A Big Earth Data Platform for Three Poles

**WATER: Dataset of snow spectral reflectance observations in the Binggou watershed foci experimental area from Dec. 5 to Dec. 15, 2007 during the pre-observation period**

1、Description

The dataset of snow spectral reflectance observations was obtained in the Binggou watershed foci experimental area from Dec. 5 to Dec. 15, 2007 during the pre-observation period. The aims of the measurements were to verify feasibility of the predetermined observation schemes and to collect data for retrieval from remote sensing approaches. All data were acquired by ASD spectrometer from Xinjiang Meteorological Administration.
 Observation items included:
 (1) Random observations on snow spectrum in the chosen snowpack at the Binggou cold region hydrometeorological station on Dec. 5, 6 and 7, 2007
 (2) Snow spectrum observations in BG-A simultaneous with MODIS and Terra MISR on Dec. 10, 2007
 (3) The pure and the mixed snow pixel spectrum in BG-A on Dec. 15, 2007
 (4) Multi-angle snow spectrum in the chosen snowpack in BG-A on Dec. 15, 2007
 Seven subfolders including raw data and pre-processed data are named after the acquisition time, Dec. 5, 2007, Dec. 6, 2007, Dec. 7, 2007, Dec. 10, 2007, Dec. 13, 2007, Dec. 15, 2007 and Dec. 15, 2007, respectively.

2、Keywords

Theme：Spectral characteristics of Snow,Albedo,Terrain spectrometer,Snow,Terrestrial Surface Remote Sensing
Discipline：Terrestrial Surface,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：295.1MB

4.Data format：

4、Space scope

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

5、Time frame:2007-12-21 00:00:00+00:00--2007-12-31 00:00:00+00:00

6、Reference method

References to data:

ZHANG Pu, LIU Yan. WATER: Dataset of snow spectral reflectance observations in the Binggou watershed foci experimental area from Dec. 5 to Dec. 15, 2007 during the pre-observation period. A Big Earth Data Platform for Three Poles, doi:10.3972/water973.0286.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

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