A Big Earth Data Platform for Three Poles

**Meteorological observation data of Everest integrated atmospheric and environmental observation research station (2017-2018)**

1、Description

This data set includes the daily average values of air temperature, air pressure, relative humidity, wind speed, precipitation, total radiation, p2.5 concentration, short wave radiation, etc. observed by the comprehensive observation and research station of atmosphere and environment of Everest from 2017 to 2018.

2、Keywords

Theme：Precipitation,Temperature,Humidity/Dryness
Discipline：Atmosphere
Places：Qomolangma
Time：2017-2018

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：92.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：28.36 | - |
| west：86.95 | - | east：86.95 |
| - | south：28.36 | - |

5、Time frame:2017-07-11 16:00:00+00:00--2019-07-10 16:00:00+00:00

6、Reference method

References to data:

MA Yaoming. Meteorological observation data of Everest integrated atmospheric and environmental observation research station (2017-2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2703152020

References to articles:

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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.

Ma, Y.M., Zhong, L., Wang, B.B., Ma, W.Q., Chen, X.L., & Li, M. (2011). Determination of land surface heat fluxes over heterogeneous landscape of the Tibetan Plateau by using the MODIS and in-situ data. Atmospheric Chemistry and Physics, 11, 10461–10469. doi:10.5194/acp-11-10461-2011.

Ma, Y., Wang, Y., Wu, R., Hu, Z., Yang, K., & Li, M., et al. (2009). Recent advances on the study of atmosphere-land interaction observations on the tibetan plateau. Hydrology and Earth System Sciences, 13(7), 1103-1111.

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.

7、Supporting project information

CASEarth:Big Earth Data for Three Poles（grant No. XDA19070000）

8、Data resource provider

name: MA Yaoming
unit: Institute of Tibetan Plateau Research, Chinese Academy of Sciences
email: ymma@itpcas.ac.cn