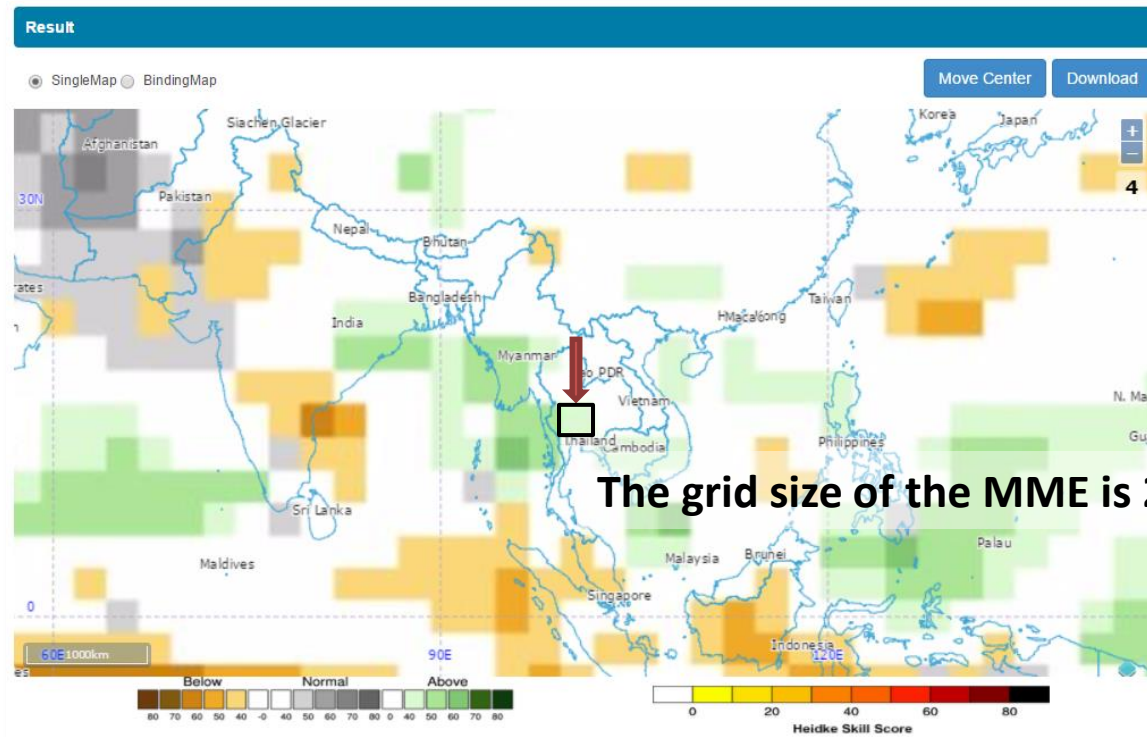


CLIK hands-on (PART III):
Data Processing for CLIK
(<http://clik.apcc21.org>)

Daeun Jeong
8 Jun 2017

Dynamical Forecast

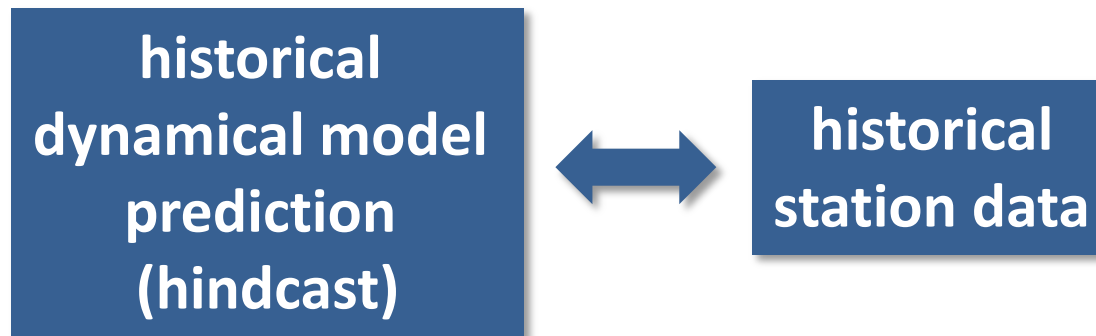


What if you want to know a forecast information at a specific point?

