A Big Earth Data Platform for Three Poles

**A dataset of lake-catchment characteristics for the Tibetan Plateau (v1.0) (1979-2018)**

1、Description

Lakes collect runoff, sediment and nutrients from upstream watersheds and are an important "destination" of material migration at the watershed scale. Therefore, the attributes of lake water and sediment are affected by catchment attributes (e.g. climate, terrain and vegetation conditions) to a large degree. This dataset delineates the watershed boundaries of 1525 Lakes (with an area from 0.2 to 4503 square kilometers) on the Tibetan Plateau, and calculates 721 catchment-scale attributes on the aspects of lake body, terrain, climate, vegetation, soil/geology and anthropogenic activities. This is the first dataset of lake-catchment characteristics on the Tibetan Plateau, which can provide foundamental data for the study of lakes in the Tibetan Plateau.

2、Keywords

Theme：Surface Water,Drainage Basin and River System
Discipline：Terrestrial Surface,Cryosphere
Places：Qinghai-Tibet Plateau
Time：day, 1979-2018

3、Data details

1.Scale：None

2.Projection：Albers

3.Filesize：5610.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.0 | - |
| west：73.0 | - | east：104.0 |
| - | south：26.0 | - |

5、Time frame:1978-12-31 16:00:00+00:00--2018-12-30 16:00:00+00:00

6、Reference method

References to data:

LIU Junzhi . A dataset of lake-catchment characteristics for the Tibetan Plateau (v1.0) (1979-2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2720262022

References to articles:

Liu, J.Z., Fang, P.C., Que, Y.F., Zhu, L.J., Duan, Z., Tang, G.A., Liu, P.F., Ji, M.K., & Liu, Y.Q. (2022). A dataset of lake-catchment characteristics for the Tibetan Plateau. Earth Syst. Sci. Data, 14, 3791–3805.

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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