

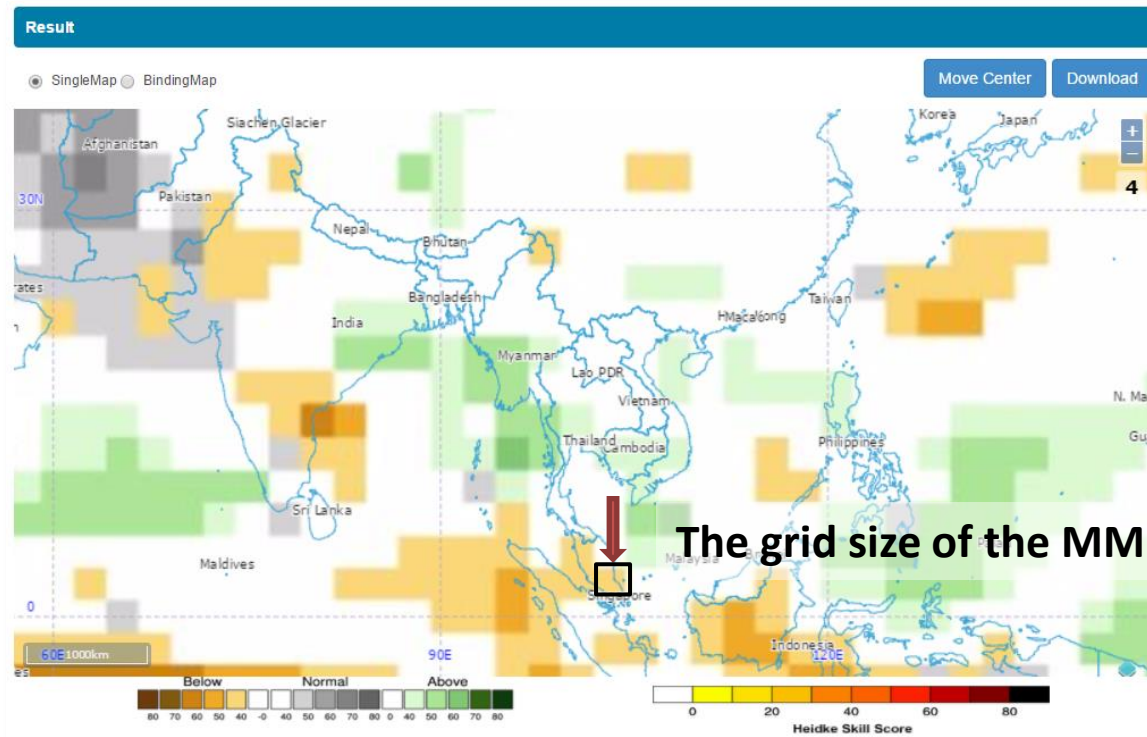
CLIK hands-on (part III):

Data Processing for CLIK

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

Daeun Jeong
17 October 2018

Dynamical Forecast



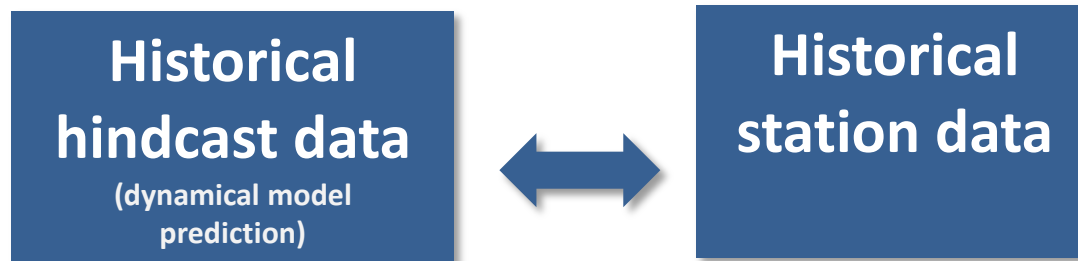
The grid size of the MME is 2.5° by 2.5° .

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.