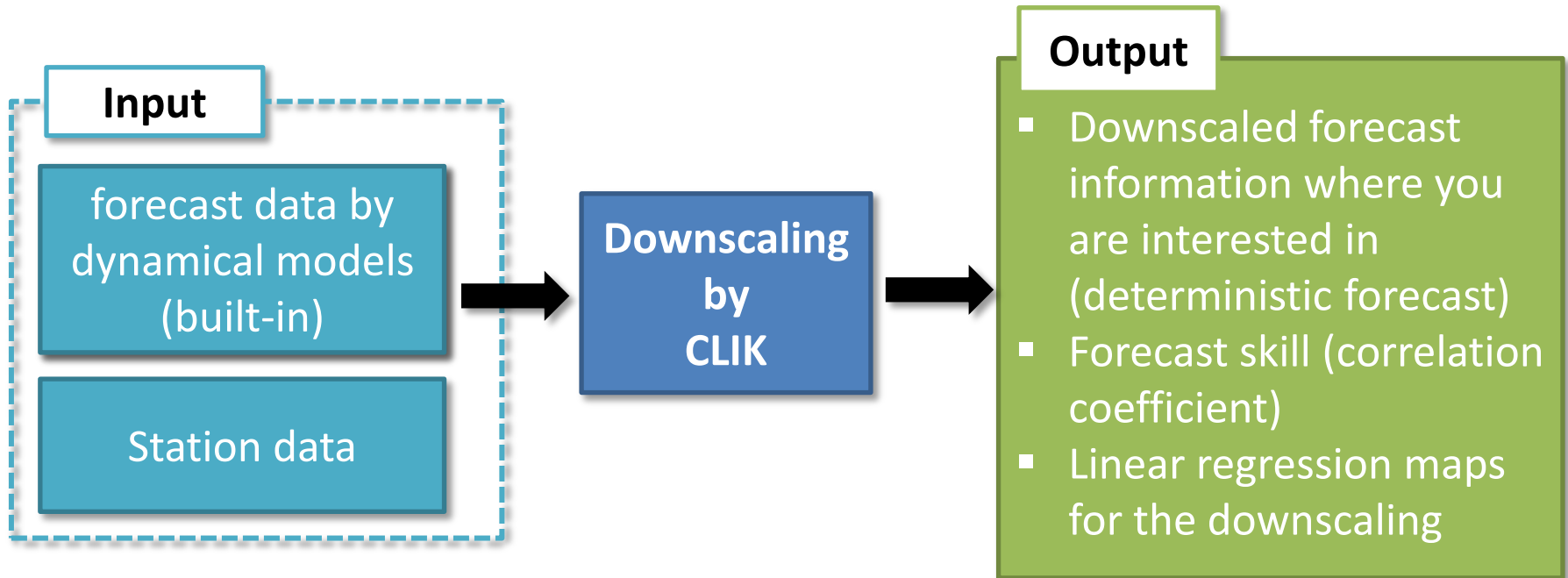
Downscaling by CLIK

“Post-Processing of forecast data”

- CLIK provides “downscaling”.
- CLIK adopts the relationships between forecast (by dynamical models) and station data.



Downscaling by CLIK



Data processing and downscaling!

Data Processing

- ✓ **Target station: Phetchaburi**
- ✓ **Directory: Data for hands-on>Thailand>station**



Step 1. Prepare input data

Metadata

Phetchaburi_meta.txt

Observation
data

Phetchaburi_prec.txt

Station
information

Station data itself

Data Processing

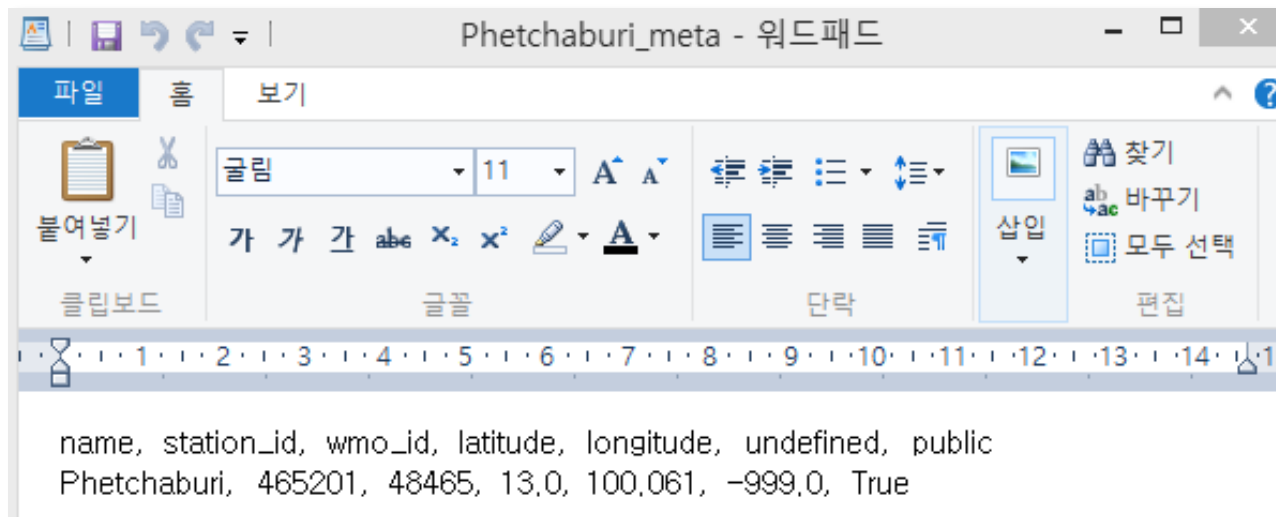
Step 1. Prepare input data

Metadata

Phetchaburi_meta.txt

Observation
data

Phetchaburi_prec.txt



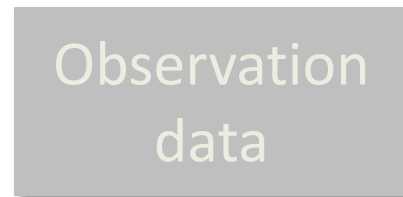
```
name, station_id, wmo_id, latitude, longitude, undefined, public
Phetchaburi, 465201, 48465, 13.0, 100.061, -999.0, True
```

- **Name:** name of the station
- **Station_id:** unique id for the station (integer)
- **WMO_id:** WMO_id for station (integer, any number)
- **Latitude:** latitude for this station (float, for mapping)
- **Longitude:** longitude for this station (float, for mapping)
- **Undefined:** missing data (numeric)
- **Public:** true if your data can be used by others, and false if your data can not be used by others

