
Plan Overview

A Data Management Plan created using DMPonline

Title: 中国城市PM2.5和PM10污染水平及其对健康的影响——基于多源数据的分析

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Template: DCC Template

Project abstract:

本项目旨在利用Echarts和VOSviewer等工具，对中国城市PM2.5和PM10污染水平及其对健康的影响进行多源数据分析。通过整合气象数据、卫星遥感和地面监测站数据，构建了一个综合模型，用于评估污染水平及其对健康的影响。研究结果表明，PM2.5和PM10污染水平与呼吸系统疾病发病率之间存在显著的正相关性。此外，PM2.5污染水平还与心血管疾病发病率之间存在显著的正相关性。本研究为制定有效的空气污染治理策略提供了科学依据。

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Data Collection

What data will you collect or create?

2018-2023 26 26 PM2.5 NO₂ GDP

How will the data be collected or created?

API Python API

Documentation and Metadata

What documentation and metadata will accompany the data?

JSON

Ethics and Legal Compliance

How will you manage any ethical issues?

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

CC BY OGD MIT

Storage and Backup

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

NAS 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)"

Dataset covering 2018-2023, updated 26 January 2026. This dataset provides a comprehensive overview of the United States population, including demographic and geographic data. The data is sourced from the U.S. Census Bureau and is available for research and analysis. The dataset is organized into a structured format, allowing for easy access and interpretation of the information. It includes data on population growth, migration, and other key demographic factors. The data is presented in a clear and concise manner, making it accessible to a wide range of users. The dataset is a valuable resource for researchers, policymakers, and anyone interested in understanding the United States population.

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