A Big Earth Data Platform for Three Poles

**Long-term series of daily snow depth dataset in China (1979-2023)**

1、Description

2、Keywords

Theme：Microwave remote sensing,Snow depth,Snow,Cryosphere remote sensing products,Surface Freeze-thaw Cycle/state Remote Sensing  
Discipline：Cryosphere  
Places：China  
Time：1979-2019, 2012-2023

3、Data details

1.Scale：None

2.Projection：lon-lat

3.Filesize：5493.0MB

4.Data format：文本数据

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：55.0 | - |
| west：60.0 | - | east：140.0 |
| - | south：15.0 | - |

5、Time frame:1978-12-31 16:00:00+00:00--2023-12-31 03:59:59+00:00

6、Reference method

References to data:

LI Xin, CHE Tao. Long-term series of daily snow depth dataset in China (1979-2023). A Big Earth Data Platform for Three Poles, doi:10.11888/Geogra.tpdc.2701942015

References to articles:

Dai, L.Y., Che, T., &Ding, Y.J. (2015). Inter-calibrating SMMR, SSM/I and SSMI/S data to improve the consistency of snow-depth products in China. Remote Sensing, 7(6), 7212-7230.  
  
Che, T., Li, X., Jin, R., Armstrong, R., &Zhang, T.J. (2008). Snow depth derived from passive microwave remote-sensing data in China. Annals of Glaciology, 49, 145-154.  
  
Dai, L.Y., Che, T., Ding, Y.J., &Hao, X.H. (2017). Evaluation of snow cover and snow depth on the Qinghai–Tibetan Plateau derived from passive microwave remote sensing. The Cryosphere, 11(4), 1933-1948.

7、Supporting project information

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

8、Data resource provider

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