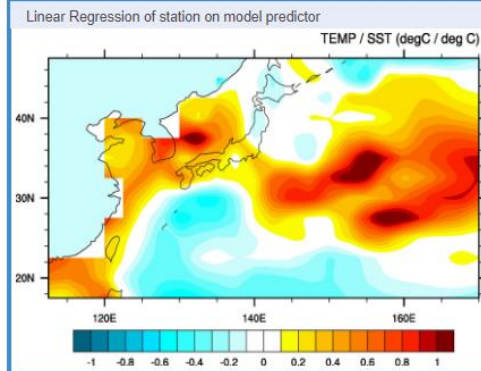
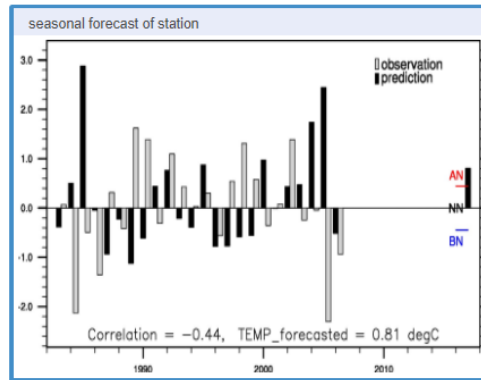
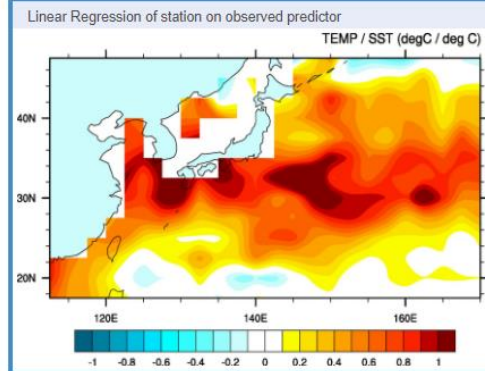


Downscaling by CLIK

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

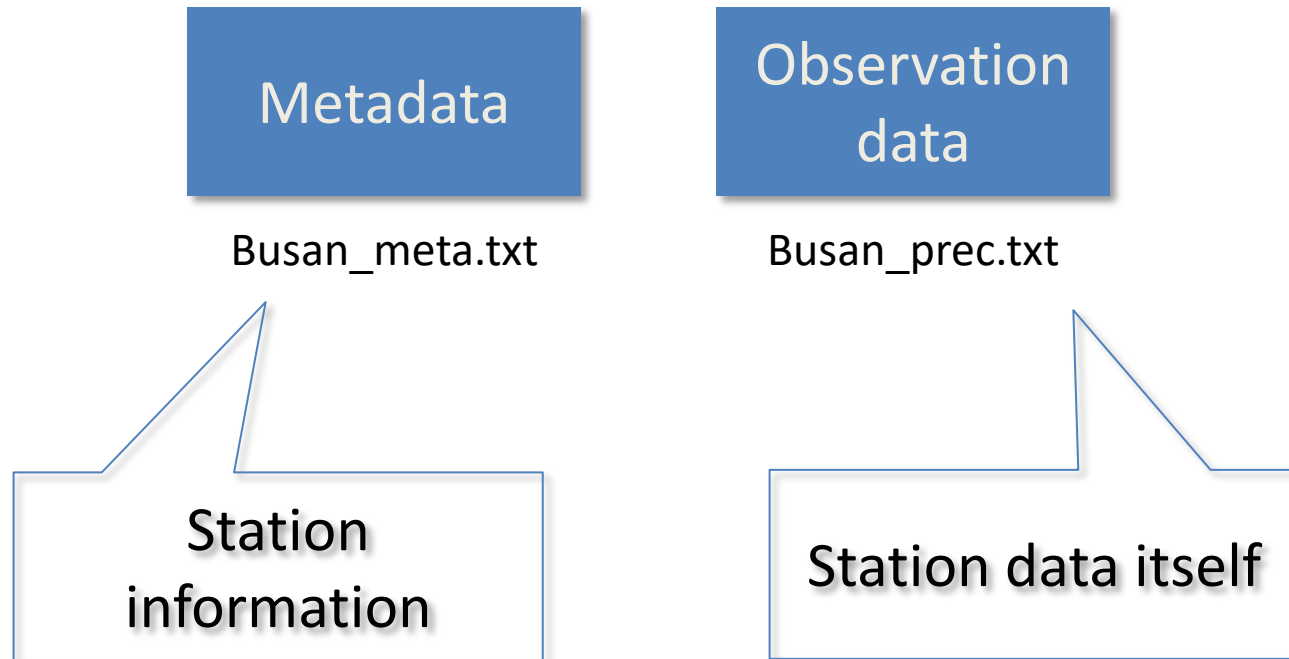
Data processing and downscaling!

Data Processing

✓ **Target station: Busan**



Step 1. Prepare input data



Step 1. Prepare input data



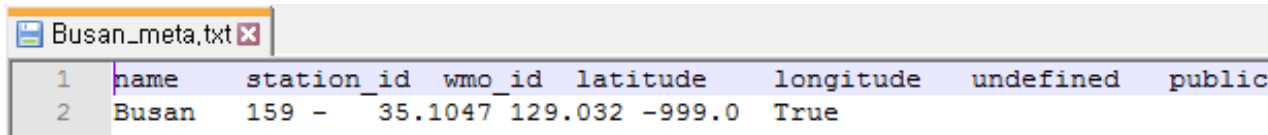
Metadata

Busan_meta.txt



Observation
data

Busan_prec.txt



```
Busan_meta.txt x
1 name station_id wmo_id latitude longitude undefined public
2 Busan 159 - 35.1047 129.032 -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

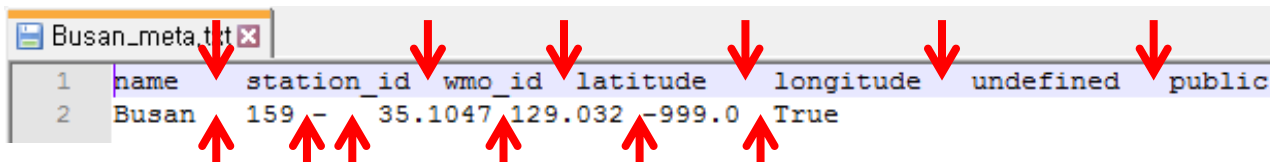
Step 1. Prepare input data

Metadata

Busan_meta.txt

Observation
data

Busan_prec.txt



A screenshot of a Notepad window titled 'Busan_meta.txt'. The window contains two lines of text. The first line is a header: 'name station_id wmo_id latitude longitude undefined public'. The second line is a data row: 'Busan 159 - 35.1047 129.032 -999.0 True'. Red arrows point to the tab characters between the columns in both lines. The word 'tab' is written in large red letters below the screenshot.

1	name	station_id	wmo_id	latitude	longitude	undefined	public
2	Busan	159	-	35.1047	129.032	-999.0	True

tab

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

Data Processing

Step 1. Prepare input data



Busan_meta.txt



Busan_prec.txt

