

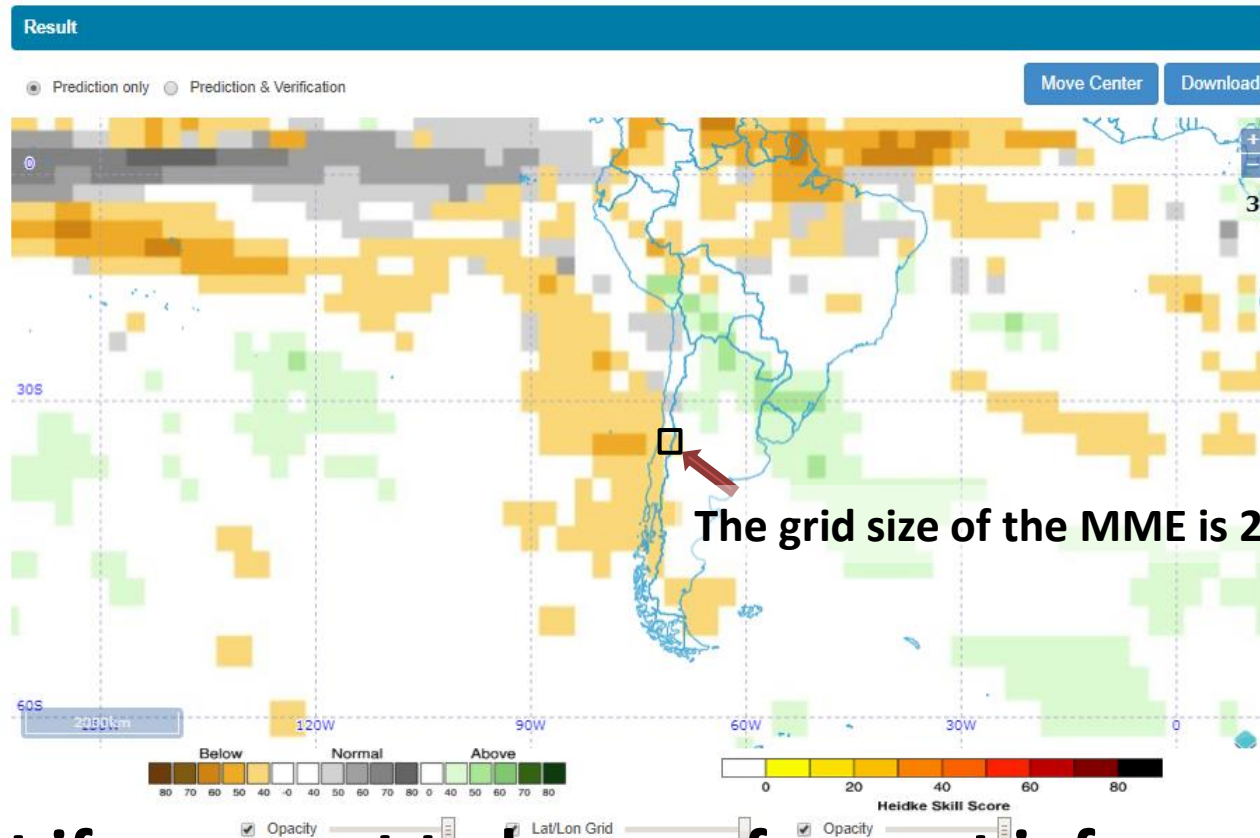
CLIK hands-on (part III):

# Data Processing for CLIK

(<http://clik.apcc21.org>)

Daeun Jeong  
29 August 2019

# Dynamical Forecast



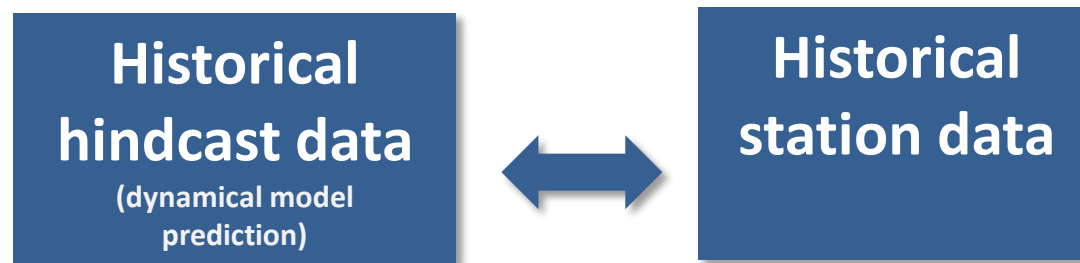
The grid size of the MME is 2.5° by 2.5°.

**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.

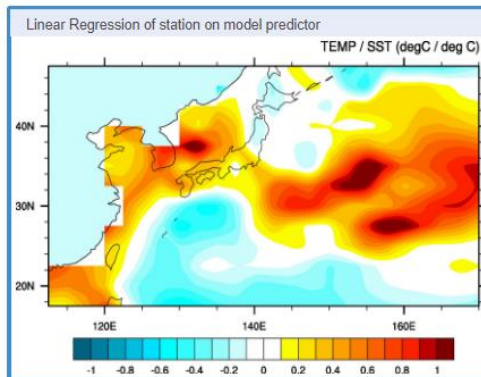
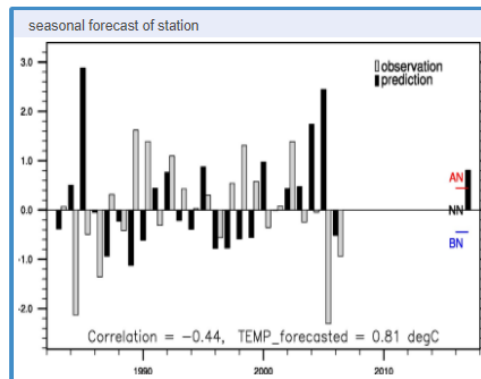
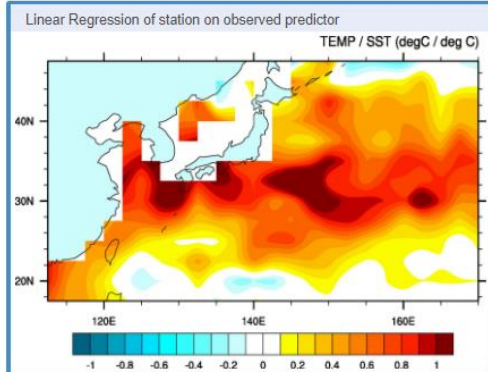


# Downscaling by CLIK

## Input

forecast data by dynamical models (built-in)

Station data



## Output

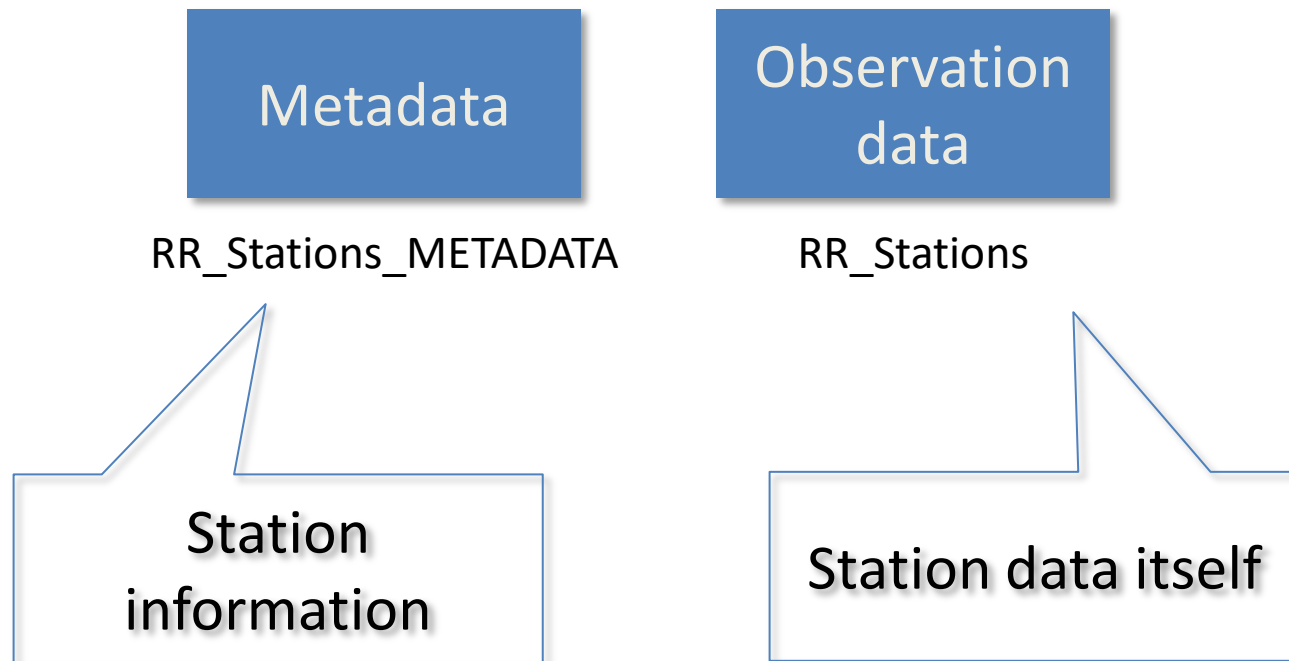
Downscaled forecast of a station where you are interested (deterministic forecast)