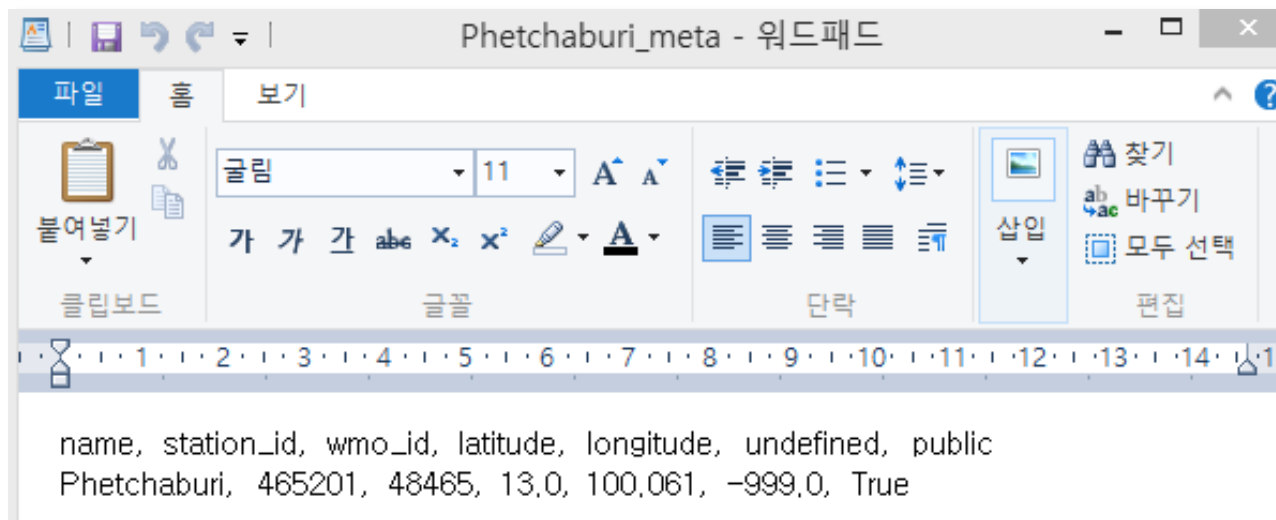
Step 1. Prepare input data



Phetchaburi_meta.txt



Phetchaburi_prec.txt



- Use notepad.
- Data should be delimited by comma (,), space (), tab (), or colon (:).

Data Processing

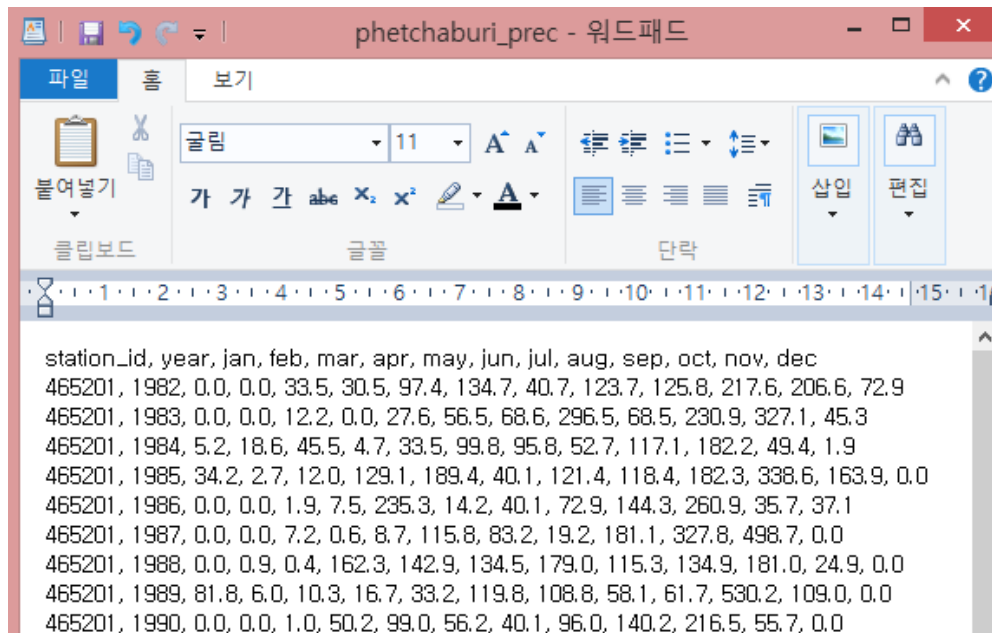
Step 1. Prepare input data

Metadata

Phetchaburi_meta.txt

Observation
data

Phetchaburi_prec.txt



```
station_id, year, jan, feb, mar, apr, may, jun, jul, aug, sep, oct, nov, dec
465201, 1982, 0.0, 0.0, 33.5, 30.5, 97.4, 134.7, 40.7, 123.7, 125.8, 217.6, 206.6, 72.9
465201, 1983, 0.0, 0.0, 12.2, 0.0, 27.6, 56.5, 68.6, 296.5, 68.5, 230.9, 327.1, 45.3
465201, 1984, 5.2, 18.6, 45.5, 4.7, 33.5, 99.8, 95.8, 52.7, 117.1, 182.2, 49.4, 1.9
465201, 1985, 34.2, 2.7, 12.0, 129.1, 189.4, 40.1, 121.4, 118.4, 182.3, 338.6, 163.9, 0.0
465201, 1986, 0.0, 0.0, 1.9, 7.5, 235.3, 14.2, 40.1, 72.9, 144.3, 260.9, 35.7, 37.1
465201, 1987, 0.0, 0.0, 7.2, 0.6, 8.7, 115.8, 83.2, 19.2, 181.1, 327.8, 498.7, 0.0
465201, 1988, 0.0, 0.9, 0.4, 162.3, 142.9, 134.5, 179.0, 115.3, 134.9, 181.0, 24.9, 0.0
465201, 1989, 81.8, 6.0, 10.3, 16.7, 33.2, 119.8, 108.8, 58.1, 61.7, 530.2, 109.0, 0.0
465201, 1990, 0.0, 0.0, 1.0, 50.2, 99.0, 56.2, 40.1, 96.0, 140.2, 216.5, 55.7, 0.0
```

- Use notepad.
- Copy and paste the data from EXCEL to Notepad.
- One year per row.
- Data should be delimited by comma (,), space (), tab (), or colon (:).