```
Busan_prec.txt
1 station_id year jan feb mar apr may jun jul aug sep oct nov dec
2 159 1960 3.5 34.6 115.9 103.7 213 61.5 124.8 45.6 383.9 46.5 56.9 8.7
3 159 1961 22.7 21 153.8 134.1 179.9 132.8 338.4 320.7 159.2 145.6 186.1 27.5
4 159 1962 2.8 16.3 23.3 150.3 45.2 137.4 271.1 292.5 176.7 54.1 48.2 17.5
5 159 1963 3.4 3.7 39.4 199.1 242.1 937.5 363 172 78.2 65.2 20.1 19.3
6 159 1964 33.3 49 54.2 312.2 148.5 174.6 67.1 28.3 236.6 14.3 12.4 0.1
7 159 1965 24.4 25.8 40.2 113.5 99.9 50.2 472.6 359.4 61.9 43.1 168.4 39
8 159 1966 18.1 65.2 172.4 125.5 129.9 108 69 42.4 93 11.3
9 159 1967 28.7 40.5 92.2 135.3 210 52.4 110.5 28.4 80.9 6
10 159 1968 7.7 14.4 79 51.3 18.3 221.1 347.6 94.7 104.5 47.2 40.6
11 159 1969 46.8 60.7 28 204.6 112.5 132.3 247.2 437.1 416.8 11.2 54.9 48.3
12 159 1970 7.6 47.4 21.2 136.1 230.5 327.1 572.2 300.9 387.7 58.2 22.1 27.1
13 159 1971 31.8 48.2 75 59.9 100.9 297.1 148.6 238.5 58.5 17 3.3 8.5
14 159 1972 91.6 44.4 219.5 155.1 182.6 158.7 361.2 388 354.3 47.2 156.2 36.7
15 159 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
16 159 1974 43 41.8 90.9 234.5 371.3 231.5 442.4 75.4 16.6 108.2 14.3 28.1
17 159 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
```

space

- 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

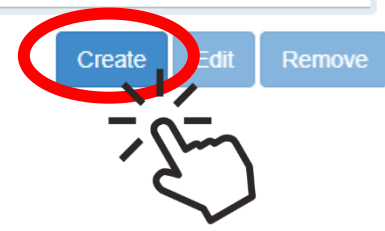
My Page

Logout Edit

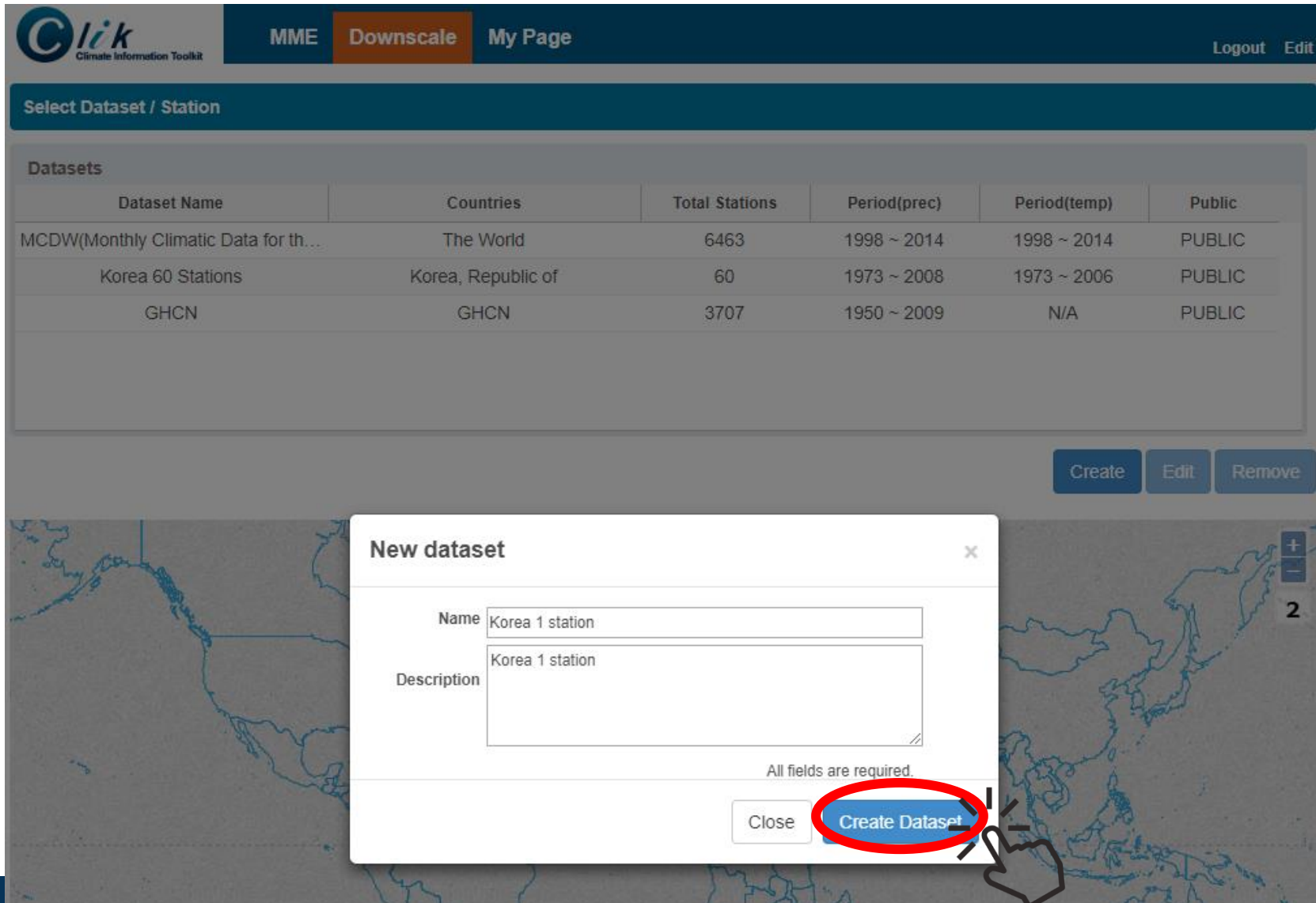
Select Dataset / Station

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



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, 'MME', 'Downscale', and 'My Page' tabs, and 'Logout' and 'Edit' links. Below this is a 'Select Dataset / Station' section. A table lists existing 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 are 'Create', 'Edit', and 'Remove' buttons. A 'New dataset' dialog box is open, showing a form with the following fields:

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

At the bottom of the dialog box, there is a note: 'All fields are required.' and two buttons: 'Close' and 'Create Dataset'. The 'Create Dataset' button is circled in red, and a hand icon is pointing to 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
Korea 1 station		0	N/A	N/A	apcc
GHCN	GHCN	3707	1950 ~ 2009	N/A	PUBLIC



Create Edit Remove

Step 2. Upload data to CLIK



MME

Downscale

My Page

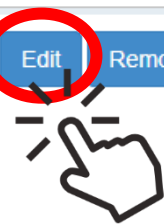
Logout Edit

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
Korea 1 station		0	N/A	N/A	apcc
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 : Korea 1 station]'. Underneath, a table header lists columns: 'Station ID', 'Country', 'NAME', 'WMO ID', 'Latitude', 'Longitude', and 'Undefined'. The table content is empty, displaying 'No data available'. Below the table, there is a text label '0 entries' and a set of buttons: 'Upload', 'Export', 'Insert', and 'Modify'. The 'Upload' button is circled in red, and a hand cursor is pointing at it. Below this is a header for 'Data'. Underneath, a table header lists columns: 'Year', 'Variable', 'Unit', 'JAN', 'FEB', 'MAR', 'APR', 'MAY', 'JUN', 'JUL', 'AUG', 'SEP', 'OCT', 'NOV', and 'DEC'. The table content is empty, displaying 'No data available'. Below the table, there is a text label 'Showing 0 to 0 of 0 entries' and another set of buttons: 'Upload', 'Export', 'Insert', and 'Modify'. At the bottom center, there is a 'Close' button.

Step 2. Upload data to CLIK

Metadata

1

MME Downscale My Page Logout Edit

Stations [Dataset : Korea 1 station]

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

Step 2. Upload data to CLIK

Metadata

1

MME Downscale My Page Logout Edit

Stations [Dataset : Korea 1 station]

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) Busan_meta.txt

