A Big Earth Data Platform for Three Poles

**Global large reservoirs evaporation dataset (1985-2016)**

1、Description

This dataset contains the monthly evaporation rate and volumes for 7242 reservoirs from March 1984 to December 2016 across the world. The evaporation rate was calculated using the three datasets viz. (1) TerraClimate; (2) ERA5; (3) Princeton Global Forcings. The surface area of these reservoirs is obtained from the Global reservoir surface area dataset (GRSAD). The detailed descriptions for this dataset are presented in Tian et al (2021,2022). The basic information of the global reservoirs was provided by the Global Reservoir and Dam Database (GRanD).

2、Keywords

Theme：Evapotranspiration,Surface Water,Reservoir,Hydrology
Discipline：Terrestrial Surface
Places：Global
Time：1985-2016

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：66.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：180.0 | - | east：180.0 |
| - | south：90.0 | - |

5、Time frame:1984-12-31 16:00:00+00:00--2016-12-30 16:00:00+00:00

6、Reference method

References to data:

WANG Kaiwen , TIAN Wei , LIU Xiaomang, BAI Peng , LIU Changming . Global large reservoirs evaporation dataset (1985-2016). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2727272022

References to articles:

Tian, W., Liu, X., Wang, K., Bai, P., Liu, C., & Liang, X. (2022). Estimation of Global Reservoir Evaporation Losses. Journal of Hydrology, 127524.

Tian, W., Liu, X., Wang, K., Bai, P., & Liu, C. (2021). Estimation of reservoir evaporation losses for China. Journal of Hydrology, 596, 126142.

7、Supporting project information

8、Data resource provider

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