Forecast skill (correlation coefficient)

Linear regression maps

**Data processing and downscaling!**

# Step 1. Prepare input data



## Data Processing

## Step 1. Prepare input data

Metadata

RR\_Stations\_METADATA

Observation  
data

RR\_Stations

```
RR_Stations_METADATA.csv RR_Stations.csv
1 name;station_id;wmo_id;latitude;longitude;undefined;public
2 0Visviri;101;-99;-17,59;-69,48;-99;TRUE
3 1Putre_agro;102;-99;-18,26;-69,61;-99;TRUE
4 2Arica;103;-99;-18,36;-70,34;-99;TRUE
5 3Iquique;104;-99;-20,55;-70,18;-99;TRUE
6 4Calama;105;-99;-22,50;-68,90;-99;TRUE
7 5Antofagasta;106;-99;-23,45;-70,44;-99;TRUE
8 6Copiapo_agro;107;-99;-27,35;-70,41;-99;TRUE
9 7DesiertoAtacama;108;-99;-27,26;-70,77;-99;TRUE
10 8LaSerena;109;-99;-29,92;-71,20;-99;TRUE
11 9Combarbala_agro;110;-99;-31,19;-71,00;-99;TRUE
12 11IslaPascua;111;-99;-27,16;-109,43;-99;TRUE
13 12JuanFernandez;112;-99;-33,64;-78,83;-99;TRUE
14 13LlayLlay_agro;201;-99;-32,90;-70,95;-99;TRUE
15 14Lagunitas;202;-99;-33,05;-70,25;-99;TRUE
16 16Valparaiso_PuntaA;203;-99;-33,02;-71,65;-99;TRUE
17 17StoDomingo;204;-99;-33,66;-71,61;-99;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

## Data Processing

## Step 1. Prepare input data

Metadata

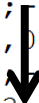
RR\_Stations\_METADATA

Observation  
data

RR\_Stations

```
RR_Stations_METADATA.csv RR_Stations.csv
1 name;station_id;wmo_id;latitude;longitude;undefined;public
2 0Visviri;101;-99;-17,59;-69,48;-99;TRUE
3 1Putre_agro;102;-99;-18,26;-69,61;-99;TRUE
4 2Arica;103;-99;-18,36;-70,34;-99;TRUE
5 3Iquique;104;-99;-20,55;-70,18;-99;TRUE
6 4Calama;105;-99;-22,50;-68,90;-99;TRUE
7 5Antofagasta;106;-99;-23,45;-70,44;-99;TRUE
8 6Copiapo_agro;107;-99;-27,35;-70,41;-99;TRUE
9 7DesiertoAtacama;108;-99;-27,26;-70,77;-99;TRUE
10 8LaSerena;109;-99;-29,92;-71,20;-99;TRUE
11 9Combarbala_agro;110;-99;-31,19;-71,00;-99;TRUE
12 11Isl_Pas;111;-99;-32,11;-70,94;-99;TRUE
13 12Jua_Per;112;-99;-32,66;-70,36;-99;TRUE
14 13LlayLlay_agro;201;-99;-32,90;-70,95;-99;TRUE
15 14Lagunitas;202;-99;-33,05;-70,25;-99;TRUE
16 16Valparaiso_PuntaA;203;-99;-33,02;-71,65;-99;TRUE
17 17StoDomingo;204;-99;-33,66;-71,61;-99;TRUE
```

Decimal point



- **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

## Data Processing

## Step 1. Prepare input data

Metadata

RR\_Stations\_METADATA

Observation  
data

RR\_Stations

```
RR_Stations_METADATA.csv RR_Stations.csv
1 name;station_id;wmo_id;latitude;longitude;undefined;public
2 0Visviri;101;-99;-17,59;-69,48;-99;TRUE
3 1Putre_agro;102;-99;-18,26;-69,61;-99;TRUE
4 2Arica;103;-99;-18,36;-70,34;-99;TRUE
5 3Iquique;104;-99;-20,55;-70,18;-99;TRUE
6 4Calama;105;-99;-22,50;-68,90;-99;TRUE
7 5Antofagasta;106;-99;-23,45;-70,44;-99;TRUE
8 6Copiapo_agro;107;-99;-27,35;-70,41;-99;TRUE
9 7DesiertoAtacama;108;-99;-27,26;-70,77;-99;TRUE
10 8LaSerena;109;-99;-29,92;-71,20;-99;TRUE
11 9Combarbala_agro;110;-99;-31,19;-71,00;-99;TRUE
12 11Isl_Pas_Paqui;111;-99;-32,11;-71,09;TRUE
13 12Jual_PuertoMonte;112;-99;-32,09;-71,36;-99;TRUE
14 13LlayLlay_agro;201;-99;-32,90;-70,95;-99;TRUE
15 14Lagunitas;202;-99;-33,05;-70,25;-99;TRUE
16 16Valparaiso_PuntaA;203;-99;-33,02;-71,65;-99;TRUE
17 17StoDomingo;204;-99;-33,66;-71,61;-99;TRUE
```

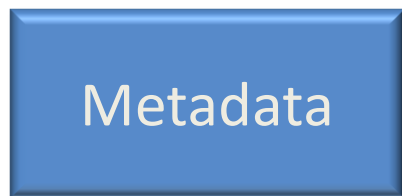
Decimal point



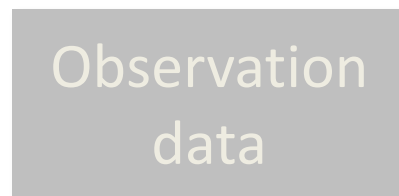
- **Name:** name of the station
- **Station\_id:** unique id for the station (integer)
- **WMO\_id:** WMO\_id for station (integer, any number)
- **Latitude:** latitude for this station (float, for mapping)
- **Longitude:** longitude for this station (float, for mapping)
- **Undefined:** missing data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

# Data Processing

## Step 1. Prepare input data



RR\_Stations\_METADATA



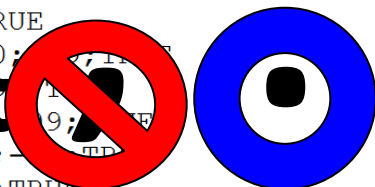
RR\_Stations

