时空三极环境大数据平台

**Half-hourly Eddy Covariance fluxes, gap-filled meteorological variables, precipitation and remotely sensed plant cover estimations from NAMORS between 2005 and 2020**

英文标题：Half-hourly Eddy Covariance fluxes, gap-filled meteorological variables, precipitation and remotely sensed plant cover estimations from NAMORS between 2005 and 2020

1、摘要

This file contains the datasets used in a manuscript published in JGR Biogeosciences (Nieberding, F., Wille, C., Ma, Y., Wang, Y., Maurischat, P., Lehnert, L., and Sachs, T.: Winter daytime warming and shift in summer monsoon increase plant cover and net CO2 uptake in a central Tibetan alpine steppe ecosystem, Journal of Geophysical Research: Biogeosciences, 126, e2021JG006441, doi:10.1029/2021JG006441, 2021.). The manuscript contains all the details on how the data was generated and processed and the corresponding code was published in the supplementary material.

2、关键词

主题关键词：最高/最低温度,地球资源卫星,降水,辐射,温度,雨量计,草地,地表产品,二氧化碳通量,土地覆被,陆地表层遥感,草地  
学科关键词：大气,陆地表层  
地点关键词：Nam Co, Tibetan Plateau  
时间关键词：2005-2020, half-hourly

3、数据细节

1.比例尺：None

2.投影：WGS84

3.文件大小：173.0MB

4.数据格式：None

4、空间范围

|  |  |  |
| --- | --- | --- |
| - | 北：30.8 | - |
| 西：90.89 | - | 东：91.03 |
| - | 南：30.68 | - |

5、时间范围None--None

6、引用方式

数据的引用:

Felix Nieberding, 马耀明, Christian Wille, Lukas Lehnert, Yuyang Wang, Philipp Maurischat, Weiqiang Ma, Torsten Sachs. Half-hourly Eddy Covariance fluxes, gap-filled meteorological variables, precipitation and remotely sensed plant cover estimations from NAMORS between 2005 and 2020. 时空三极环境大数据平台, DOI:10.11888/Meteoro.tpdc.271274, CSTR:18406.11.Meteoro.tpdc.271274, 2021.[Felix Nieberding, MA Weiqiang, WANG Yuyang, Torsten Sachs, LEHNERT Lukas, MAURISCHAT Philipp, MA Yaoming, Cristian Wille. . A Big Earth Data Platform for Three Poles, DOI:10.11888/Meteoro.tpdc.271274, CSTR:18406.11.Meteoro.tpdc.271274, 2021]

文章的引用:

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.  
  
Ma, Y.M., Kang, S.C., Zhu, L.P., Xu, B.Q., Tian, L.D., & Yao, T.D. (2008). Tibetan Observation and Research Platform- Atmosphere–land interaction over a heterogeneous landscape, Bulletin of the American Meteorological Society. 89, 1487–1492. doi:10.1175/2008BAMS2545.1.  
  
Nieberding, F., Wille, C., Ma, Y., Wang, Y., Maurischat, P., Lehnert,   
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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、资助项目信息

第二次青藏高原综合科学考察研究  
中国科学院Ａ类战略性先导科技专项  
国家自然科学基金

8、数据资源提供者

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