Step 2. Upload data to CLIK



Prediction

Downscale

My Page

Logout Edit

Select Dataset / Station

Datasets

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interploated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |

Create

Edit

Remove



Step 2. Upload data to CLIK

The screenshot shows the CLIK web interface with the 'Downscale' tab selected. A modal window titled 'Dataset base information' is open, containing a form with the following fields:

- Name: Thailand
- Description: Thailand

Below the form, it states 'All fields are required.' and has two buttons: 'Close' and 'Create Dataset'. The 'Create Dataset' button is circled in red, and a hand icon is pointing to it.

The background shows a table of datasets and a map of Southeast Asia.

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interploated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |

Step 2. Upload data to CLIK



Prediction

Downscale

My Page

Logout Edit

Select Dataset / Station

Datasets

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interploated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |
| Thailand | | 0 | N/A | N/A | downy |



Create Edit Remove

Step 2. Upload data to CLIK



Prediction

Downscale

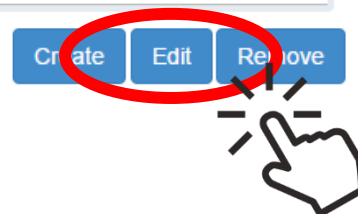
My Page

Logout Edit

Select Dataset / Station

Datasets

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interploated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |
| Thailand | | 0 | N/A | N/A | downy |



Step 2. Upload data to CLIK

Metadata

Prediction **Downscale** My Page

Logout Edit

Stations in Thailand

| Station ID | Country | NAME | WMOID | Latitude | Longitude | Undefined |
|------------|---------|------|-------|----------|-----------|-----------|
|------------|---------|------|-------|----------|-----------|-----------|

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Observed Data

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Close

1

Step 2. Upload data to CLIK

Metadata

Prediction **Downscale** My Page

Logout Edit

Stations in Thailand

| Station ID | Country | NAME | WMOID | Latitude | Longitude | Undefined |
|------------|---------|------|-------|----------|-----------|-----------|
|------------|---------|------|-------|----------|-----------|-----------|

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Station File Uploader

Field Separator Comma(,) Space() Tab() Colon(:)

Country

Station definition file (example)

Select File...

Upload

Observed Data

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Close

Step 2. Upload data to CLIK

Metadata

Prediction **Downscale** My Page

Logout Edit

Stations in Thailand

Station ID Country NAME WMOID Latitude Longitude Undefined

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Station File Uploader

Field Separator Comma(,) Space() Tab() Colon(:)

Country Thailand

Station definition file (example) Select File... Phetchaburi_meta.txt

Upload

Observed Data

Year Variable Unit JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Close

Step 2. Upload data to CLIK

Metadata

1

The screenshot shows the CLIK web interface. At the top, there are navigation tabs: 'Prediction', 'Downscale', and 'My Page'. The 'Downscale' tab is active. Below the navigation, there is a 'Logout' and 'Edit' link. The main content area is titled 'Stations in Thailand' and contains a table with the following data:

| Station ID | Country | NAME | WMOID | Latitude | Longitude | Undefined |
|------------|----------|-------------|-------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |

Below the table, there are buttons for 'Upload', 'Export', 'Insert', and 'Modify'. The 'Station File Uploader' section is visible, showing a 'Field Separator' dropdown set to 'Comma(.)', a 'Country' dropdown set to 'Select Country', and a 'Station definition file (example)' input field containing 'Phetchaburi_meta.txt'. A 'Close' button is located at the bottom center of the interface.

An 'Information' modal window is overlaid on the interface, displaying the message 'Success! Stations File Upload.' and a 'Close' button. A red circle highlights the 'Close' button in the modal, and a hand icon is pointing to it.

Step 2. Upload data to CLIK

Metadata

Prediction **Downscale** My Page

Logout Edit

Stations in Thailand

| Station ID | Country | NAME | WMO ID | Latitude | Longitude | Undefined |
|------------|----------|-------------|--------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |

Showing 1 to 1 of 1 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Station File Uploader

Field Separator

Comma(,) Space() Tab() Colon(:)

Country

Select Country

Station definition file (example)

Select File...

Phetchaburi_meta.txt

Upload

Observed Data

Year Variable Unit JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Close

Step 2. Upload data to CLIK

Metadata

Prediction **Downscale** My Page

Logout Edit

Stations in Thailand

1

| Station ID | Country | NAME | WMO ID | Latitude | Longitude | Undefined |
|------------|----------|-------------|--------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |

Showing 1 to 1 of 1 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Station File Uploader

Field Separator

Comma(,) Space() Tab() Colon(:)

Select Country

Observation data

file (example)

Select File...

Phetchaburi_meta.txt

Upload

2

Observed Data of station 465201 on Thailand

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|----------------------------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| No data available in table | | | | | | | | | | | | | | |

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Close



Data Processing

Step 2. Upload data to CLIK

Metadata

1

CLIK Climate Information Toolkit Prediction **Downscale** My Page Logout Edit

Stations in Thailand

| Station ID | Country | NAME | WMO ID | Latitude | Longitude | Undefined |
|------------|----------|-------------|--------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |

Showing 1 to 1 of 1 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload Export Insert Modify

Station File Uploader

Field Separator Comma(,) Space() Tab() Colon(:)

Country

Station definition file (example) Upload

Observed Data of station 465201 on Thailand

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|----------------------------|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| No data available in table | | | | | | | | | | | | | | |

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload Export Insert Modify

Observed Data File Uploader

Field separator Comma(,) Space() Tab() Colon(:)

Variable Precipitation Temperature

Unit mm/month mm/day others:

Country

Observed data file (example) Upload

Close

Observation data

2

Data Processing

Step 2. Upload data to CLIK

Metadata

1

The screenshot shows the CLIK interface with the 'Downscale' tab selected. A table titled 'Stations in Thailand' contains one entry for station 465201 in Phetchaburi, Thailand. Below the table is the 'Station File Uploader' form, which includes options for field separator (Comma, Space, Tab, Colon), a country dropdown menu, and a file selection button.

