**Monthly total precipitation monitoring data set for South Asia 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 total precipitation in South and Southeast Asia, providing a reference for users and further research.

ii. Elements (content fields)

<table>
<thead>
<tr>
<th>Data name</th>
<th>Item (field)</th>
<th>Field name in Chinese</th>
<th>Field measure unit</th>
<th>Field code description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRCP_SUM</td>
<td>Value</td>
<td>月总降水量</td>
<td>mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 total precipitation monitoring data set for South Asia and southeast Asia(1989-2018)” owned by Institute of Geographic Sciences and Natural Resources Research, CAS.

ii. Reference method of the dataset/atlas

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.

<table>
<thead>
<tr>
<th>Data documentation author information</th>
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</thead>
<tbody>
<tr>
<td>Data documentation author</td>
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<tr>
<td>Organization</td>
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<tr>
<td>Contact information</td>
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<tr>
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