A Big Earth Data Platform for Three Poles

1、Description

2、Keywords

Theme：Maximum/Minimum temperature,Landsat,Precipitation,Radiation,Temperature,Rain gauge,Grassland,Land surface product,Carbon dioxide flux,Land cover,Terrestrial Surface Remote Sensing,Grassland
Discipline：Atmosphere,Terrestrial Surface
Places：Nam Co, Alpine shrubline
Time：2005-2020, half-hourly

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：173.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：30.8 | - |
| west：90.89 | - | east：91.03 |
| - | south：30.68 | - |

5、Time frame:None--None

6、Reference method

References to data:

Felix Nieberding, MA Weiqiang, WANG Yuyang, Torsten Sachs, LEHNERT Lukas, MAURISCHAT Philipp, MA Yaoming, Cristian Wille. Half-hourly Eddy Covariance fluxes, gap-filled meteorological variables, precipitation and remotely sensed plant cover estimations from NAMORS between 2005 and 2020. A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2712742021

References to articles:

Nieberding, F., Wille, C., Fratini, G., Asmussen, M. O., Wang, Y., Ma, Y., and Sachs, T. (2020). A Long Term (2005–2019) Eddy Covariance Data Set of CO2 and H2O Fluxes from the Tibetan Alpine Steppe, Earth Syst. Sci. Data, doi:10.5194/essd-2020-63.

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Nieberding, F., Wille, C., Ma, Y., Wang, Y., Maurischat, P., Lehnert,
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increase plant cover and net CO2 uptake in a central Tibetan alpine
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Ma, Y.M., Ma, W.Q., Zhong, L., Hu, Z., Li, M., Zhu, Z., et al. (2017). Monitoring and Modeling the Tibetan Plateau’s climate system and its impact on East Asia, Scientific Reports, 7, 44574, doi:10.1038/srep44574.

Lehnert, L. W., Meyer, H., Wang, Y., Miehe, G., Thies, B., Reudenbach, C., and Bendix, J. (2015). Retrieval of grassland plant coverage on the Tibetan Plateau based on a multi-scale, multi-sensor and multi-method approach, Remote Sensing of Environment, 164, 197–207, doi:10.1016/j.rse.2015.04.020.

7、Supporting project information

The Second Tibetan Plateau Scientific Expedition and Research (STEP) program
The Strategic Priority Research Program of Chinese Academy of Sciences
National Natural Science Foundation of China

8、Data resource provider

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