Observation data

2

The screenshot shows the 'Observed Data of station 465201 on Thailand' section, which is currently empty. Below it is the 'Observed Data File Uploader' form. This form has several fields: 'Field separator' (Comma selected), 'Variable' (Precipitation selected), 'Unit' (mm/month selected), and 'Country' (Thailand selected). The 'Observed data file' field contains 'Phetchaburi_prec.txt'. The 'Upload' button is circled in red, and a hand cursor is pointing at it. Four red checkmarks are visible on the left side of the form, indicating that the configuration is correct.

Data Processing

Step 2. Upload data to CLIK

Metadata

1

The screenshot shows the CLIK web interface with the following elements:

- Navigation:** Prediction, Downscale, My Page, Logout, Edit
- Stations in Thailand Table:**

| Station ID | Country | NAME | WMO ID | Latitude | Longitude | Undefined |
|------------|----------|-------------|--------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |
- Station File Uploader:** Field Separator (Comma, Space, Tab, Colon), Country (Select Country), Station definition file (Phetchaburi_meta.txt)
- Observed Data Table:** Year, Variable, Unit, SEP, OCT, NOV, DEC
- Observed Data File Uploader:** Field separator, Variable (Precipitation, Temperature), Unit (mm/month, mm/day, others), Country (Thailand), Observed data file (Phetchaburi_prec.txt)
- Information Dialog:** Success! Observed Data File Upload. Close

Observation data

2

Data Processing

Step 2. Upload data to CLIK

Metadata

1

Stations in Thailand

| Station ID | Country | NAME | WMOID | Latitude | Longitude | Undefined |
|------------|----------|-------------|-------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |

Showing 1 to 1 of 1 entries

Row Count 5 Rows 10 Rows 15 Rows

Observed Data of station 465201 on Thailand

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|----------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1982 | PREC | mm/month | 0 | 0 | 33.5 | 30.5 | 97.4 | 134.7 | 40.7 | 123.7 | 125.8 | 217.6 | 206.6 | 72.9 |
| 1983 | PREC | mm/month | 0 | 0 | 12.2 | 0 | 27.6 | 56.5 | 68.6 | 296.5 | 68.5 | 230.9 | 327.1 | 45.3 |
| 1984 | PREC | mm/month | 5.2 | 18.6 | 45.5 | 4.7 | 33.5 | 99.8 | 95.8 | 52.7 | 117.1 | 182.2 | 49.4 | 1.9 |
| 1985 | PREC | mm/month | 34.2 | 2.7 | 12 | 129.1 | 189.4 | 40.1 | 121.4 | 118.4 | 182.3 | 338.6 | 163.9 | 0 |
| 1986 | PREC | mm/month | 0 | 0 | 1.9 | 7.5 | 235.3 | 14.2 | 40.1 | 72.9 | 144.3 | 260.9 | 35.7 | 37.1 |

Showing 1 to 35 of 35 entries

Row Count 5 Rows 10 Rows 15 Rows

Observed Data File Uploader

Field separator Comma(,) Space() Tab() Colon(:)

Variable Precipitation Temperature

Unit mm/month mm/day others:

Country

Observed data file (example)

Observation data

2

Data Processing

Step 2. Upload data to CLIK

CLIK Climate Information Toolkit

Prediction **Downscale** My Page Logout Edit

Select Dataset / Station

Datasets

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|---|--------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interpolated to Mons... Afghanistan, Bangladesh, Brunei D... | | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Thainad | Thailand | 1 | 1982 ~ 2016 | N/A | downy |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |


Create Edit Remove

How to use?

Add Remove

Data Processing

Step 2. Upload data to CLIK



Prediction **Downscale** My Page Logout Edit

Select Dataset / Station

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interpolated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Thainad | Thailand | 1 | 1982 ~ 2016 | N/A | downy |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |

Create Edit Remove



How to use?

