Upper Yangtze River Scientific Data Center

**the 1km PM2.5 dataset in Southwest China (2000-2021)**

1、Description

The 1km PM2.5 data set (2000-2021) in Southwest China is one of the long-term, full coverage, high-resolution and high-quality ground air pollutant data sets of China (CHAP). It is generated by using big data of artificial intelligence (such as ground-based measurement, satellite remote sensing products, atmospheric reanalysis, model simulation, etc.) and considering the spatio-temporal heterogeneity of air pollution. This data is the ground PM2.5 data set of 1 km/day (D1K) in Southwest China from 2000 to 2021. The daily cross validation determination coefficient (CV-R2) of this dataset is 0.92, and the root mean square error (RMSE) is 10.76 µ g m - 3

2、Keywords

Theme：ChinaHighPM2.5,Other,Artificial intelligence,Big data  
Discipline：Atmosphere  
Places：Southwest China  
Time：2000-2021

3、Data details

1.Scale：None

2.Projection：

3.Filesize：21299.2MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：34.5 | - |
| west：97.0 | - | east：112.5 |
| - | south：20.5 | - |

5、Time frame:1999-12-31 16:00:00+00:00--2021-12-30 16:00:00+00:00

6、Reference method

References to data:

JING Wei . the 1km PM2.5 dataset in Southwest China (2000-2021). Upper Yangtze River Scientific Data Center, doi:https://doi.org/10.5281/zenodo.37536142022

References to articles:

7、Supporting project information

8、Data resource provider

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