A Big Earth Data Platform for Three Poles

**The meteorological data of Mt. Qomolangma, Namco, and Linzhi Stations on the Tibetan Plateau (2006-2008)**

1、Description

The data set collects the long-term monitoring data on atmosphere, hydrology and soil from the Integrated Observation and Research Station of Multisphere in Namco, the Integrated Observation and Research Station of Atmosphere and Environment in Mt. Qomolangma, and the Integrated Observation and Research Station of the Alpine Environment in Southeast Tibet. The data have three resolutions, which include 0.1 seconds, 10 minutes, 30 minutes, and 24 hours.
The temperature, humidity and pressure sensors used in the field atmospheric boundary layer tower (PBL) were provided by Vaisala of Finland. The wind speed and direction sensor was provided by MetOne of the United States. The radiation sensor was provided by APPLEY of the United States and EKO of Japan. Gas analysis instrument was provided by Licor of the United States, and the soil moisture content, ultrasonic anemometer and data collector were provided by CAMPBELL of the United States. The observing system is maintained by professionals on a regular basis (2-3 times a year), the sensors are calibrated and replaced, and the collected data are downloaded and reorganized to meet the meteorological observation specifications of the National Weather Service and the World Meteorological Organization (WMO).
The data set was processed by forming a time continuous sequence after the raw data were quality-controlled, and the quality control included eliminating the systematic error caused by missing data and sensor failure.

2、Keywords

Theme：Soil,Radiation,Winds,Hydrology,Soil moisture/Water content,Pressure
Discipline：Atmosphere,Terrestrial Surface
Places：Tibetan Plateau , Namco, Linzhi, Qomolangma
Time：2006-2008

3、Data details

1.Scale：None

2.Projection：

3.Filesize：10700.0MB

4.Data format：\*.DAT

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：73.0 | - | east：104.0 |
| - | south：28.0 | - |

5、Time frame:2006-01-14 16:00:00+00:00--2009-01-13 16:00:00+00:00

6、Reference method

References to data:

MA Yaoming. The meteorological data of Mt. Qomolangma, Namco, and Linzhi Stations on the Tibetan Plateau (2006-2008). A Big Earth Data Platform for Three Poles, doi:10.11888/AtmosphericPhysics.tpe.55.file2018

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7、Supporting project information

The Response of Environmental Changes on Tibetan Plateau to Global Changes and Adaptation Strategy

8、Data resource provider

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