Add Remove

Data Processing

Step 2. Upload data to CLIK

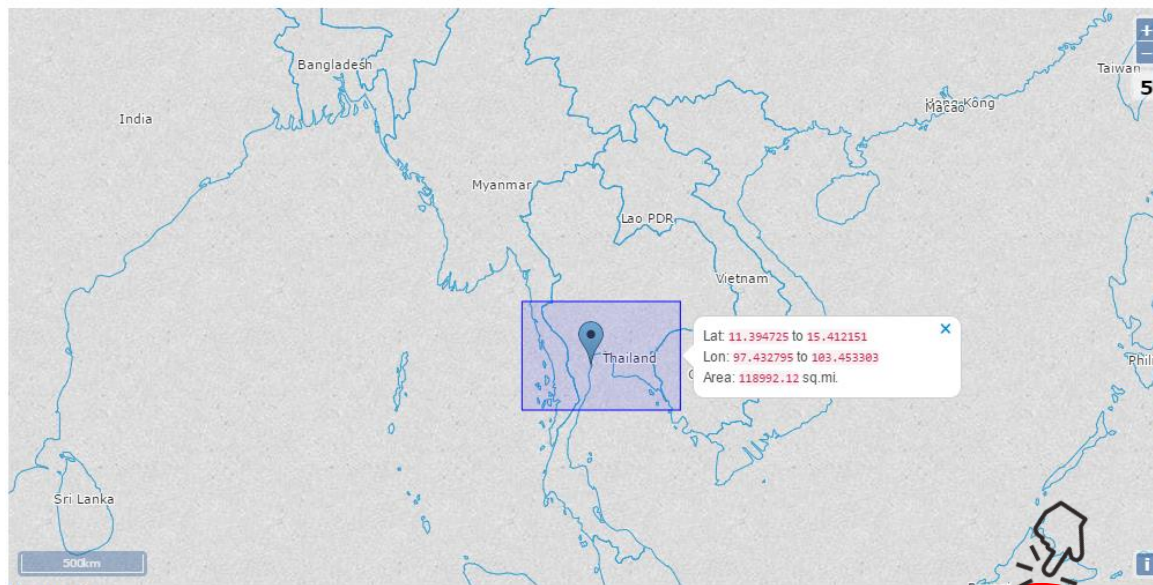
CLIK Climate Information Toolkit

Prediction **Downscale** My Page Logout Edit

Select Dataset / Station

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------------|--------------|--------------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interpolated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Thainad | Thailand | 1 | 1982 ~ 2016 | N/A | downy |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |

Create Edit Remove



How to use?

Add Remove

Data Processing

Step 2. Upload data to CLIK

| Station (1) | | | | |
|--------------------------|------------|-------------|------------------|-------------|
| <input type="checkbox"/> | Station ID | Name | Precipitation | Temperature |
| <input type="checkbox"/> | 465201 | Phetchaburi | 1982/1 ~ 2016/12 | N/A |

| Common data period of selected stations | | | | | | | | | | | | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Precipitation | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 | 1982 ~ 2016 |

[NEXT](#)

Data Processing

Step 2. Upload data to CLIK

Example error 1

Phetchaburi_prec - 워드패드

station_id, year, jan, feb, mar, apr, may, jun, jul, aug, sep, oct, nov, dec
465201, 1982, 0.0, 0.0, 33.5, 30.5, 97.4, 134.7, 40.7, 123.7, 125.8, 217.6, 206.6, 72.9
465201, 1983, 0.0, 0.0, 12.2, 0.0, 27.6, 56.5, 68.6, 296.5, 68.5, 230.9, 327.1, 45.3
465201, 1984, 5.2, 18.6, 45.5, 4.7, 33.5, 99.8, 95.8, 52.7, 117.1, 182.2, 49.4, 1.9
465201, 1985, 34.2, 2.7, 12.0, 129.1, 189.4, 40.1, 121.4, 118.4, 182.3, 338.6, 163.9, 0.0
465201, 1986, 0.0, 0.0, 1.0, 7.5, 235.3, 14.2, 40.1, 72.9, 144.3, 260.9, 35.7, 37.1
465201, 1987,
465201, 1988,

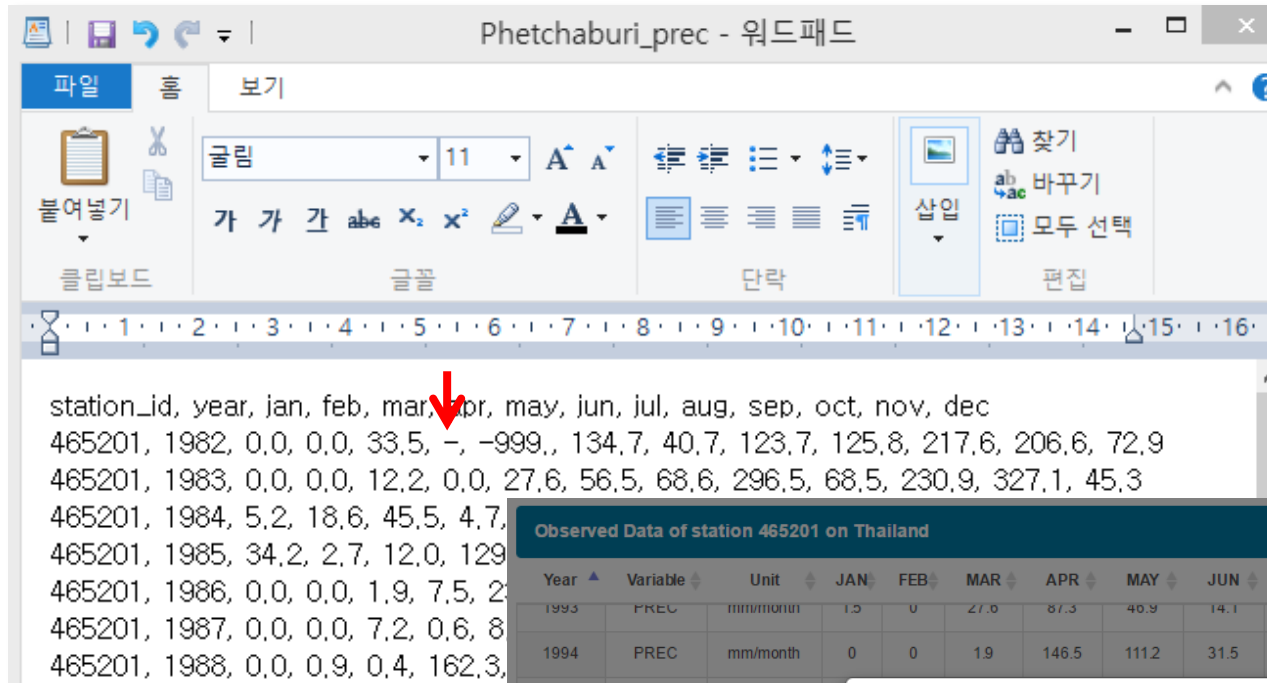
Observed Data of station 465201 on Thailand

