A Big Earth Data Platform for Three Poles

**WATER: Dataset of snow density measurements in the Binggou watershed foci experimental area on Dec. 6 and Dec. 10, 2007 during the pre-observation period**

1、Description

The dataset of snow density measurements was obtained in the Binggou watershed foci experimental area on Dec. 6 and Dec. 10, 2007 during the pre-observation period, to survey the snow layer and acquire the snow density for retrieval and modeling from remote sensing approaches.   
 Observation items included:  
 (1) Snow layer density: measured by snow shovel weighing method. Each 10cm was a unit.   
 (2) Snow density, snow depth, snow temperature, snow-soil interface temperature, and snow grain size in BG-A.   
 Measured were carried out in BG-A on Dec. 6, 2007, and in BG-B, BG-C and BG-D on Dec. 10, 2007. The dataset includes raw data and processed data plus GPS and calibration data for the snow shovel.

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：2007,

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.04MB

4.Data format：

4、Space scope

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

5、Time frame:2007-12-16 00:00:00+00:00--2007-12-20 00:00:00+00:00

6、Reference method

References to data:

WANG Xufeng. WATER: Dataset of snow density measurements in the Binggou watershed foci experimental area on Dec. 6 and Dec. 10, 2007 during the pre-observation period. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0281.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

name: WANG Xufeng  
unit: Cold and Arid Regions Environmental and Engineering Research Institute, CAS  
email: wangxufeng@lzb.ac.cn