A Big Earth Data Platform for Three Poles

**Lake-level over the Tibetan Plateau using multi-sensor satellite altimetry data (2010-2020)**

1、Description

The data include four types: water levels of 244 lakes extracted in CryoSat-2 L1B Baseline D (2010-2020); water levels of 356 lakes extracted in ICESat-2 ATL13 (2018-2020); water levels of 125 lakes extracted in Sentinel-3A SRAL L2 (2016- 2020); water levels in 120 lakes extracted from Sentinel-3B SRAL L2 (2018-2020). Data include date, decimal date, water level, standard deviation, and geographic location of each lake. Please see the paper for detailed data processing procedures.

2、Keywords

Theme：Water level,Hydrology
Discipline：Terrestrial Surface
Places：The Tibetan Plateau
Time：2010-2020/2016-2020/2018-2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：22.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.173 | - |
| west：71.287 | - | east：102.833 |
| - | south：28.092 | - |

5、Time frame:None--None

6、Reference method

References to data:

ZHANG Guoqing, XU Fenglin. Lake-level over the Tibetan Plateau using multi-sensor satellite altimetry data (2010-2020). A Big Earth Data Platform for Three Poles, doi:10.1016/j.jhydrol.2021.1272512021

References to articles:

Xu, F., Zhang, G., Yi, S., & Chen, W. (2021). Seasonal trends and cycles of lake-level variations over the Tibetan Plateau using multi-sensor altimetry data. J. Hydrol, 127251. https://doi.org/10.1016/j.jhydrol.2021.127251

7、Supporting project information

8、Data resource provider

name: XU Fenglin
unit:
email: xufenglin@itpcas.ac.cn

name: ZHANG Guoqing
unit:
email: guoqing.zhang@itpcas.ac.cn