A Big Earth Data Platform for Three Poles

**WATER: Dataset of intensive snow parameter measurements in the Binggou watershed foci experimental area on Mar. 11, 2008**

1、Description

The dataset of intensive snow parameter measurements was obtained in the Binggou watershed foci experimental area on Mar. 11, 2008. Those provide reliable data for retrieval of snow parameters from remote sensing approaches.
 Observation items included the snow layer temperature by the probe thermometer, the snow grain size by the handheld microscope, snow density by the aluminum case, the snow surface temperature by the handheld infrared thermometer, and the snow-soil interface temperature by the handheld infrared thermometer in three plots in BG-Z. 4 points were selected and measured 4 times in each plot. Two files including raw data and preprocessed data (3 subfolders enclosed) on snow properties were archived; besides, profile pictures of each point were also included.

2、Keywords

Theme：Snow/ice temperature,Snow depth,Snow,Snow particle size,Snow density
Discipline：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：108.3MB

4.Data format：EXCEL

4、Space scope

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

5、Time frame:2008-03-24 00:00:00+00:00--2008-03-24 00:00:00+00:00

6、Reference method

References to data:

DOU Yan, LI Hua, FANG Li, BAI Yunjie, WU Yueru, XU Zhen, MA Zhongguo, GE Chunmei, YAN Yeqing, LI Zhe, BAI Yanfen, LIANG Ji, SHU Lele, ZHANG Pu, LIU Yan, MA Hongwei, WANG Xufeng, MA Mingguo, YUAN Xiaolong, WANG Jianhua, LI Hongyi, GU Juan, CHANG Cun, HAO Xiaohua. WATER: Dataset of intensive snow parameter measurements in the Binggou watershed foci experimental area on Mar. 11, 2008. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0042.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.

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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