```

RR_Stations_METADATA.csv RR_Stations.csv
1 name;station_id;wmo_id;latitude;longitude;undefined;public
2 0Visviri;101;-99;-17,59;-69,48;-99;TRUE
3 1Putre_agro;102;-99;-18,26;-69,61;-99;TRUE
4 2Arica;103;-99;-18,36;-70,34;-99;TRUE
5 3Iquique;104;-99;-20,55;-70,18;-99;TRUE
6 4Calama;105;-99;-22,50;-68,90;-99;TRUE
7 5Antofagasta;106;-99;-23,45;-70,44;-99;TRUE
8 6Copiapo_agro;107;-99;-27,35;-70,41;-99;TRUE
9 7DesiertoAtacama;108;-99;-27,26;-70,77;-99;TRUE
10 8LaSerena;109;-99;-29,92;-71,20;-99;TRUE
11 9Combarbala_agro;110;-99;-31,19;-71,00;-99;TRUE
12 11Isl_Pas_Paqui;111;-99;-32,11;-70,94;-99;TRUE
13 12Jual_PuertoMonte;112;-99;-33,66;-70,36;-99;TRUE
14 13LlayLlay_agro;201;-99;-32,90;-70,95;-99;TRUE
15 14Lagunitas;202;-99;-33,05;-70,25;-99;TRUE
16 16Valparaiso_PuntaA;203;-99;-33,02;-71,65;-99;TRUE
17 17StoDomingo;204;-99;-33,66;-71,61;-99;TRUE

```

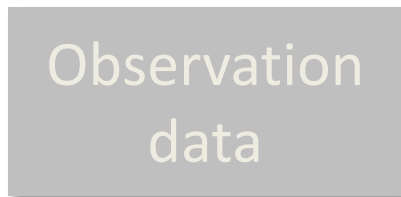
Decimal point



- **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

# Data Processing

## Step 1. Prepare input data



RR\_Stations\_METADATA

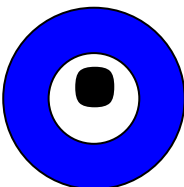
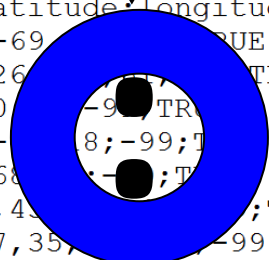
RR\_Stations

### Delimiter

```

1 name,station_id,umo_id,latitude,longitude,undefined,public
2 0Visviri;101;-99;-59;-69;TRUE
3 1Putre_agro;102;-99;-26;-70;TRUE
4 2Arica;103;-99;-36;-70;TRUE
5 3Iquique;104;-99;-10;-78;-99;TRUE
6 4Calama;105;-99;-68;-70;TRUE
7 5Antofagasta;106;-99;-23;-70;TRUE
8 6Copiapo_agro;107;-99;-27;-35;-99;TRUE
9 7DesiertoAtacama;108;-99;-27;26;-70;77;-99;TRUE
10 8LaSerena;109;-99;-29;92;-71;20;-99;TRUE
11 9Combarbala_agro;110;-99;-31;19;-71;00;-99;TRUE
12 11Isl_Pas;111;-99;-32;11;-71;09;-99;TRUE
13 12Jual_Puerto;112;-99;-36;-78;39;-99;TRUE
14 13LlayLlay_agro;201;-99;-32;90;-70;95;-99;TRUE
15 14Lagunitas;202;-99;-33;05;-70;25;-99;TRUE
16 16Valparaiso_PuntaA;203;-99;-33;02;-71;65;-99;TRUE
17 17StoDomingo;204;-99;-33;66;-71;61;-99;TRUE

```



### Decimal point

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

## Data Processing

# Step 1. Prepare input data

Metadata

RR\_Stations\_METADATA

Observation  
data

RR\_Stations

```
RR_Stations_METADATA.csv RR_Stations.csv new 1
1 name:station_id:wmo_id:latitude:longitude:undefined:public
2 0Visviri:101:-99:-17.59:-69.48:-99:TRUE
3 1Putre_agro:102:-99:-18.26:-69.61:-99:TRUE
4 2Arica:103:-99:-18.36:-70.34:-99:TRUE
5 3Iquique:104:-99:-20.55:-70.18:-99:TRUE
6 4Calama:105:-99:-22.50:-68.90:-99:TRUE
7 5Antofagasta:106:-99:-23.45:-70.44:-99:TRUE
8 6Copiapo_agro:107:-99:-27.35:-70.41:-99:TRUE
9 7DesiertoAtacama:108:-99:-27.26:-70.77:-99:TRUE
10 8LaSerena:109:-99:-29.92:-71.20:-99:TRUE
11 9Combarbala_agro:110:-99:-31.19:-71.00:-99:TRUE
12 11IslaPascua:111:-99:-27.16:-109.43:-99:TRUE
13 12JuanFernandez:112:-99:-33.64:-78.83:-99:TRUE
14 13LlayLlay_agro:201:-99:-32.90:-70.95:-99:TRUE
15 14Lagunitas:202:-99:-33.05:-70.25:-99:TRUE
16 16Valparaiso_PuntaA:203:-99:-33.02:-71.65:-99:TRUE
17 17StoDomingo:204:-99:-33.66:-71.61:-99:TRUE
```

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

# Data Processing

## Step 1. Prepare input data

Metadata

RR\_Stations\_METADATA

Observation data

RR\_Stations

```

1 station_id;year;jan;feb;mar;apr;may;jun;jul;aug;sep;oct;nov;dec
2 101;1970;33,0;71,0;39,5;0,0;0,0;0,0;0,0;0,0;0,0;6,0;0,0;12,0
3 101;1971;72,3;45,3;9,2;2,5;0,0;0,0;0,0;0,0;0,0;193,9;114,7
4 101;1972;141,6;41,3;68,4;100,2;0,0;0,0;0,0;0,0;2,0;0,0;0,0;45,7
5 101;1973;183,5;39,0;33,5;57,0;0,0;0,0;0,0;10,0;4,0;4,0;5,1;0,0
6 101;1974;227,2;167,0;52,0;16,1;0,0;0,0;0,0;46,0;0,0;0,0;6,0
7 101;1975;86,8;109,3;140,9;0,0;0,0;0,0;0,0;0,0;0,0;0,0;117,6
8 101;1976;209,7;144,5;64,5;0,0;0,0;0,0;0,0;1,5;0,0;5,1;24,5
9 101;1977;86,5;157,6;44,5;14,5;0,0;0,0;0,0;0,0;1,5;16,0;28,6;31,0
10 101;1978;147,5;7,0;33,0;16,5;0,0;0,0;1,0;1,0;0,0;0,0;57,5;58,0
11 101;1979;157,5;14,0;88,0;0,0;0,0;0,0;0,0;0,0;8,5;5,8;123,5
12 101;1980;38,0;29,0;91,0;0,0;0,0;0,0;0,0;0,0;35,0;0,0;48,0
13 101;1981;174,5;176,8;27,0;25,0;0,0;0,0;0,0;12,0;0,0;0,0;96,3
14 101;1982;79,5;26,0;98,5;0,0;0,0;0,0;0,0;0,8;63,4;0,2;28,0
15 101;1983;17,0;13,4;0,0;0,0;0,0;0,0;0,0;1,5;3,0;0,0;10,0
16 101;1984;167,0;206,0;149,5;2,0;0,0;3,0;0,0;5,0;0,0;60,0;89,0;42,0
17 101;1985;71,0;165,0;37,0;0,2;0,0;0,0;0,0;0,0;60,0;93,0;81,0

```

- 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 (:).

# Data Processing

## Step 1. Prepare input data



RR\_Stations\_METADATA



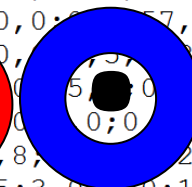
RR\_Stations

```

1 station_id;year;jan;feb;mar;apr;may;jun;jul;aug;sep;oct;nov;dec
2 101;1970;33,0;71,0;39,5;0,0;0,0;0,0;0,0;0,0;6,0;0,0;12,0
3 101;1971;72,3;45,3;9,2;2,5;0,0;0,0;0,0;0,0;193,9;114,7
4 101;1972;141,6;41,3;68,4;100,2;0,0;0,0;0,0;0,0;2,0;0,0;0,0;45,7
5 101;1973;183,5;39,0;33,5;57,0;0,0;0,0;0,0;10,0;4,0;4,0;5,1;0,0
6 101;1974;227,2;167,0;52,0;16,1;0,0;0,0;0,0;46,0;0,0;0,0;0,0;6,0
7 101;1975;86,8;109,3;140,9;0,0;0,0;0,0;0,0;0,0;0,0;0,0;0,0;117,6
8 101;1976;209,7;144,5;64,5;0,0;0,0;0,0;0,0;1,5;0,0;5,1;24,5
9 101;1977;86,5;157,6;44,5;14,5;0,0;0,0;0,0;0,0;1,5;16,0;28,6;31,0
10 101;1978;147,5;7,0;33,0;16,5;0,0;0,0;1,0;1,0;0,0;0,0;57,5;58,0
11 101;1979;157,5;14,0;88,0;0,0;0,0;0,0;0,0;0,0;0,0;0,0;123,5
12 101;1980;30,0;0,0;0,0;0,0;0,0;0,0;0,0;0,0;0,0;0,0;48,0
13 101;1981;17,5;17,2;0,0;0,0;0,0;0,0;0,0;0,0;0,0;0,0;96,3
14 101;1982;79,5;26,0;98,5;0,0;0,0;0,0;0,0;0,0;0,0;0,0;2;28,0
15 101;1983;17,0;13,4;0,0;0,0;0,0;0,0;0,0;0,0;1,5;3,0;0,0;10,0
16 101;1984;167,0;206,0;10,5;2,0;0,0;3,0;0,0;5,0;0,0;60,0;89,0;42,0
17 101;1985;71,0;165,0;37,0;0,2;0,0;0,0;0,0;0,0;0,0;60,0;93,0;81,0

```

**Decimal point**



- 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 (:).



# Data Processing

## Step 1. Prepare input data



RR\_Stations\_METADATA



RR\_Stations

```

1 station_id:year:jan:feb:mar:apr:may:jun:jul:aug:sep:oct:nov:dec
2 101:1970:33.0:71.0:39.5:0.0:0.0:0.0:0.0:0.0:6.0:0.0:12.0
3 101:1971:72.3:45.3:9.2:2.5:0.0:0.0:0.0:0.0:0.0:193.9:114.7
4 101:1972:141.6:41.3:68.4:100.2:0.0:0.0:0.0:0.0:2.0:0.0:0.0:45.7
5 101:1973:183.5:39.0:33.5:57.0:0.0:0.0:0.0:10.0:4.0:4.0:5.1:0.0
6 101:1974:227.2:167.0:52.0:16.1:0.0:0.0:0.0:46.0:0.0:0.0:0.0:6.0
7 101:1975:86.8:109.3:140.9:0.0:0.0:0.0:0.0:0.0:0.0:0.0:0.0:117.6
8 101:1976:209.7:144.5:64.5:0.0:0.0:0.0:0.0:0.0:1.5:0.0:5.1:24.5
9 101:1977:86.5:157.6:44.5:14.5:0.0:0.0:0.0:0.0:1.5:16.0:28.6:31.0
10 101:1978:147.5:7.0:33.0:16.5:0.0:0.0:1.0:1.0:0.0:0.0:57.5:58.0
11 101:1979:157.5:14.0:88.0:0.0:0.0:0.0:0.0:0.0:0.0:8.5:5.8:123.5
12 101:1980:38.0:29.0:91.0:0.0:0.0:0.0:0.0:0.0:0.0:35.0:0.0:48.0
13 101:1981:174.5:176.8:27.0:25.0:0.0:0.0:0.0:12.0:0.0:0.0:0.0:96.3
14 101:1982:79.5:26.0:98.5:0.0:0.0:0.0:0.0:0.0:0.8:63.4:0.2:28.0
15 101:1983:17.0:13.4:0.0:0.0:0.0:0.0:0.0:1.5:3.0:0.0:10.0
16 101:1984:167.0:206.0:149.5:2.0:0.0:3.0:0.0:5.0:0.0:60.0:89.0:42.0
17 101:1985:71.0:165.0:37.0:0.2:0.0:0.0:0.0:0.0:0.0:60.0:93.0:81.0

```

- 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



MME

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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |

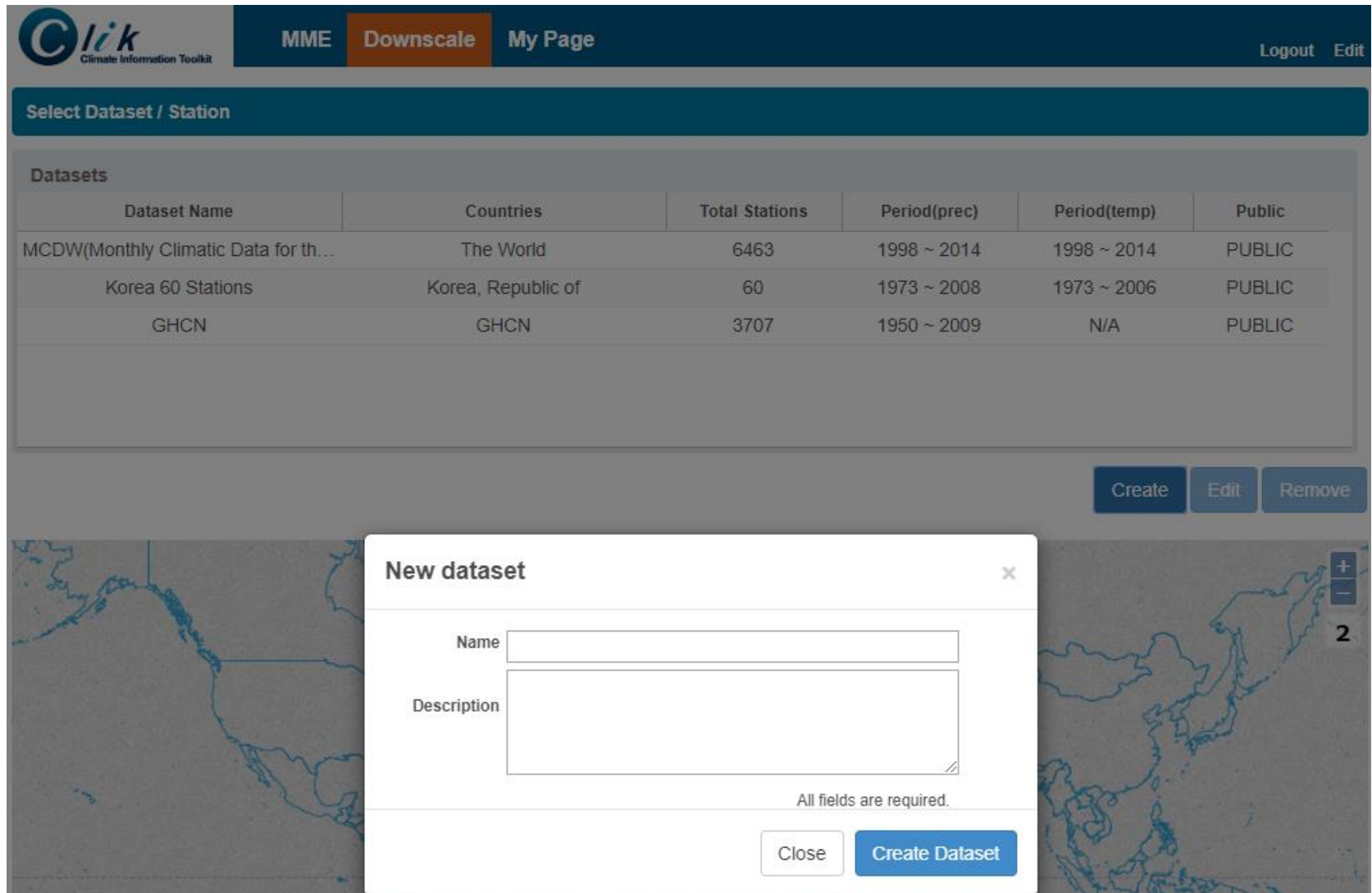
Create

Edit

Remove



# Step 2. Upload data to CLIK



The screenshot displays the CLIK (Climate Information Toolkit) web interface. The top navigation bar includes the CLIK logo, the text 'Climate Information Toolkit', and menu items 'MME', 'Downscale', and 'My Page'. On the right side of the navigation bar are 'Logout' and 'Edit' links. Below the navigation bar is a dark teal header with the text 'Select Dataset / Station'. The main content area features a table titled 'Datasets' with the following columns: 'Dataset Name', 'Countries', 'Total Stations', 'Period(prec)', 'Period(temp)', and 'Public'. The table lists three datasets: 'MCDW(Monthly Climatic Data for th...', 'Korea 60 Stations', and 'GHCN'. Below the table are three buttons: 'Create', 'Edit', and 'Remove'. A modal window titled 'New dataset' is open in the foreground, containing a 'Name' text input field, a 'Description' text area, and a 'Create Dataset' button. A note at the bottom of the modal states 'All fields are required.' and there is a 'Close' button next 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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |

**New dataset**

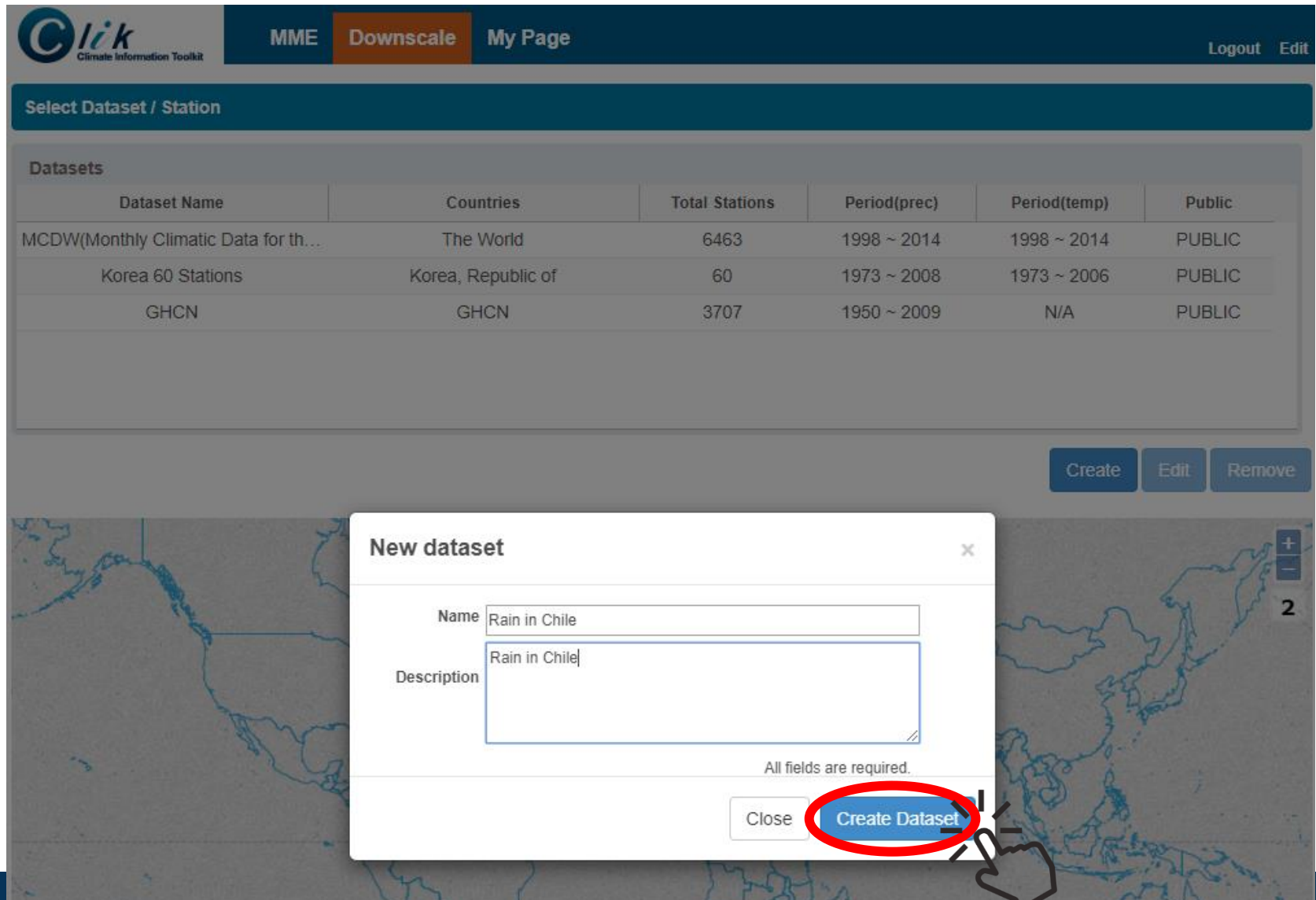
Name

Description

All fields are required.

## Data Processing

## Step 2. Upload data to CLIK



The screenshot shows the CLIK web interface. At the top, there is a navigation bar with the CLIK logo and the text 'Climate Information Toolkit'. The main navigation menu includes 'MME', 'Downscale', and 'My Page'. The 'Downscale' menu item is highlighted. In the top right corner, there are links for 'Logout' and 'Edit'.

Below the navigation bar, there is a section titled 'Select Dataset / Station'. Underneath, there is a table of 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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |

Below the table, there are three buttons: 'Create', 'Edit', and 'Remove'. A modal window titled 'New dataset' is open in the foreground. It contains two input fields: 'Name' and 'Description', both containing the text 'Rain in Chile'. Below the input fields, there is a message that says 'All fields are required.' At the bottom of the modal, there are two buttons: 'Close' and 'Create Dataset'. The 'Create Dataset' button is circled in red, and a hand icon is shown clicking it.

## Step 2. Upload data to CLIK



MME

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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| Rain in Chile                        |                    | 0              | N/A          | N/A          | downy  |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |



Create

Edit

Remove



# Data Processing

## Step 2. Upload data to CLIK



MME

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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| Rain in Chile                        |                    | 0              | N/A          | N/A          | downy  |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |

Create **Edit** Remove



## Step 2. Upload data to CLIK

Metadata

1

Observation data

2

The screenshot shows the CLIK web interface. At the top, there are navigation tabs: 'MME', 'Downscale', and 'My Page'. The 'Downscale' tab is active. On the right, there are links for 'Logout' and 'Edit'. Below the navigation, there is a header for 'Stations [ Dataset : Rain in Chile ]'. Underneath, there is a table with columns: 'Station ID', 'Country', 'NAME', 'WMO ID', 'Latitude', 'Longitude', and 'Undefined'. The table is currently empty, displaying 'No data available'. Below the table, there is a button labeled '0 entries'. To the right of the table, there are four buttons: 'Upload', 'Export', 'Insert', and 'Modify'. The 'Upload' button is circled in red, and a hand cursor is pointing at it. Below the table, there is a header for 'Data'. Underneath, there is a table with columns: 'Year', 'Variable', 'Unit', 'JAN', 'FEB', 'MAR', 'APR', 'MAY', 'JUN', 'JUL', 'AUG', 'SEP', 'OCT', 'NOV', and 'DEC'. The table is currently empty, displaying 'No data available'. Below the table, there is a button labeled 'Showing 0 to 0 of 0 entries'. To the right of the table, there are four buttons: 'Upload', 'Export', 'Insert', and 'Modify'. Below the table, there is a 'Close' button. At the bottom of the page, there is a status bar with the following text: 'Processing 0', 'Queued 0', 'Image Processor 0', and 'CPU Usage 7.26 %'.

# Step 2. Upload data to CLIK

Metadata

1

The screenshot shows the CLIK web interface. At the top, there are navigation tabs: 'MME', 'Downscale', and 'My Page'. The 'Downscale' tab is active. On the right, there are links for 'Logout' and 'Edit'. Below the navigation is a header for 'Stations [ Dataset : Rain in Chile ]'. A table with columns 'Station ID', 'Country', 'NAME', 'WMO ID', 'Latitude', 'Longitude', and 'Undefined' is shown, but it contains no data. Below the table, it says 'Showing 0 to 0 of 0 entries'. To the right of the table are buttons for 'Upload', 'Export', 'Insert', and 'Modify'. The 'Upload' button is circled in red, and a hand cursor is pointing to it. Below the table is a form for uploading metadata. It includes a 'Field separator' section with radio buttons for 'Comma(.)', 'Space()', 'Tab()', and 'Colon(:)'. There is a 'Country' dropdown menu with 'Select Country' as the placeholder. Below that is a 'Station information file (example)' section with a 'Select File...' button and an 'Upload' button. Below the form is a header for 'Data'. A table with columns 'Year', 'Variable', 'Unit', 'JAN', 'FEB', 'MAR', 'APR', 'MAY', 'JUN', 'JUL', 'AUG', 'SEP', 'OCT', 'NOV', and 'DEC' is shown, but it contains no data. Below the table, it says 'Showing 0 to 0 of 0 entries'. To the right of the table are buttons for 'Upload', 'Export', 'Insert', and 'Modify'. At the bottom center, there is a 'Close' button. At the bottom right, there is a status bar showing 'Processing 0', 'Queued 0', 'Image Processor 0', and 'CPU Usage 9.44 %'.

## Step 2. Upload data to CLIK

Metadata

1

MME Downscale My Page Logout Edit

### Stations [ Dataset : Rain in Chile ]

| Station ID        | Country | NAME | WMO ID | Latitude | Longitude | Undefined |
|-------------------|---------|------|--------|----------|-----------|-----------|
| No data available |         |      |        |          |           |           |

Showing 0 to 0 of 0 entries

Upload Export Insert Modify

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

Country

Station information file (example)  Upload

### Data

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

Showing 0 to 0 of 0 entries

Upload Export Insert Modify

Close

Processing 0 Queued 0 Image Processor 0 CPU Usage 9.44 %

# Data Processing

## Step 2. Upload data to CLIK

Metadata

1

MME Downscale My Page Logout Edit

### Stations [ Dataset : Rain in Chile ]

| Station ID        | Country | NAME | WMO ID |
|-------------------|---------|------|--------|
| No data available |         |      |        |

Showing 0 to 0 of 0 entries

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

Country: Chile

Station information file (example):  RR\_Stations\_METADATA.txt

