dataset of snow properties measured by the Snowfork was obtained in the Binggou watershed foci experimental area from Mar. 10 to 30, 2008, in cooperation with 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. 13 files are archived, and the user guide of the sampling plot and observation background is included too.

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：2008,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：26.4MB

4.Data format：

4、Space scope

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

5、Time frame:2008-03-24 16:46:00+00:00--2008-04-13 16:46:00+00:00

6、Reference method

References to data:

LI Zhe, LIANG Ji. WATER: Dataset of snow properties measured by the Snowfork in the Binggou watershed foci experimental area on Mar, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0211.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.

Li HY, Wang J. Simulation of snow distribution and melt under cloudy conditions in an alpine watershed. Hydrology and Earth System Sciences, 2011, 15(7): 2195-2203. doi:10.5194/hess-15-2195-2011.

Hao XH, Wang J, Li Z, Zhang P. Alpine snow properties analysis based on in-situ measurements in Binggou watershed of Qilian Mountain. Journal of Sichuan University (Engineering Science Edition), 2009, 42(Supp 2): 122-128.

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

name: LIANG Ji
unit:
email: leung@lzb.ac.cn

name: LI Zhe
unit:
email: