

WORLD METEOROLOGICAL ORGANIZATION

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CBS/GCOS LC/Doc. 10.1  
(30.X.2009)

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**CBS LEAD CENTRES FOR GCOS  
COORDINATION MEETING**

ITEM: 10

GENEVA, SWITZERLAND  
10-12 NOVEMBER 2009

Original: ENGLISH

**DEMONSTRATION OF NEW TOOLS**

**ClimatView**

*(Submitted by Takifumi Umeda, Japan Meteorological Agency)*

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**Summary and Purpose of Document**

This document provides information of an interactive new climate database developed and launched by Japan

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**ACTION PROPOSED**

The meeting is invited to take into account the information provided in the document when considering the relevant agenda item

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# Demonstration of a new tool: ClimatView

Takafumi UMEDA

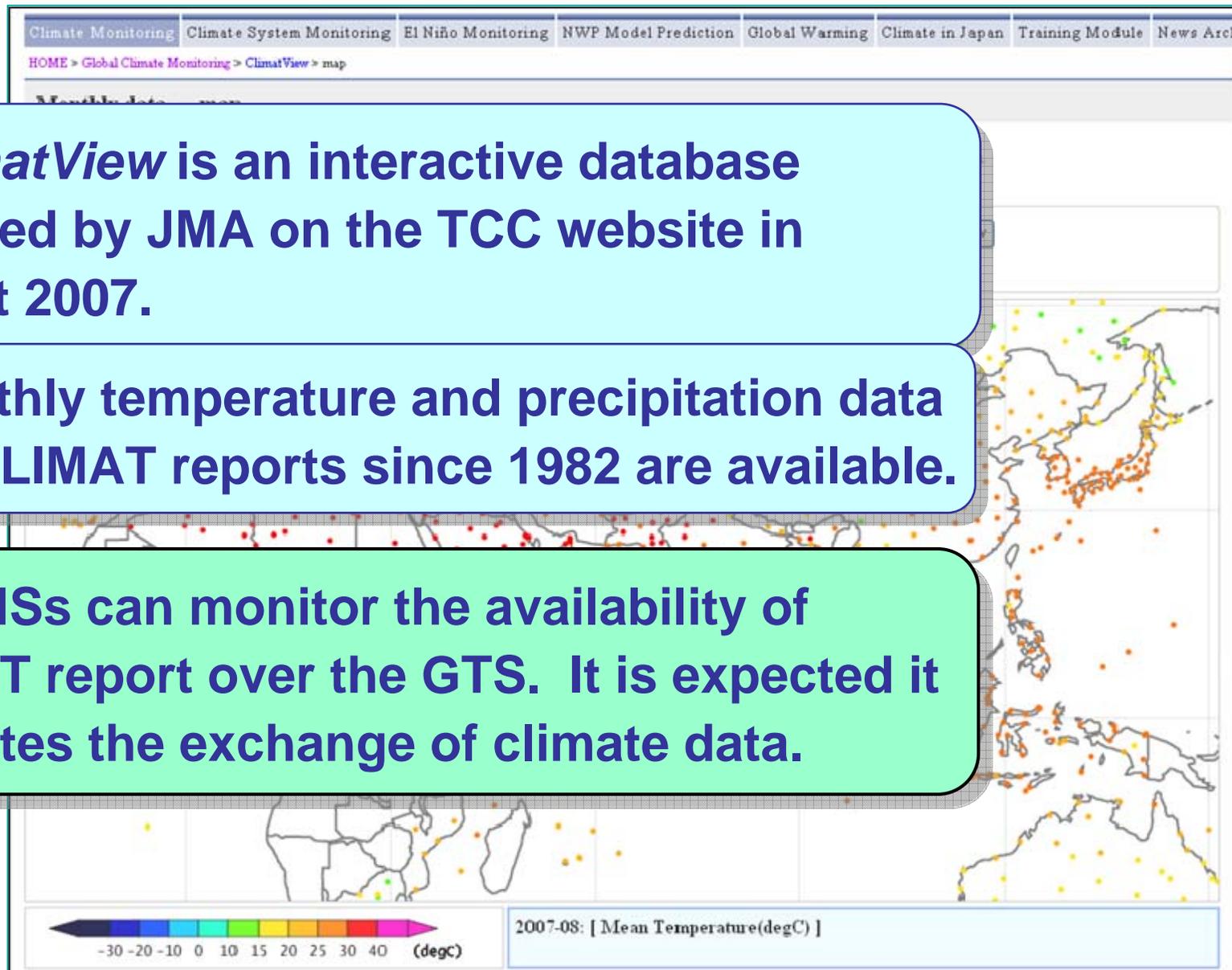
*Climate Prediction Division (CPD)*

*Japan meteorological Agency (JMA)*

# New Climate Database “ClimatView”

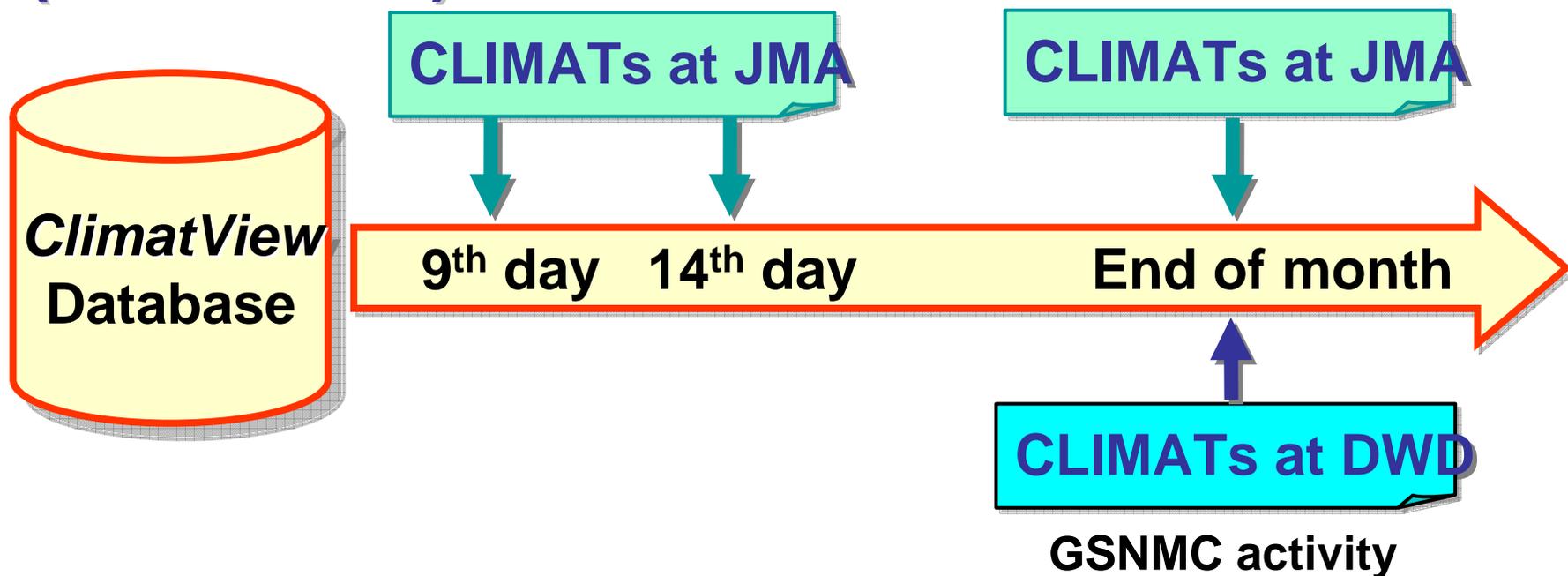
TCC website - <http://ds.data.jma.go.jp/gmd/tcc/climatview>

- *ClimatView* is an interactive database launched by JMA on the TCC website in August 2007.
- Monthly temperature and precipitation data from CLIMAT reports since 1982 are available.
- NMHSs can monitor the availability of CLIMAT report over the GTS. It is expected it facilitates the exchange of climate data.



## Data updating on *ClimatView*

- Data on *ClimatView* are derived from CLIMAT reports received at DWD and JMA.
- Data are updated on around 9<sup>th</sup> day, 14<sup>th</sup> day (JMA), and the end of the month (DWD+JMA).



# TCC Top Page

<http://ds.data.jma.go.jp/tcc/tcc/index.html>



Welcome to Tokyo Climate Center

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HOME

## Main Products

[World Climate](#)

[Climate System Monitoring](#)

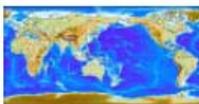
[El Niño Monitoring](#)

[NWP Model Prediction](#)

[Global Warming](#)

[Climate and Outlook in Japan](#)

## ClimatView



[GPC Long-range forecast \(LRF\) Products](#)



[TCC News \(latest issue\)](#)

## What's New

**16 October 2009 NEW**

▶ New Release: [Monthly Highlights on Climate System \(September 2009\)](#)

**14 October 2009 NEW**

▶ Updated Information: [World Climate - Monthly Report \(September 2009\)](#)

**9 October 2009 NEW**

▶ Updated Information: [Global Average Surface Temperature Anomaly \(September 2009\)](#)  
- [Press Release: Record-tying High Global Surface Temperature in September 2009](#)

**9 October 2009 NEW**

▶ Updated Information: [El Niño Outlook \(September 2009\)](#)

**9 October 2009 NEW**

▶ Updated Information: [Climate in Japan - Monthly Report \(September 2009\)](#)

**18 September 2009 NEW**

▶ Renewed Contents: [Statistical Relationships - Atmospheric circulations regressed on El Niño Monitoring Indices](#)  
- [Explanatory Note](#)

## Links

▶ [RA II Regional Climate Center \(RCC\) Network Homepage](#)

▶ [WMO DDB \(Various Climate-related Products and Data\)](#)

▶ [Monthly Climate Statistics for Japan](#)

▶ [Satellite Imagery of MTSAT-1R](#)

▶ [Tropical Cyclone Advisory : Tokyo Typhoon Center](#)

▶ [Japanese 25-year Reanalysis Project \(JRA-25\)](#)

▶ [JRA-25 Atlas NEW](#)

▶ [World Data Center for Greenhouse Gases \(WDCGG\)](#)

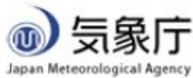
▶ [RSMC Tokyo - Typhoon Center](#)

▶ [Meteorological Research Institute, JMA](#)

▶ [Meteorological Satellite Center, JMA](#)

▶ [World Meteorological Organization \(WMO\)](#)

# ClimatView Top Page



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HOME > [Climate in the World](#) > ClimatView

## ClimatView --- tool to see monthly climate data

First of all, please read this explanation.

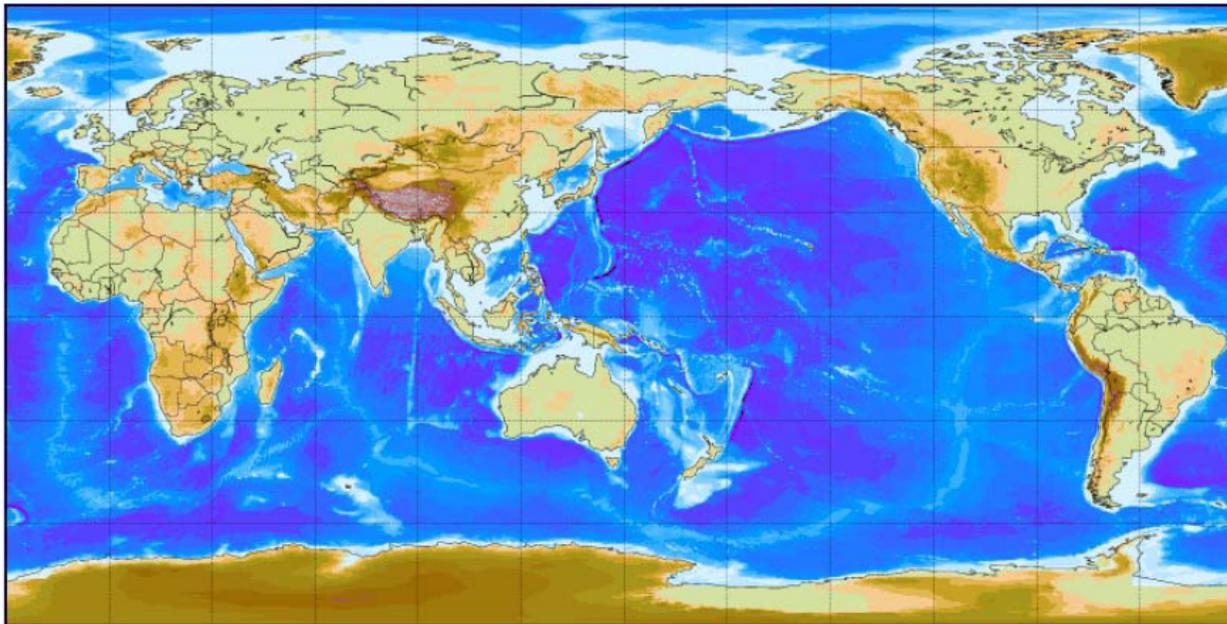
Please click on the area of the following map that you would like to see.

