A Big Earth Data Platform for Three Poles

**Oxygen content in the atmosphere of the Tibetan Plateau (1980-2019)**

1、Description

Based on the meteorological data of 105 meteorological stations in and around the Qinghai Tibet Plateau from 1980 to 2019 (data from China Meteorological Administration and National Meteorological Science Data Center), the oxygen content was calculated. It was found that there was a significant linear correlation between oxygen content and altitude, y = -0.0263x + 283.8, R2 = 0.9819. Therefore, the oxygen content distribution map can be calculated based on DEM data grid. Due to the limitation of the natural environment in the Qinghai Tibet Plateau, there are few related fixed-point observation institutions. This data can reflect the distribution of oxygen content in the Qinghai Tibet Plateau to a certain extent, and has certain reference significance for the research of human living environment in the Qinghai Tibet Plateau.

2、Keywords

Theme：Oxygen content,Greenhouse Gases  
Discipline：Atmosphere  
Places：Qinghai-Tibet Plateau  
Time：1980-2019

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：32.55MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.3 | - |
| west：73.2 | - | east：104.7 |
| - | south：23.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

Oxygen content in the atmosphere of the Tibetan Plateau (1980-2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2711562021

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider