A Big Earth Data Platform for Three Poles

**Atmospheric water tower index for Tibetan Plateau (1979-2017)**

1、Description

To describing the quantity of atmospheric water resource gaining over the TP, we provide two indexs based on ERA5 monthly reanalysis. One is called column water income (CWI), defined as the sum of vertical integrated divergence of water vapor flux and surface evaporation. It is 0.25 ×0.25 gridded with unit of kg/m2 or millimeter. Another one is Atmospheric water tower index (AWTI), total of net income of atmospheric water resource for the entire TP area, i.e., and unit is Gt.

2、Keywords

Theme：Water vapor tendency,Water vapor,Evaporation,Atmospheric Water Vapor
Discipline：Atmosphere
Places：Tibetan Plateau
Time：1979-2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：27.4MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：70.0 | - | east：105.0 |
| - | south：25.0 | - |

5、Time frame:1979-01-06 08:00:00+00:00--2018-01-05 08:00:00+00:00

6、Reference method

References to data:

YAN Hongru. Atmospheric water tower index for Tibetan Plateau (1979-2017). A Big Earth Data Platform for Three Poles, 2019

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

name: YAN Hongru
unit: Lanzhou University
email: yanhr@lzu.edu.cn