[Explanation »](#)

Detailed historical monthly data in Japanese stations are available at: <http://www.jma.go.jp/obd/stats/data/en/smp/index.html>

Select year/month

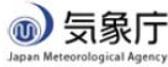
year 2009 month 09



Download For viewing the graphics you need the [SVG Viewer](#).  
(For Internet Explorer only. You cannot display the pictures with Mozilla.)

[ClimView] Ver.0.93J / Last Modified: 16 Mar 2007 All rights reserved, Copyright © 2004-2007 CPD/JMA

# Explanation Page



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[< ClimatView TOP](#)

## Explanation of ClimatView

ClimatView is a tool for overviewing and downloading monthly world climate data. It allows the user to see and obtain monthly mean temperatures, monthly total precipitation amounts and its anomaly or ratio at all available stations. Monthly means of daily maximum/minimum temperatures are also available. These data are derived from CLIMAT messages via the GTS line from WMO Members around the world.

Data are available for the period after June 1982 when JMA started receiving CLIMAT messages. The current data refer to last month or the month before, and are usually updated around the 14th of each month. CLIMAT data received at the Deutscher Wetterdienst (DWD) are also included in the database. JMA and DWD have operated the GCOS Surface Network Monitoring Centre in collaboration (<http://www.gsnmc.dwd.de/GSNMC.htm>) and exchanged CLIMAT data since 1999. JMA implements quality-checking of these data, although a few erroneous examples may remain in some cases.

Climatological normals for monthly mean temperature and monthly total precipitation are based on the period 1971-2000. The data sources for the normals are based on CLIMAT messages received at JMA and the GHCN data distributed by the NCDC of NOAA (<http://www.ncdc.noaa.gov/gcag/gcag.html>).

To view ClimatView graphics, Adobe-SVG Viewer is required (for Internet Explorer only; cannot be displayed with Mozilla).



Please download the Adobe SVG Viewer, unless you have already installed it on your PC.

### 1. Click on the area of interest

On the top page of ClimatView, a global map is shown. Clicking on an area of interest shows another map of the area with the distribution of monthly mean temperatures. The month and year are selected on the top page (the default value is the most recent month).

### 2. Distribution map

The user can choose the indicated area, month/year and element (monthly mean temperature, monthly total precipitation, monthly mean of daily maximum/minimum temperature, monthly mean temperature anomaly, monthly total precipitation ratio, normal of monthly mean temperature and normal of monthly total precipitation).

Hovering over a station on the distribution map page shows the data of the chosen element and the name of the station in a pop-up balloon.

Data at all stations in the selected area can be shown as a table by clicking the "Data list" button.

### 3. Historical graph and data

A time-sequential graph for two years can be displayed by clicking on the station. The period of the graph can be changed (1 year, 2 years, 5 years and all years are available). The list of data used for the graph is indicated below it, and can be download as a text file by clicking the "Download" button.