```
1 name:station_id:wmo_id:latitude:longitude:undefined:public
2 0Visviri:101:-99:-17.59:-69.48:-99:TRUE
3 1Putre_agro:102:-99:-18.26:-69.61:-99:TRUE
4 2Arica:103:-99:-18.36:-70.34:-99:TRUE
5 3Iquique:104:-99:-20.55:-70.18:-99:TRUE
6 4Calama:105:-99:-22.50:-68.90:-99:TRUE
7 5Antofagasta:106:-99:-23.45:-70.44:-99:TRUE
8 6Copiapo_agro:107:-99:-27.35:-70.41:-99:TRUE
9 7DesiertoAtacama:108:-99:-27.26:-70.77:-99:TRUE
10 8LaSerena:109:-99:-29.92:-71.20:-99:TRUE
11 9Combarbala_agro:110:-99:-31.19:-71.00:-99:TRUE
12 11IslaPascua:111:-99:-27.16:-109.43:-99:TRUE
13 12JuanFernandez:112:-99:-33.64:-78.83:-99:TRUE
14 13LlayLlay_agro:201:-99:-32.90:-70.95:-99:TRUE
15 14Lagunitas:202:-99:-33.05:-70.25:-99:TRUE
16 16Valparaiso_PuntaA:203:-99:-33.02:-71.65:-99:TRUE
17 17StoDomingo:204:-99:-33.66:-71.61:-99:TRUE
```

### Data

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

Showing 0 to 0 of 0 entries

Processing 0 Queued 0 Image Processor 0 CPU Usage 9.72 %

# Data Processing

## Step 2. Upload data to CLIK

Metadata

1

The screenshot shows the CLIK web interface. At the top, there are navigation tabs: 'MME', 'Downscale', and 'My Page'. The main content area is titled 'Stations [ Dataset : Rain in Chile ]'. It contains a table with the following columns: Station ID, Country, NAME, WMO ID, Latitude, Longitude, and Undefined. The table lists 5 stations (ID 101-105) from Chile with their respective names and coordinates. Below the table, it says 'Showing 1 to 33 of 33 entries'. There are buttons for 'Upload', 'Export', 'Insert', and 'Modify'. A dialog box titled 'Information' is open, displaying the message 'Success: Station information file uploaded.' and a 'Close' button circled in red. Below the dialog, there are input fields for 'Field separator', 'Country', and 'Station information file (example)'. At the bottom, there is a 'Data' section with a table header for months (JAN to DEC) and a note 'No data available'.

| Station ID | Country | NAME        | WMO ID | Latitude | Longitude | Undefined |
|------------|---------|-------------|--------|----------|-----------|-----------|
| 101        | Chile   | 0Visviri    | -99    | -17.59   | -69.48    | -99       |
| 102        | Chile   | 1Putre_agro | -99    | -18.26   | -69.61    | -99       |
| 103        | Chile   | 2Arica      | -99    | -18.36   | -70.34    | -99       |
| 104        | Chile   | 3Iquique    | -99    | -20.55   | -70.18    | -99       |
| 105        | Chile   | 4Calama     | -99    | -22.5    | -68.9     | -99       |

# Data Processing

## Step 2. Upload data to CLIK

### Metadata

1

**clik** Climate Information Toolkit **MME Downscale My Page** Logout Edit

**Stations [ Dataset : Rain in Chile ]**

| Station ID | Country | NAME        | WMO ID | Latitude | Longitude | Undefined |
|------------|---------|-------------|--------|----------|-----------|-----------|
| 101        | Chile   | 0Visviri    | -99    | -17.59   | -69.48    | -99       |
| 102        | Chile   | 1Putre_agro | -99    | -18.26   | -69.61    | -99       |
| 103        | Chile   | 2Arica      | -99    | -18.36   | -70.34    | -99       |
| 104        | Chile   | 3Iquique    | -99    | -20.55   | -70.18    | -99       |
| 105        | Chile   | 4Calama     | -99    | -22.5    | -68.9     | -99       |

Showing 1 to 33 of 33 entries

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

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

Country:

Station information file (example):  RR\_Stations\_METADATA.txt [Upload](#)

### Observation data

2

**Data**

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

No data available

Showing 0 to 0 of 0 entries

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

- ✓ Field separator:  Comma(,)  Space()  Tab()  Colon(:)
- ✓ Variable:  Precipitation  Temperature
- ✓ Unit:  mm/month  mm/day  others:
- ✓ Country:
- ✓ Data file (example):  [Upload](#)

[Close](#)

# Data Processing

## Step 2. Upload data to CLIK

Metadata

1

Stations [ Dataset : Rain in Chile ]

| Station ID | Country | NAME        | WMO ID | Latitude | Longitude | Undefined |
|------------|---------|-------------|--------|----------|-----------|-----------|
| 101        | Chile   | 0Visviri    | -99    | -17.59   | -69.48    | -99       |
| 102        | Chile   | 1Putre_agro | -99    | -18.26   | -69.61    | -99       |
| 103        | Chile   | 2Arica      | -99    | -18.36   | -70.34    | -99       |
| 104        | Chile   | 3Iquique    | -99    | -20.55   | -70.18    | -99       |
| 105        | Chile   | 4Calama     | -99    | -22.5    | -68.9     | -99       |

Showing 1 to 33 of 33 entries

Upload Export Insert Modify

Observation data

2

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

Country:

Station information file (example):  RR\_Stations\_METADATA

**Data**

| Year | Variable | Unit | JAN | FEB | MAR | APR |
|------|----------|------|-----|-----|-----|-----|
|      |          |      |     |     |     | No  |

Showing 0 to 0 of 0 entries

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

Variable:  Precipitation  Temperature

Unit:  mm/month  mm/day  others:

Country:

Data file (example):  RR\_Stations.txt

Close

```

1 station_id:year:jan:feb:mar:apr:may:jun:jul:aug:sep:oct:nov:dec
2 101:1970:33.0:71.0:39.5:0.0:0.0:0.0:0.0:0.0:6.0:0.0:12.0
3 101:1971:72.3:45.3:9.2:2.5:0.0:0.0:0.0:0.0:0.0:193.9:114.7
4 101:1972:141.6:41.3:68.4:100.2:0.0:0.0:0.0:0.0:2.0:0.0:0.0:45.7
5 101:1973:183.5:39.0:33.5:57.0:0.0:0.0:10.0:4.0:5.1:0.0
6 101:1974:227.2:167.0:52.0:16.1:0.0:0.0:0.0:46.0:0.0:0.0:6.0
7 101:1975:86.8:109.3:140.9:0.0:0.0:0.0:0.0:0.0:0.0:0.0:117.6
8 101:1976:209.7:144.5:64.5:0.0:0.0:0.0:0.0:1.5:0.0:5.1:24.5
9 101:1977:86.5:157.6:44.5:14.5:0.0:0.0:0.0:1.5:16.0:28.6:31.0
10 101:1978:147.5:7.0:33.0:16.5:0.0:0.0:1.0:1.0:0.0:0.0:57.5:58.0
11 101:1979:157.5:14.0:88.0:0.0:0.0:0.0:0.0:0.0:0.0:8.5:5.8:123.5
12 101:1980:38.0:29.0:91.0:0.0:0.0:0.0:0.0:0.0:0.0:35.0:0.0:48.0
13 101:1981:174.5:176.8:27.0:25.0:0.0:0.0:0.0:12.0:0.0:0.0:96.3
14 101:1982:79.5:26.0:98.5:0.0:0.0:0.0:0.0:0.8:63.4:0.2:28.0
15 101:1983:17.0:13.4:0.0:0.0:0.0:0.0:0.0:1.5:3.0:0.0:10.0
16 101:1984:167.0:206.0:149.5:2.0:0.0:3.0:0.0:5.0:0.0:60.0:89.0:42.0
17 101:1985:71.0:165.0:37.0:0.2:0.0:0.0:0.0:0.0:60.0:93.0:81.0
    
