Monthly mean station pressure monitoring data set for 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 site pressure in South and Southeast Asia, providing a reference for users and further research.

   ii. Elements (content fields)

      Table 1 Description of data element content

<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>STP_MEAN</td>
<td>Value</td>
<td>月平均站点气压</td>
<td>pa</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 mean station pressure monitoring data set for south 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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Data documentation author</td>
<td>Cong YIN</td>
</tr>
<tr>
<td>Organization</td>
<td>Institute of geographic sciences and natural resources research, CAS.</td>
</tr>
<tr>
<td>Contact information</td>
<td>E-mail</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Address</td>
<td>A11 Datun Road, Chaoyang District, Beijing</td>
</tr>
<tr>
<td>Telephone</td>
<td>E-mail</td>
</tr>
</tbody>
</table>