A Big Earth Data Platform for Three Poles

**Snow water equivalent dataset for the High Asia Region (2002-2011)**

1、Description

Snow water equivalent (the product of snow depth and density) is an important factor reflecting the change in snow cover on the ground surface, and it is also an important parameter in surface hydrological models and climatic models. As the “Headwaters of Asia”, the Tibetan Plateau is the source of several major rivers, which are fed with glacier and snow meltwater. Based on the sensitivity of passive microwave radiation to snow, these monitoring data enable long-term inversion of snow water equivalents in the High Asia region. The data set includes daily snow water equivalent, monthly snow water equivalent and five-day snow water equivalent, and these data can be applied in analyses of local hydrology, animal husbandry production and other fields.

2、Keywords

Theme：Snow,Snow water equivalent  
Discipline：Cryosphere  
Places：High Asia  
Time：2002-2011

3、Data details

1.Scale：None

2.Projection：

3.Filesize：3399.0MB

4.Data format：bin

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：45.0 | - |
| west：67.0 | - | east：107.0 |
| - | south：25.0 | - |

5、Time frame:2002-06-27 00:00:00+00:00--2011-10-11 00:00:00+00:00

6、Reference method

References to data:

Snow water equivalent dataset for the High Asia Region (2002-2011). A Big Earth Data Platform for Three Poles, doi:10.11922/sciencedb.6602018

References to articles:

邱玉宝, 卢洁羽, 石利娟, 等. (2019). 高亚洲地区被动微波遥感雪水当量数据集[J/]. 中国科学数据, 4(1). (2019-03-29).

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider