A Big Earth Data Platform for Three Poles

**Water vapor observation data of key sections in the tropical Indian Ocean (2020-2021)**

1、Description

1. The data content includes: year, month, day, hour, longitude, latitude, altitude, meridional (UQ) and latitudinal (VQ) components of water vapor flux;
2. Data source and processing method: GPS meteorological sounding data of voyages in the eastern Indian Ocean, and calculate water vapor flux through relative humidity, wind field, air pressure and altitude;
3. Data quality description: vertical continuous observation with 1 second vertical resolution;
4. Data application achievements and prospects: Study on the changes of water vapor transport in the tropical Indian Ocean;

2、Keywords

Theme：Water vapor,Atmospheric Water Vapor
Discipline：Atmosphere
Places：East Indian Ocean
Time：2020-2021

3、Data details

1.Scale：None

2.Projection：

3.Filesize：105.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：15.0 | - |
| west：79.0 | - | east：110.0 |
| - | south：-15.0 | - |

5、Time frame:2020-09-25 16:00:00+00:00--2021-06-04 16:00:00+00:00

6、Reference method

References to data:

WANG Dongxiao. Water vapor observation data of key sections in the tropical Indian Ocean (2020-2021). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2717812021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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