A Big Earth Data Platform for Three Poles

**Boundary and Topographic data of the Southeastern Tibetan Plateau (2000)**

1、Description

This dataset includes boundary and topographic data of Southeastern Tibetan Plateau (SETP):  
1. SETP\_ Boundary: we centered on the traditional SETP region (i.e., the Parlung Tsangpo River basin or Bomi County) and used the surrounding river network (e.g., the Yarlung Zangbo-Brahmaputra River, Nujiang-Salween River, and their tributaries) to delineate the boundary of the SETP. This region covers the Eastern Nyainqentanglha Ranges, Eastern Himalayas, and Western Hengduan Mountains and hosts the largest maritime glacier concentration across China.  
2. Topographic data: Based on NASADEM provided by NASA Earthdata, we mosaicked the DEM, slope, aspect, profile curvature (profc) and water Mask (SWB) of SETP.  
3. Hillshade: We produced the hillshde with a altitude angle of 45° from the NASADEM of SETP.

2、Keywords

Theme：Division,Engineering Geology,Topography,Ecological geography division  
Discipline：Human-nature Relationship,Solid earth  
Places：Southeastern Tibetan Plateau  
Time：2000

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：1995.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.57 | - |
| west：91.76 | - | east：98.88 |
| - | south：27.81 | - |

5、Time frame:None--None

6、Reference method

References to data:

LI Xingdong, ZHAO Fanyu, HAN Pengfei, LONG Di, HUANG Qi. Boundary and Topographic data of the Southeastern Tibetan Plateau (2000). A Big Earth Data Platform for Three Poles, doi:10.1016/j.rse.2021.1128532022

References to articles:

Zhao, F., Long, D., Li, X., Huang, Q., & Han, P. (2022). Rapid glacier mass loss in the Southeastern Tibetan Plateau since the year 2000 from satellite observations. Remote Sensing of Environment, 270

7、Supporting project information

the National Natural Science Foundation of China (Grant Nos. 92047301 and 91547210)  
the Second Tibetan Plateau Scientific Expedition and Research (STEP) program

8、Data resource provider

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