A Big Earth Data Platform for Three Poles

**Distribution data of available wind energy resources with 1km resolution in Qinghai Tibet Plateau (1979-2008)**

1、Description

The distribution data of available wind energy resources with 1km resolution in the Qinghai Tibet Plateau is based on the multi-year average wind speed in the Qinghai Tibet Plateau obtained by numerical simulation, and considering the constraints and restrictions of terrain, water body, urban and other land use on wind energy development, the comprehensive wind energy resource levels are very rich, rich, relatively rich and general. Set the land availability according to the terrain slope and land use type, deduct the 3km range around the town, divide the land availability into 5 intervals from 0 to 1 according to the interval of 0.2, and then divide the annual average wind speed into 4 intervals. The classification of wind energy resources is obtained through the combination of land availability and wind speed. The data are mainly used for detailed survey of wind energy resources and macro site selection of wind farms.

2、Keywords

Theme：Winds,Wind Resource
Discipline：Atmosphere
Places：Tibetan Plateau
Time：1979-2008

3、Data details

1.Scale：None

2.Projection：

3.Filesize：1.82MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：73.5 | - | east：104.5 |
| - | south：26.0 | - |

5、Time frame:1978-12-31 16:00:00+00:00--2008-12-30 16:00:00+00:00

6、Reference method

References to data:

SUN Chaoyang, ZHU Rong. Distribution data of available wind energy resources with 1km resolution in Qinghai Tibet Plateau (1979-2008). A Big Earth Data Platform for Three Poles, doi:10.11888/Atmos.tpdc.2724452022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: ZHU Rong
unit:
email: rongzhu@cma.gov.cn

name: SUN Chaoyang
unit:
email: sunchaoy@cma.gov.cn