```

# Data Processing

## Step 2. Upload data to CLIK

Metadata

1

| Station ID | Country | NAME        | WMO ID | Latitude | Longitude | Undefined |
|------------|---------|-------------|--------|----------|-----------|-----------|
| 101        | Chile   | 0Visviri    | -99    | -17.59   | -69.48    | -99       |
| 102        | Chile   | 1Putre_agro | -99    | -18.26   | -69.61    | -99       |
| 103        | Chile   | 2Arica      | -99    | -18.36   | -70.34    | -99       |
| 104        | Chile   | 3Iquique    | -99    | -20.55   | -70.18    | -99       |
| 105        | Chile   | 4Calama     | -99    | -22.5    | -68.9     | -99       |

Showing 1 to 33 of 33 entries

Upload Export Insert Modify

Field separator  
Country  
Station information file (example)

### Information

Success : Observed data file uploaded.

Close

Observation data

2

**Data**

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

No data available

Showing 0 to 0 of 0 entries

Upload Export Insert Modify

- ✓ Field separator  Comma(,)  Space()  Tab()  Colon(:)
- ✓ Variable  Precipitation  Temperature
- ✓ Unit  mm/month  mm/day  others:
- ✓ Country
- ✓ Data file (example)

Close

# Data Processing

## Step 2. Upload data to CLIK

Metadata

1

**clik** Climate Information Toolkit MME Downscale My Page Logout Edit

**Stations [ Dataset : Rain in Chile ]**

| Station ID | Country | NAME        | WMO ID | Latitude | Longitude | Undefined |
|------------|---------|-------------|--------|----------|-----------|-----------|
| 101        | Chile   | 0Visviri    | -99    | -17.59   | -69.48    | -99       |
| 102        | Chile   | 1Putre_agro | -99    | -18.26   | -69.61    | -99       |
| 103        | Chile   | 2Arica      | -99    | -18.36   | -70.34    | -99       |
| 104        | Chile   | 3Iquique    | -99    | -20.55   | -70.18    | -99       |
| 105        | Chile   | 4Calama     | -99    | -22.5    | -68.9     | -99       |

Showing 1 to 33 of 33 entries

Upload Export Insert Modify

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

Country

Station information file (example)  RR\_Stations\_METADATA.txt Upload

Observation data

2

**Data [ Station ID : 101 ]**

| Year | Variable | Unit     | JAN   | FEB  | MAR  | APR   | MAY | JUN | JUL | AUG | SEP | OCT   | NOV   | DEC  |
|------|----------|----------|-------|------|------|-------|-----|-----|-----|-----|-----|-------|-------|------|
| 1970 | PREC     | mm/month | 33    | 71   | 39.5 | 0     | 0   | 0   | 0   | 0   | 0   | 6     | 0     | 12   |
| 1971 | PREC     | mm/month | 72.3  | 45.3 | 9.2  | 2.5   | 0   | 0   | 0   | 0   | 0   | 193.9 | 114.7 |      |
| 1972 | PREC     | mm/month | 141.6 | 41.3 | 68.4 | 100.2 | 0   | 0   | 0   | 0   | 2   | 0     | 0     | 45.7 |
| 1973 | PREC     | mm/month | 183.5 | 39   | 33.5 | 57    | 0   | 0   | 0   | 10  | 4   | 4     | 5.1   | 0    |
| 1974 | PREC     | mm/month | 227.2 | 167  | 52   | 16.1  | 0   | 0   | 0   | 46  | 0   | 0     | 0     | 6    |

Showing 1 to 50 of 50 entries

Upload Export Insert Modify

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

Variable  Precipitation  Temperature

Unit  mm/month  mm/day  others:

# Data Processing

## Step 2. Upload data to CLIK

Metadata

1

**clik** Climate Information Toolkit **MME Downscale My Page** Logout Edit

**Stations [ Dataset : Rain in Chile ]**

| Station ID | Country | NAME        | WMO ID | Latitude | Longitude | Undefined |
|------------|---------|-------------|--------|----------|-----------|-----------|
| 101        | Chile   | 0Visviri    | -99    | -17.59   | -69.48    | -99       |
| 102        | Chile   | 1Putre_agro | -99    | -18.26   | -69.61    | -99       |
| 103        | Chile   | 2Arica      | -99    | -18.36   | -70.34    | -99       |
| 104        | Chile   | 3Iquique    | -99    | -20.55   | -70.18    | -99       |
| 105        | Chile   | 4Calama     | -99    | -22.5    | -68.9     | -99       |

Showing 1 to 33 of 33 entries

Upload Export Insert Modify

Observation data

2

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

Country

Station information file (example)  RR\_Stations\_METADATA.txt Upload

**Data [ Station ID : 105 ]**

| Year | Variable | Unit     | JAN | FEB  | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|------|----------|----------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1970 | PREC     | mm/month | 0   | 0.8  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 1971 | PREC     | mm/month | 0   | 0    | 0   | 1.5 | 0   | 0.3 | 0   | 0   | 0   | 0   | 0   | 0   |
| 1972 | PREC     | mm/month | 6.8 | 19.6 | 0   | 1.2 | 0   | 0   | 0   | 0   | 2.9 | 2.5 | 0   | 0   |
| 1973 | PREC     | mm/month | 0   | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 1974 | PREC     | mm/month | 0   | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

Showing 1 to 50 of 50 entries

Upload Export Insert Modify

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

Variable  Precipitation  Temperature

Unit  mm/month  mm/day  others:

# Step 2. Upload data to CLIK



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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| Rain in Chile                        | Chile              | 33             | 1970 ~ 2019  | N/A          | downy  |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |

Create Edit Remove



# Data Processing

## Step 2. Upload data to CLIK



MME

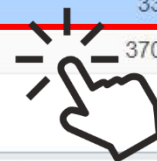
Downscale

My Page

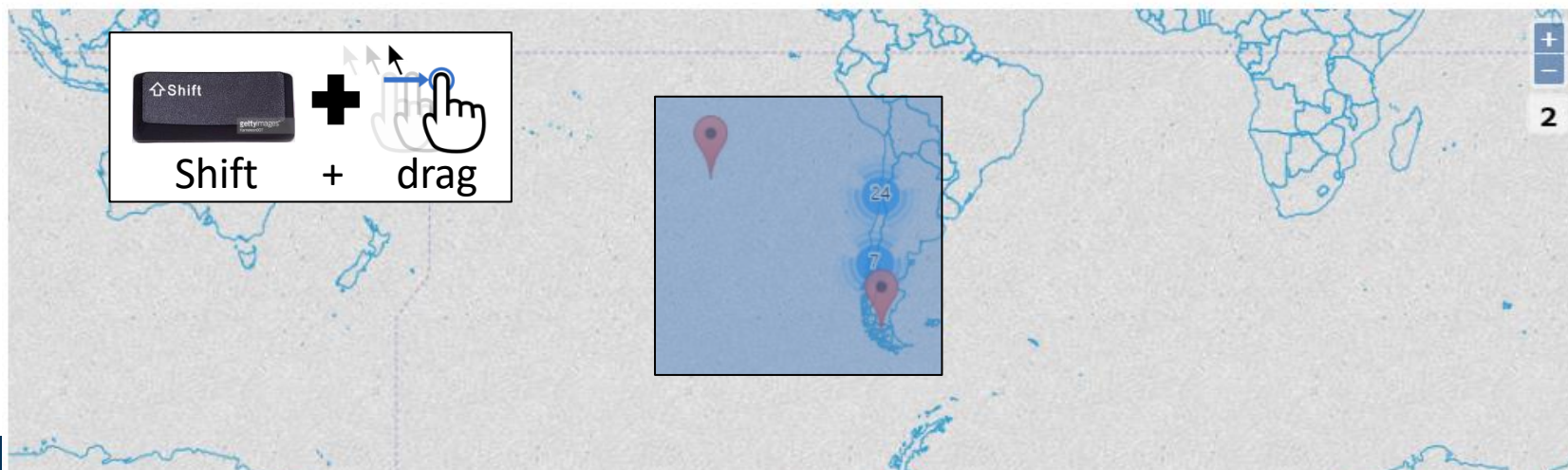
Logout Edit

### 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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| Rain in Chile                        | Chile              | 33             | 1970 ~ 2019  | N/A          | downy  |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |



Create Edit Remove



# Data Processing

## Step 2. Upload data to CLIK

The screenshot shows the CLIK web interface. At the top, there are navigation tabs: MME, Downscale, and My Page. The main content area is titled "Select Dataset / Station". It features a table of datasets and a map of South America with a highlighted region in Chile. Below the map, there is a "Stations (33)" table listing specific weather stations.

