A Big Earth Data Platform for Three Poles

**Investigation the water vapor channel of Yarlung Zangbo Grand Canyon (2018-2019)**

1、Description

In 2018, the Second Tibetan Plateau Scientific Expedition and Research Programme tasked a research team to conduct an "Investigation of the water vapor channel of the Yarlung Zangbo Grand Canyon" in the southeastern Tibetan Plateau. This team subsequently established a three-dimensional comprehensive observation system of land-air interaction, water vapor transport, cloud cover, and rainfall activity along different altitude from south to north along the YGC canyon. Motuo meteorological station is an integrated observation base of a variety of large observation equipment. The whole comprehensive observation network includes 2 cloud radars, 2 micro rain radars, seven sets of eddy covariance flux sites for measuring land-air interaction, 3 sets of microwave radiometers , 6 sets of GPS water vapor observatories, 2 sets of automatic weather stations and 19 sets of rainfall buckets.

2、Keywords

Theme：Clouds,microphysical characteristics of precipitation,Earth SurFace Processes,Meteorological Disaster,Ka/Ku band radar,Precipitation,Radar Weather,Hydrology,Water vapor profiles,Eddy covariance system,Sensible heat flux,Atmospheric Water Vapor
Discipline：Atmosphere,Terrestrial Surface
Places：Southeast Tibet, Yarlung Zangbo Grand Canyon
Time：2018, 2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：10000.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.0 | - |
| west：94.0 | - | east：96.0 |
| - | south：29.0 | - |

5、Time frame:2018-11-30 16:00:00+00:00--2019-02-28 16:00:00+00:00

6、Reference method

References to data:

WANG Gaili, XU Xiangde, WANG Xin, LUO Siqiong, CHEN Xuelong, MA Yaoming. Investigation the water vapor channel of Yarlung Zangbo Grand Canyon (2018-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Atmos.tpdc.2719062021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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