A Big Earth Data Platform for Three Poles

**Geological records and photograph dataset of Quaternary sediments during the Tibetan Scientific Expedition in Yarlung Tsangpo River Basin (2019-2020)**

1、Description

The Quaternary sediments in the Yarlung Tsangpo River Basin (YTRB) are widely distributed and rich in types. A detailed field geological survey was carried out on the Quaternary sediments in the whole YTRB, including 16 sub-basins. The survey covers Langkazi, Jiangzi, Kangma, Sakya, Razi, Zhongba, Saga, Angren, Xietongmen, Nanmulin, Jiacha, Bomi, Motuo County, Mozhugongka and its surrounding areas. The dataset records the work log, fieldwork photos, and geological profile photos of field geological investigation on different Quaternary sediments in the YTRB. 16 profiles and 40 remote sensing interpretation markers of loose sediments were investigated. It is of great significance to find out the temporal and spatial distribution and change mechanism of Quaternary sediments in YTRB for revealing the evolution of water system, monitoring and protection of plateau ecological environment, soil and water conservation, early warning and prevention of natural disasters, and construction of major infrastructure projects.

2、Keywords

Theme：Quaternary sediments,Land Use/Land Cover,Rocks/Minerals,sediments  
Discipline：Terrestrial Surface,Solid earth  
Places：Upper Brahmaputra  
Time：Quaternary

3、Data details

1.Scale：None

2.Projection：

3.Filesize：887.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.28 | - |
| west：82.01 | - | east：97.1 |
| - | south：27.81 | - |

5、Time frame:None--None

6、Reference method

References to data:

ZHANG Jian, LIN Zhipeng, MA Xinduo, BAI Yalige, HU Taiyu, HAN Zhongpeng, WANG Chengshan, WANG Xinhang. Geological records and photograph dataset of Quaternary sediments during the Tibetan Scientific Expedition in Yarlung Tsangpo River Basin (2019-2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Geogra.tpdc.2714532021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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