```
Busan_meta.txt
1 name station_id wmo_id latitude longitude undefined public
2 Busan 159 - 35.1047 129.032 -999.0 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

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: "MME", "Downscale", and "My Page". The user is logged in, as indicated by "Logout" and "Edit" links. The main heading is "Stations [Dataset : Korea 1 station]". Below this is a table with columns: Station ID, Country, NAME, WMO ID, Latitude, Longitude, and Undefined. The table contains one row with the following data: Station ID: 159, Country: Korea, Republic of, NAME: Busan, WMO ID: -, Latitude: 35.1047, Longitude: 129.032, Undefined: -999. Below the table, it says "Showing 1 to 1 of 1 entries". There are four buttons: "Upload", "Export", "Insert", and "Modify". Below the buttons is a form for uploading station information. It includes a "Field separator" section with radio buttons for "Comma(,)", "Space()", "Tab()", and "Colon(:)". The "Tab()" option is selected. There is a "Country" dropdown menu set to "Select Country". Below that is a "Station information file (example)" section with a "Select File..." button and a text input field containing "Busan_meta.txt". An "Upload" button is next to the text input. A white "Information" dialog box is overlaid on the form, containing the text "Success: Station information file uploaded." and a "Close" button. A hand cursor is pointing at the "Close" button in the dialog. The "Close" button in the dialog is circled in red. At the bottom of the dialog, there is a "Close" button. The background interface is dimmed.

Station ID	Country	NAME	WMO ID	Latitude	Longitude	Undefined
159	Korea, Republic of	Busan	-	35.1047	129.032	-999

Showing 1 to 1 of 1 entries

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

Country:

Station information file (example):

Information

Success: Station information file uploaded.

