Monthly average dew point monitoring data set in south and southeast Asia(1989-2018)

Data Documentation

I. Dataset/atlas content features

i. Abstract

The data set is calculated and interpolated by weather station data. The meteorological site data comes from NOAA, which includes data such as temperature, wind speed, and precipitation. The research team processes the daily weather station data into monthly data, and then interpolates through Kriging to form raster data covering the entire study area.

The dataset shows monthly average dew point in South and Southeast Asia, providing a reference for users and further research.

ii. Elements (content fields)

Table 1 Description of data element content

Data name	Item (field)	Field name in Chinese	Field measure unit	Field code description	Remarks
DEWP_MEAN	Value	月平均露点	Fahrenheit degree		

iii. Temporal cover

1989–2018

iv. Spatial cover

South Asia: India, Bangladesh, Pakistan, Sri Lanka, Nepal, Bhutan; Southeast Asia: Indonesia, Thailand, Malaysia, Philippines, Vietnam, Myanmar, Cambodia, Laos.

II. Subject/industry scope of dataset/atlas

i. Subject scope

Earth science

ii. Industry scope

Heat wave service

iii. Other classifications (optional)

III. Accuracy of dataset/atlas

i. Time frequency

1 month

ii. Spatial reference, accuracy, and granularity

Spatial reference: GCS_WGS_1984

Accuracy: 1 time

Spatial resolution: 0.1 degree * 0.1 degree

Granularity: station

IV. Dataset/atlas storage management

i. Data quantity

2.55GB

ii. Type format

The data set is stored on hard disk, and the data structure type is raster data.

iii. Update management

Updated from time to time.

V. Quality control of the dataset/atlas

i. Production mode

The data set is calculated and interpolated from meteorological station data.

ii. Data sources (condition selection)

NOAA Meteorological Station Data

iii. Methods of the data acquisition and processing (condition selection)

The research team processed the daily weather station data into monthly data, and then interpolated by Kriging to form raster data covering the entire study area.

VI. Sharing and usage method of the dataset/atlas

i. Sharing methods and restrictions

Fully shared

ii. Contact information of the sharing service (condition selection)

The service is as follows:

Name: Yang fei

Mailing address: A11 Datun Road, Chaoyang District, Beijing

Zip code: 100101

E-mail：yangfei@lreis.ac.cn

iii. Conditions and methods of usage

Use ArcGIS, ENVI and other software to open.

VII. Intellectual property rights of the dataset/atlas

i. Property rights (optional)

“Monthly average dew point monitoring data set in south and southeast Asia(1989-2018)” owned by institute of geographic sciences and natural resources research, CAS.

ii. Reference method of the dataset/atlas

Monthly average dew point monitoring data set in south and southeast Asia(1989-2018). Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO,2019.9.18.

iii. Usage contacts of the datasets/atlas

Contact person

Name: Yang fei

Mailing address: A11 Datun Road, Chaoyang District, Beijing

Zip code: 100101

E-mail：yangfei@lreis.ac.cn

VIII. Others (optional)

In addition to the above, other information must also be explained.

Data documentation author information			
Data documentation author	Cong YIN	Update time	2019.9.18
Organization	Institute of geographic sciences and natural resources research, CAS.		
Contact information	E-mail		

Address	A11 Datun Road, Chaoyang District, Beijing	Postcode	100101
Telephone		E-mail	yinc.18s@igsnrr.ac.cn