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|----------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1982 | PREC | mm/month | 0 | 0 | 30.5 | 97.4 | 134.7 | 40.7 | 123.7 | 125.8 | 217.6 | 206.6 | 72.9 | 72.9 |
| 1983 | PREC | mm/month | 0 | 0 | 0 | 27.6 | 56.5 | 68.6 | 296.5 | 68.5 | 230.9 | 327.1 | 45.3 | 45.3 |
| 1984 | PREC | mm/month | 5.2 | 18.6 | 4.7 | 33.5 | 99.8 | 95.8 | 52.7 | 117.1 | 182.2 | 49.4 | 1.9 | 1.9 |
| 1985 | PREC | mm/month | 34.2 | 2.7 | 129.1 | 189.4 | 40.1 | 121.4 | 118.4 | 182.3 | 338.6 | 163.9 | 0 | 0 |
| 1986 | PREC | mm/month | 0 | 0 | 7.5 | 235.3 | 14.2 | 40.1 | 72.9 | 144.3 | 260.9 | 35.7 | 37.1 | 37.1 |

Data Processing

Step 2. Upload data to CLIK

Example error 2



Observed Data of station 465201 on Thailand

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|----------|-----|-----|------|-------|-------|------|------|-------|-------|-------|-----|-----|
| 1993 | PREC | mm/month | 1.5 | 0 | 27.0 | 87.3 | 40.9 | 14.1 | 95.8 | 187.8 | 417.0 | 21.8 | 0 | 0 |
| 1994 | PREC | mm/month | 0 | 0 | 19 | 146.5 | 111.2 | 31.5 | 72.7 | 141.5 | 72.5 | 2.6 | 5 | 5 |
| 1995 | PREC | mm/month | | | | | | | | | | 21.1 | 0 | 0 |
| 1996 | PREC | mm/month | | | | | | | | | | 47.9 | 9.2 | 9.2 |
| 1997 | PREC | mm/month | 3 | | | | | | | | | 214.4 | 0 | 0 |

Showing 1 to 35 of 35 entries

Row Count 5 Rows 10 Rows 15 Rows

Observed Data File Uploader

Field separator Comma

Variable Precipitation

Export, Insert, Modify

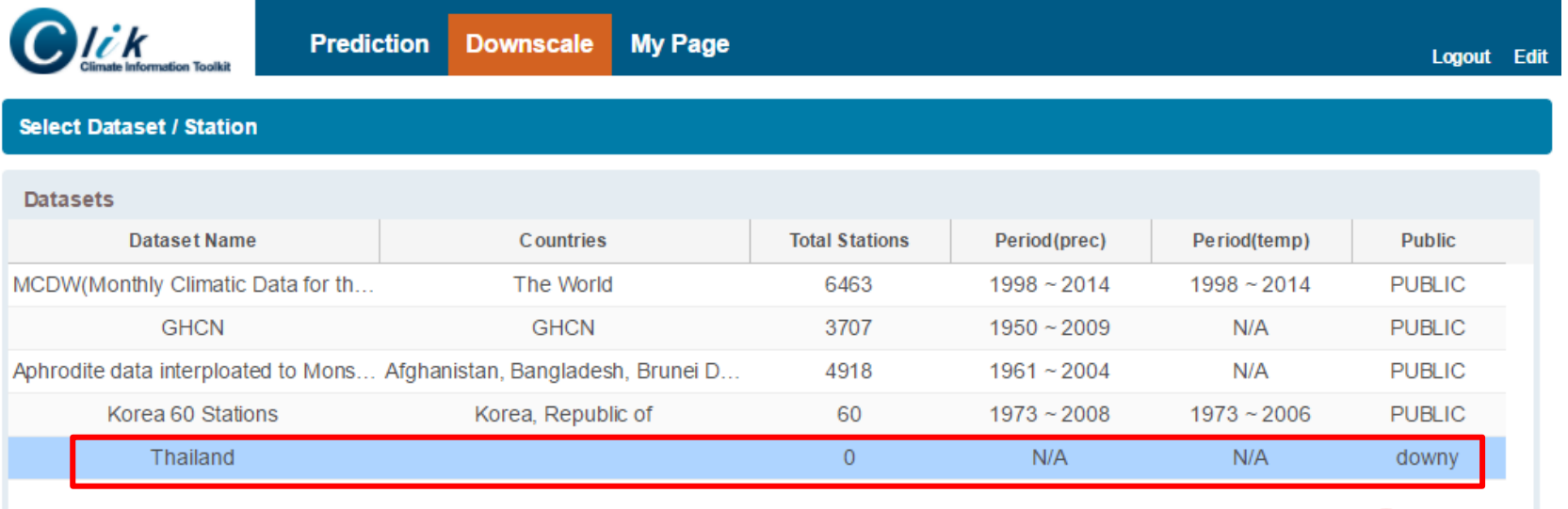
Information

Failed Observed Data Upload: ### Error updating database. Cause: java.sql.SQLException: Data truncated for column 'mar' at row 2 ### The error may involve org.apcc21.clik.server.service.INSERT_STATION_OBS_DATA_NO_STATION_NAME-Inline ### The error occurred while setting parameters ### Cause: java.sql.SQLException: Data truncated for column 'mar' at row 2

Close

Upload more station data!

✓ Ranong and Songkhla in Thailand



The screenshot shows the Clik Climate Information Toolkit interface. At the top, there are navigation tabs: Prediction, Downscale (highlighted), and My Page. On the right, there are links for Logout and Edit. Below the navigation is a header for 'Select Dataset / Station'. The main content is a table titled 'Datasets' with the following columns: Dataset Name, Countries, Total Stations, Period(prec), Period(temp), and Public. The 'Thailand' row is highlighted with a red box. Below the table, there are three buttons: Create, Edit, and Remove. The 'Edit' button is circled in red, and a hand icon is pointing to it.

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interploated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |
| Thailand | | 0 | N/A | N/A | downy |

Upload more station data!