Close

Step 2. Upload data to CLIK

Metadata

1

MME Downscale My Page Logout Edit

Stations [Dataset : Korea 1 station]

Station ID	Country	NAME	WMO ID	Latitude	Longitude	Undefined
159	Korea, Republic of	Busan	-	35.1047	129.032	-999

Showing 1 to 1 of 1 entries

Upload Export Insert Modify

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

Country

Station information file (example) Busan_meta.txt

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

Step 2. Upload data to CLIK

Metadata

1

MME Downscale My Page Logout Edit

Stations [Dataset : Korea 1 station]

Station ID	Country	NAME	WMO ID	Latitude	Longitude	Undefined
159	Korea, Republic of	Busan	-	35.1047	129.032	-999

Showing 1 to 1 of 1 entries

Upload Export Insert Modify

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

Country

Station information file (example) Busan_meta.txt

2

Observation data

Data [Station ID : 159]

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

Step 2. Upload data to CLIK

Metadata

1

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

Stations [Dataset : Korea 1 station]

Station ID	Country	NAME	WMO ID	Latitude	Longitude	Undefined
159	Korea, Republic of	Busan	-	35.1047	129.032	-999

Showing 1 to 1 of 1 entries

Upload Export Insert Modify

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

Country

Station information file (example) Busan_meta.txt

Data [Station ID : 159]

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

Observation data

2

Data Processing

Step 2. Upload data to CLIK

Metadata

1

Stations [Dataset : Korea 1 station]

Station ID	Country	NAME	WMO ID	Latitude	Longitude	Undefined
159	Korea, Republic of	Busan	-	35.1047	129.032	-999

Showing 1 to 1 of 1 entries

Upload Export Insert Modify

Field separator: Comma(,) Space() Tab(`\t`) Colon(:)

Country:

Station information file (example): Busan_meta.txt

Data [Station ID : 159]

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

Observation data

2

Field separator: Comma(,) Space() Tab(`\t`) Colon(:)

Variable: Precipitation Temperature

Unit: mm/month mm/day others:

Country:

Data file (example): Busan_prec.txt

Data [Station ID : 159]

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

```

Busan_prec.txt
station_id year jan feb mar apr may jun jul aug sep oct nov dec
2 159 1960 3.5 34.6 115.9 103.7 213 61.5 124.8 45.6 383.9 46.5 56.9 8.7
3 159 1961 22.7 21 153.8 134.1 179.9 132.8 338.4 320.7 159.2 145.6 186.1 27.5
4 159 1962 2.8 16.3 23.3 150.3 45.2 137.4 271.1 292.5 176.7 54.1 48.2 17.5
5 159 1963 3.4 3.7 39.4 199.1 242.1 937.5 363 172 78.2 65.2 20.1 19.3
6 159 1964 33.3 49 94.2 312.2 148.5 374.6 87.1 28.3 236.6 14.3 12.4 0.1
7 159 1965 24.4 25.8 40.2 113.5 99.9 50.2 472.6 359.4 61.9 43.1 168.4 39
8 159 1966 18.1 65.2 172.4 105.2 125 122.5 129.9 108 69 42.4 93 11.3
9 159 1967 28.7 40.5 92.2 143.8 58 185.5 210 52.4 110.5 28.4 80.9 6
10 159 1968 7.7 14.4 79 51.3 135.3 18.3 221.1 347.6 94.7 104.5 47.2 40.6
11 159 1969 46.8 60.7 28 204.6 112.5 132.3 247.2 437.1 416.8 11.2 54.9 48.3
12 159 1970 7.6 47.4 21.2 136.1 230.5 327.1 572.2 300.9 387.7 58.2 22.1 27.1
13 159 1971 31.8 48.2 75 59.9 100.9 297.1 148.6 238.5 58.5 17 3.3 8.5
14 159 1972 91.6 44.4 219.5 155.1 182.6 158.7 361.2 388 354.3 47.2 156.2 36.7
15 159 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
16 159 1974 43 41.8 90.9 234.5 371.3 231.5 442.4 75.4 16.6 108.2 14.3 28.1
17 159 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
18 159 1976 0.7 103.1 68.5 220.5 93.6 100.8 95 175 58.7 68.8 31.9 35.3
19 159 1977 3.9 0 106.9 275.2 124.1 169.1 112.4 66 97.6 62.5 129.4 34.1
20 159 1978 25.5 33.6 85.2 34.7 13.9 604.9 66.3 77.1 90.7 68.3 114.3 27.4
21 159 1979 75.4 65.2 48.1 142 166.8 336.3 225.2 317.1 213.2 19 27.1 72.9
22 159 1980 18.4 15.1 121 160.5 241 146.5 319 449.4 180.2 191.5 49.9 20.8
23 159 1981 35.4 49.4 28.2 106.8 24.5 252.9 191.9 183.6 320.3 54.6 37.5 4.8
24 159 1982 33.3 34.1 83.9 142.2 105.2 29.4 306.1 192.7 113.1 15.8 95.8 16.5
    
```

