A Big Earth Data Platform for Three Poles

**Sensitivity eperiments of sensible heat over the Tibetan Plateau by CESM1.2.0 (1979-2014)**

1、Description

As a huge elevated surface and atmospheric heat source in spring and summer, the Qinghai Tibet Plateau (TP) has an important impact on regional and global climate and climate. In order to explore the thermal forcing effect of TP, the sensitivity test data set of sensible heat anomaly on the Qinghai Tibet Plateau was prepared.  
This data includes three groups of sensitivity tests: (1) in the fully coupled model cesm1.2.0, the plateau sensible heat is stronger CGCM from March to may in spring\_ lar\_ mon\_ 3-12-2.nc and plateau thermal sensitivity are weak (CGCM)\_ sma\_ mon\_ 3-12-2. Sensitivity test of NC; (2) In the single general circulation model cam4.0, the sensible heat of the plateau is stronger in spring (March may)\_ lar\_ Mon 3-8.nc and low sensible heat cam\_ sma\_ Mon3-8.nc sensitivity test.  
Including: 3D wind, potential height, air temperature, surface temperature, specific humidity, sensible heat flux, latent heat flux, precipitation and other conventional variables  
Space scope: global simulation results

2、Keywords

Theme：Precipitation,Temperature,sensible heat flux,Winds,latent heat flux  
Discipline：Atmosphere  
Places：global  
Time：1979-2014

3、Data details

1.Scale：None

2.Projection：

3.Filesize：4842.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：-180.0 | - | east：180.0 |
| - | south：-90.0 | - |

5、Time frame:1978-12-31 16:00:00+00:00--2014-12-31 03:59:59+00:00

6、Reference method

References to data:

DUAN Anmin. Sensitivity eperiments of sensible heat over the Tibetan Plateau by CESM1.2.0 (1979-2014). A Big Earth Data Platform for Three Poles, doi:10.11888/Atmos.tpdc.2728012022

References to articles:

7、Supporting project information

8、Data resource provider

name: DUAN Anmin  
unit: Institute of Atmospheric Physics, Chinese Academy of Sciences  
email: amduan@lasg.iap.ac.cn