✓ Ranong and Songkhla in Thailand

Metadata

Prediction

Downscale

My Page

Logout Edit

1

Stations in Thailand

| Station ID | Country | NAME | WMOID | Latitude | Longitude | Undefined |
|------------|----------|-------------|-------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |

Showing 1 to 1 of 1 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Observation
data

Variable Unit JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

No data available in table

Showing 0 to 0 of 0 entries

Row Count 5 Rows 10 Rows 15 Rows

Upload

Export

Insert

Modify

Close

✓ Select the exact field separator!

✓ Click the box of the station in 1 before uploading observation data in 2 !

Exercise

Upload more station data!

✓ Ranong

✓ Songkhla

Clik Climate Information Toolkit | Prediction | **Downscale** | My Page | Logout | Edit

Stations in Thailand

| Station ID | Country | NAME | WMO ID | Latitude | Longitude | Undefined |
|------------|----------|-------------|--------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |
| 532201 | Thailand | Ranong | 48532 | 10 | 98.617 | -999 |
| 568501 | Thailand | Songkhla | 48568 | 7.2 | 100.608 | -999 |

Showing 1 to 3 of 3 entries

Row Count: 5 Rows 10 Rows 15 Rows

[Upload](#) [Export](#) [Insert](#) [Modify](#)

Station File Uploader

Field Separator: Comma(,) Space() Tab() Colon(:)

Country:

Station definition file (example): [Upload](#)

Observed Data of station 532201 on Thailand

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|----------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|
| 1982 | PREC | mm/month | 0 | 0 | 70.9 | 129.5 | 351.3 | 299.2 | 719.6 | 1035.7 | 534.4 | 230.2 | 130.5 | 58.4 |
| 1983 | PREC | mm/month | 4.9 | 0 | 14.7 | 0.6 | 46.2 | 781.5 | 537.3 | 912.1 | 783.6 | 347.2 | 295.8 | 20.9 |
| 1984 | PREC | mm/month | 21.6 | 6.6 | 13.8 | 441.7 | 391.4 | 882.7 | 424.3 | 880.3 | 420.3 | 253.7 | 22.1 | 92.2 |
| 1985 | PREC | mm/month | 24.1 | 41.4 | 106.5 | 154.5 | 165.6 | 983.4 | 204.5 | 810.3 | 643.8 | 420.1 | 132.9 | 28.6 |
| 1986 | PREC | mm/month | 0.3 | 2.7 | 10.6 | 95.6 | 907.1 | 684.2 | 875.3 | 1143.7 | 1005 | 305.1 | 168.3 | 26.3 |

Showing 1 to 35 of 35 entries

Row Count: 5 Rows 10 Rows 15 Rows

[Upload](#) [Export](#) [Insert](#) [Modify](#)

Clik Climate Information Toolkit | Prediction | **Downscale** | My Page | Logout | Edit

Stations in Thailand

| Station ID | Country | NAME | WMO ID | Latitude | Longitude | Undefined |
|------------|----------|-------------|--------|----------|-----------|-----------|
| 465201 | Thailand | Phetchaburi | 48465 | 13 | 100.061 | -999 |
| 532201 | Thailand | Ranong | 48532 | 10 | 98.617 | -999 |
| 568501 | Thailand | Songkhla | 48568 | 7.2 | 100.608 | -999 |

Showing 1 to 3 of 3 entries

Row Count: 5 Rows 10 Rows 15 Rows

[Upload](#) [Export](#) [Insert](#) [Modify](#)

Station File Uploader

Field Separator: Comma(,) Space() Tab() Colon(:)

Country:

Station definition file (example): [Upload](#)

Observed Data of station 568501 on Thailand

| Year | Variable | Unit | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|----------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1982 | PREC | mm/month | 28.8 | 0 | 35.5 | 205 | 119.6 | 140.5 | 106.9 | 134.2 | 75.6 | 303.2 | 398.5 | 313.6 |
| 1983 | PREC | mm/month | 24.3 | 0 | 153.6 | 1 | 93.5 | 160.7 | 82.2 | 99.1 | 133.3 | 191.3 | 439 | 723.2 |
| 1984 | PREC | mm/month | 68.9 | 75.7 | 69.3 | 158.2 | 90.5 | 87.2 | 106.7 | 40.7 | 211.4 | 219.6 | 352.4 | 810.4 |
| 1985 | PREC | mm/month | 10.6 | 38.6 | 91 | 98 | 147.7 | 44.5 | 97.4 | 110.3 | 237 | 211.6 | 454.4 | 485.3 |
| 1986 | PREC | mm/month | 105.5 | 0 | 0.8 | 15.6 | 238.8 | 130.9 | 37.3 | 35.4 | 70.4 | 308.1 | 747 | 170.6 |

Showing 1 to 35 of 35 entries

Row Count: 5 Rows 10 Rows 15 Rows

[Upload](#) [Export](#) [Insert](#) [Modify](#)

Upload more station data!

✓ Cambodia, Lao, and Malaysia



Prediction

Downscale

My Page

Logout Edit

Select Dataset / Station

Datasets

| Dataset Name | Countries | Total Stations | Period(prec) | Period(temp) | Public |
|--|--------------------------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World | 6463 | 1998 ~ 2014 | 1998 ~ 2014 | PUBLIC |
| GHCN | GHCN | 3707 | 1950 ~ 2009 | N/A | PUBLIC |
| Aphrodite data interploated to Mons... | Afghanistan, Bangladesh, Brunei D... | 4918 | 1961 ~ 2004 | N/A | PUBLIC |
| Korea 60 Stations | Korea, Republic of | 60 | 1973 ~ 2008 | 1973 ~ 2006 | PUBLIC |

Create

Edit

Remove





Thank you.