Step 2. Upload data to CLIK

Metadata

1

The screenshot shows the CLIK web interface. At the top, there are tabs for 'MME', 'Downscale', and 'My Page'. The main heading is 'Stations [Dataset : Korea 1 station]'. Below this is a table with columns: Station ID, Country, NAME, WMO ID, Latitude, Longitude, and Undefined. The table contains one entry: Station ID 159, Country Korea, Republic of, NAME Busan, WMO ID -, Latitude 35.1047, Longitude 129.032, and Undefined -999. Below the table are buttons for 'Upload', 'Export', 'Insert', and 'Modify'. The 'Field separator' section has radio buttons for Comma(,), Space(), Tab(), and Colon(:). The 'Country' dropdown is set to 'Select Country'. The 'Station information file (example)' section has a 'Select File...' button, the filename 'Busan_meta.txt', and an 'Upload' button. Below this is the 'Data' section with a table for 'Year', 'Variable', and 'Unit'. The 'Field separator' section has radio buttons for Comma(,), Space(), Tab(), and Colon(:). The 'Variable' section has radio buttons for Precipitation and Temperature. The 'Unit' section has radio buttons for mm/month, mm/day, and others: [input]. The 'Country' dropdown is set to 'Korea, Republic of'. The 'Data file (example)' section has a 'Select File...' button, the filename 'Busan_prec.txt', and an 'Upload' button. A white 'Information' dialog box is overlaid on the interface, containing the text 'Success : Observed data file uploaded.' and a 'Close' button. A hand cursor is pointing at the 'Close' button, which is circled in red.

Observation data

2

Data Processing

Step 2. Upload data to CLIK

Metadata

1

CLIK Climate Information Toolkit

MME Downscale My Page Logout Edit

Stations [Dataset : Korea 1 station]

Station ID	Country	NAME	WMO ID	Latitude	Longitude	Undefined
159	Korea, Republic of	Busan	-	35.1047	129.032	-999

Showing 1 to 1 of 1 entries

Upload Export Insert Modify

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

Country:

Station information file (example): Busan_meta.txt

Observation data

2

Data [Station ID : 159]

Year	Variable	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1960	PREC	mm/month	3.5	34.6	115.9	103.7	213	61.5	124.8	45.6	383.9	46.5	56.9	8.7
1961	PREC	mm/month	22.7	21	153.8	134.1	179.9	132.8	338.4	320.7	159.2	145.6	186.1	27.5
1962	PREC	mm/month	2.8	16.3	23.3	150.3	45.2	137.4	271.1	292.5	176.7	54.1	48.2	17.5
1963	PREC	mm/month	3.4	3.7	39.4	199.1	242.1	937.5	363	172	78.2	65.2	20.1	19.3
1964	PREC	mm/month	33.3	49	54.2	312.2	148.5	174.6	67.1	28.3	236.6	14.3	12.4	0.1

Showing 1 to 58 of 58 entries

Upload Export Insert Modify

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

Variable: Precipitation Temperature

Unit: mm/month mm/day others:

Country:

Data file (example): Busan_prec.txt

Close

Data Processing

Step 2. Upload data to CLIK

clik Climate Information Toolkit 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
Korea 1 station	Korea, Republic of	1	1960 ~ 2017	N/A	apcc
GHCN	GHCN	3707	1950 ~ 2009	N/A	PUBLIC

Create Edit Remove


5000km

How to use?

▼ Add ▲ Remove

Data Processing

Step 2. Upload data to CLIK



MME **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
Korea 60 Stations	Korea, Republic of	60	1973 ~ 2008	1973 ~ 2006	PUBLIC
Korea 1 station	Korea, Republic of	1	1960 ~ 2017	N/A	apcc
GHCN	GHCN	3707	1950 ~ 2009	N/A	PUBLIC


Create Edit Remove



▼ Add ▲ 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
Korea 1 station	Korea, Republic of	1	1960 ~ 2017	N/A	apcc
GHCN	GHCN	3707	1950 ~ 2009	N/A	PUBLIC

Create Edit Remove




How to use?

Stations (1)				
	Station ID	Name	Precipitation	Temperature
●	159	Busan	1960/1 ~ 2017/12	N/A

NEXT

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

Step 2. Upload data to CLIK

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!