A Big Earth Data Platform for Three Poles

**WATER: Dataset of ground truth measurements synchronizing with Terra MISR and MODIS in the Binggou watershed foci experimental area on Dec. 10 and Dec. 11, 2007 during the pre-observation period**

1、Description

The dataset of ground truth measurements synchronizing with Terra MISR and MODIS was obtained in sampling plot BG-A of the Binggou watershed foci experimental area on Dec. 10 and Dec. 11, 2007 during the pre-observation period.
 Observation items included:
 (1) Snow parameters including the snow surface temperature, the snow-soil interface temperature, the land surface temperature by the handheld infrared thermometer, the snow layer temperature by the probe thermometer, snow depth by the ruler and the snow grain size by the handheld microscope.
 (2) Snow density in "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"
 (3) Snow properties in "WATER: Dataset of snow properties measured by the Snowfork in the Binggou watershed foci experimental area during the pre-observation period"
 Raw data and pre-processed data including snow parameters synchronizing with Terra MISR and MODIS and the temperature synchronizing with MODIS were archived herein.

2、Keywords

Theme：Near infrared remote sensing,Microwave remote sensing,Snow/ice temperature,Snow depth,Snow,Snow particle size,Surface Freeze-thaw Cycle/state Remote Sensing,Remote Sensing Technology,Visible remote sensing
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：0.11MB

4.Data format：EXCEL

4、Space scope

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

5、Time frame:2007-12-23 00:00:00+00:00--2007-12-24 00:00:00+00:00

6、Reference method

References to data:

LI Hongyi, Wang Weizhen, LUO Lihui, CHE Tao, HAO Xiaohua, LIANG Ji, WANG Yang, BAI Yunjie, ZHANG Pu, WU Yueru, LIU Yan, WANG Xufeng. WATER: Dataset of ground truth measurements synchronizing with Terra MISR and MODIS in the Binggou watershed foci experimental area on Dec. 10 and Dec. 11, 2007 during the pre-observation period. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0265.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

name: HAO Xiaohua
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
email: haoxh@lzb.ac.cn

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

name: Wang Weizhen
unit:
email: weizhen@lzb.ac.cn

name: LUO Lihui
unit:
email: luolh@lzb.ac.cn

name: WANG Yang
unit:
email:

name: ZHANG Pu
unit:
email:

name: WU Yueru
unit:
email:

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

name: LI Hongyi
unit:
email: lihongyi@lzb.ac.cn

name: BAI Yunjie
unit:
email: baiyj27@163.com

name: LIU Yan
unit:
email:

name: CHE Tao
unit:
email: chetao@lzb.ac.cn