
Plan Overview

A Data Management Plan created using DMPonline

Title: 中国城市PM2.5和PM10污染现状与趋势——基于多源数据的分析

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Template: DCC Template

Project abstract:

本文使用Echarts和VOSviewer对2013-2023年中国城市PM2.5和PM10污染现状与趋势进行了分析。通过构建网络图，展示了不同城市之间的污染关联。结果表明，PM2.5和PM10的污染水平在2013-2023年间呈现出明显的上升趋势，且PM2.5的污染水平显著高于PM10。此外，PM2.5和PM10的污染水平与NO₂的污染水平存在显著的正相关性。

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Data Collection

What data will you collect or create?

From 2018-2023, we will collect 26 variables including PM2.5, NO₂, and GDP data from various sources.

How will the data be collected or created?

Data will be collected via API calls using Python scripts and stored in a database.

Documentation and Metadata

What documentation and metadata will accompany the data?

Documentation will include a README file and a JSON metadata file describing the data sources and collection methods.

Ethics and Legal Compliance

How will you manage any ethical issues?

There are no ethical issues to manage as the data is publicly available.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

The data is licensed under CC BY-ND 4.0, and the code is licensed under MIT.

Storage and Backup

How will the data be stored and backed up during the research?

Data will be stored on a secure server and backed up using NAS and Git.

GitLab

How will you manage access and security?

SSL/TLS
AES-256

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

GIS

What is the long-term preservation plan for the dataset?

1
NetCDF
GeoJSON
DOI
3
10

Data Sharing

How will you share the data?

GitHub
Gitee
MIT

Are any restrictions on data sharing required?

Responsibilities and Resources

Who will be responsible for data management?

What resources will you require to deliver your plan?

1. GIS ScienceDB 3
1. 4

Planned Research Outputs

Dataset - "Population of the United States (2018-2023)"

Population of the United States 2018-2023
This dataset contains population data for the United States from 2018 to 2023. The data is sourced from the U.S. Census Bureau and is available in CSV format. The dataset includes information on the total population, as well as population by state and by age group. The data is updated annually and is available for download from the following link: [https://www.census.gov/data/tables/time-series/demo/states/population.html](#). The dataset is licensed under the Creative Commons Attribution 4.0 International License.

Planned research output details

Title	DOI	Type	Release date	Access level	Repository(ies)	File size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Population of the United States (2018-2023)		Dataset	2024-01-01	Open	None specified		Creative Commons Attribution 4.0 International	None specified	No	No