**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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| Rain in Chile                        | Chile              | 33             | 1970 ~ 2019  | N/A          | downy  |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |


Map coordinates: Lat: -56.944974 to -8.407168, Lon: -123.222656 to -42.714844, Area: 23563210.92 sq.mi.

**Stations (33)**

| Station ID | Name        | Precipitation    | Temperature |
|------------|-------------|------------------|-------------|
| 101        | 0Visviri    | 1970/1 ~ 2019/12 | N/A         |
| 102        | 1Putre_agro | 1970/1 ~ 2019/12 | N/A         |
| 103        | 2Arica      | 1970/1 ~ 2019/12 | N/A         |
| 104        | 3Iquique    | 1970/1 ~ 2019/12 | N/A         |
| 105        | 4Calama     | 1970/1 ~ 2019/12 | N/A         |

## Step 2. Upload data to CLIK

### Example error 1



| 1 | station_id | year | jan  | feb,  | mar   | apr   | may   | jun   | jul   | aug  | sep   | oct   | nov   | dec  |
|---|------------|------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| 2 | 159        | 1973 | 84.7 | 43.7  | 13.1  | 126.9 | 329.3 | 72.2  | 53.3  | 17.2 | 239.2 | 119.5 | 41.1  | 2.9  |
| 3 | 159        | 1974 | 43   | 41.8  | 90.9  | 234.5 | 371.3 | 231.5 | 442.4 | 75.4 | 16.6  | 108.2 | 14.3  | 28.1 |
| 4 | 159        | 1975 | 31.1 | 17.9  | 93.3  | 243.9 | 180.5 | 135.4 | 253.8 | 79.1 | 270.8 | 57.2  | 130.2 | 42.9 |
| 5 | 159        | 1976 | 0.7  | 103.1 | 68.5  | 220.5 | 93.6  | 100.8 | 95    | 175  | 58.7  | 68.8  | 31.9  | 35.3 |
| 6 | 159        | 1977 | 3.9  | 0     | 106.9 | 275.2 | 124.1 | 169.1 | 112.4 | 66   | 97.6  | 23.5  | 129.4 | 34.1 |

#### Observed Data of station 159 on Korea, Republic of

| Year ▲ | Variable ⇅ | Unit ⇅   | JAN ⇅ | FEB ⇅ | MAR ⇅ | APR ⇅ | MAY ⇅ | JUN ⇅ | JUL ⇅ | AUG ⇅ | SEP ⇅ | OCT ⇅ | NOV ⇅ | DEC ⇅ |
|--------|------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1973   | PREC       | mm/month | 84.7  |       | 13.1  | 126.9 | 329.3 | 72.2  | 53.3  | 17.2  | 239.2 | 119.5 | 41.1  | 2.9   |
| 1974   | PREC       | mm/month | 43    |       | 90.9  | 234.5 | 371.3 | 231.5 | 442.4 | 75.4  | 16.6  | 108.2 | 14.3  | 28.1  |
| 1975   | PREC       | mm/month | 31.1  |       | 93.3  | 243.9 | 180.5 | 135.4 | 253.8 | 79.1  | 270.8 | 57.2  | 130.2 | 42.9  |
| 1976   | PREC       | mm/month | 0.7   |       | 68.5  | 220.5 | 93.6  | 100.8 | 95    | 175   | 58.7  | 68.8  | 31.9  | 35.3  |
| 1977   | PREC       | mm/month | 3.9   |       | 106.9 | 275.2 | 124.1 | 169.1 | 112.4 | 66    | 97.6  | 23.5  | 129.4 | 34.1  |

## Data Processing

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## Example error 2

| 1 | station_id | year | jan  | feb   | mar   | apr   | may   | jun   | Jul   | aug  | sep   | oct   | nov   | dec  |
|---|------------|------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| 2 | 159        | 1973 | 84.7 | 43.7  | 13.1  | 126.9 | -     | -999  | 53.3  | 17.2 | 239.2 | 119.5 | 41.1  | 2.9  |
| 3 | 159        | 1974 | 43   | 41.8  | 90.9  | 234.5 | 371.3 | 231.5 | 442.4 | 75.4 | 16.6  | 108.2 | 14.3  | 28.1 |
| 4 | 159        | 1975 | 31.1 | 17.9  | 93.3  | 243.9 | 180.5 | 135.4 | 253.8 | 79.1 | 270.8 | 57.2  | 130.2 | 42.9 |
| 5 | 159        | 1976 | 0.7  | 103.1 | 68.5  | 220.5 | 93.6  | 100.8 | 95    | 175  | 58.7  | 68.8  | 31.9  | 35.3 |
| 6 | 159        | 1977 | 3.9  | 0     | 106.9 | 275.2 | 124.1 | 169.1 | 112.4 | 66   | 97.6  | 23.5  | 129.4 | 34.1 |

Observed Data of station 159 on Kor

| Year | Variable | Unit     | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   | OCT   | NOV   | DEC  |
|------|----------|----------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| 1973 | PREC     | mm/month | 84.7 | 43.7  | 13.1  | 126.9 | -     | -999  | 53.3  | 17.2 | 239.2 | 119.5 | 41.1  | 2.9  |
| 1974 | PREC     | mm/month | 43   | 41.8  | 90.9  | 234.5 | 371.3 | 231.5 | 442.4 | 75.4 | 16.6  | 108.2 | 14.3  | 28.1 |
| 1975 | PREC     | mm/month | 31.1 | 17.9  | 93.3  | 243.9 | 180.5 | 135.4 | 253.8 | 79.1 | 270.8 | 57.2  | 130.2 | 42.9 |
| 1976 | PREC     | mm/month | 0.7  | 103.1 | 68.5  | 220.5 | 93.6  | 100.8 | 95    | 175  | 58.7  | 68.8  | 31.9  | 35.3 |
| 1977 | PREC     | mm/month | 3.9  | 0     | 106.9 | 275.2 | 124.1 | 169.1 | 112.4 | 66   | 97.6  | 23.5  | 129.4 | 34.1 |

**Information** ×

Failed Observed Data Upload: ### Error updating database. Cause:  
 java.sql.SQLException: Data truncated for column 'may' 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 'may' at row 2

Close

Exercise

# Upload your station data!

1. Click on "Create" button.

The screenshot shows the 'Select Dataset / Station' page with a table of datasets. The 'Create' button at the bottom is circled in red.

| Dataset Name                         | Countries          | Total Stations | Period(prec) | Period(temp) | Public |
|--------------------------------------|--------------------|----------------|--------------|--------------|--------|
| MCDW(Monthly Climatic Data for th... | The World          | 6463           | 1998 ~ 2014  | 1998 ~ 2014  | PUBLIC |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| GHCN                                 | GHCN               | 3707           | 1950 ~ 2009  | N/A          | PUBLIC |

3. Click on "Edit" button.

The screenshot shows the 'Select Dataset / Station' page. The row for 'Korea 1 station' is highlighted with a red box, and the 'Edit' button at the bottom is circled in red.

| 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 |
| Korea 60 Stations                    | Korea, Republic of | 60             | 1973 ~ 2008  | 1973 ~ 2006  | PUBLIC |
| Korea 1 station                      |                    | 0              | N/A          | N/A          | downy  |

2. Describe the dataset.

The screenshot shows the 'New dataset' dialog box with the following fields:

- Name: Korea 1 station
- Description: Korea 1 station

The 'Create Dataset' button is highlighted with a red circle and the number '2'.

The screenshot shows the 'Stations [Dataset : Korea 1 station]' page. The 'Metadata' section is highlighted with a red box and the number '1', and the 'Observation data' section is highlighted with a red box and the number '2'.

4. Upload two data files; metadata and observation data.



**Thank you!**