Please note that Adobe discontinued support for Adobe SVG Viewer on January 1, 2009. Unfortunately, JMA has no plan to change the viewer, for now.

# ClimatView Top Page



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## ClimatView --- tool to see monthly climate data

Please click on the area of the following map that you would like to see. [Explanation »](#)  
Detailed historical monthly data in Japanese stations are available at: <http://www.data.jma.go.jp/obd/stats/data/en/smp/index.html>

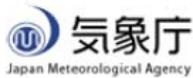
Select year/month

2009	01
2008	02
2007	03
.	04
.	05
.	06
	07
	08
	09
	10
	11
	12

Download For viewing the graphics you need the [SVG Viewer](#).  
(For Internet Explorer only. You cannot display the pictures with Mozilla.)

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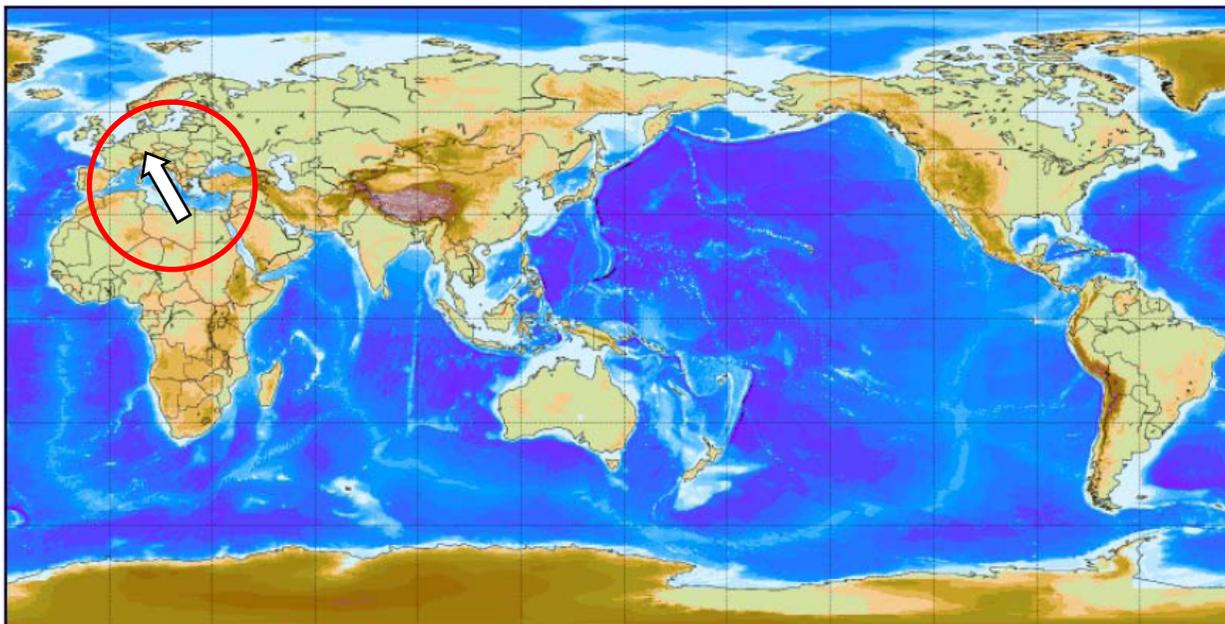
HOME > [Climate in the World](#) > ClimatView

## ClimatView --- tool to see monthly climate data

Please click on the area of the following map that you would like to see. [Explanation »](#)  
Detailed historical monthly data in Japanese stations are available at: <http://www.data.jma.go.jp/obd/stats/data/en/smp/index.html>

Select year/month

year  month



Click on the area of interest

Download For viewing the graphics you need the [SVG Viewer](#).  
(For Internet Explorer only. You cannot display the pictures with Mozilla.)

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Monthly data --- map

If you move your mouse to the observation points on the map, the point's name and data which you chose in "Search form" are shown. Please click the point to see the chart of monthly data.

Search Form

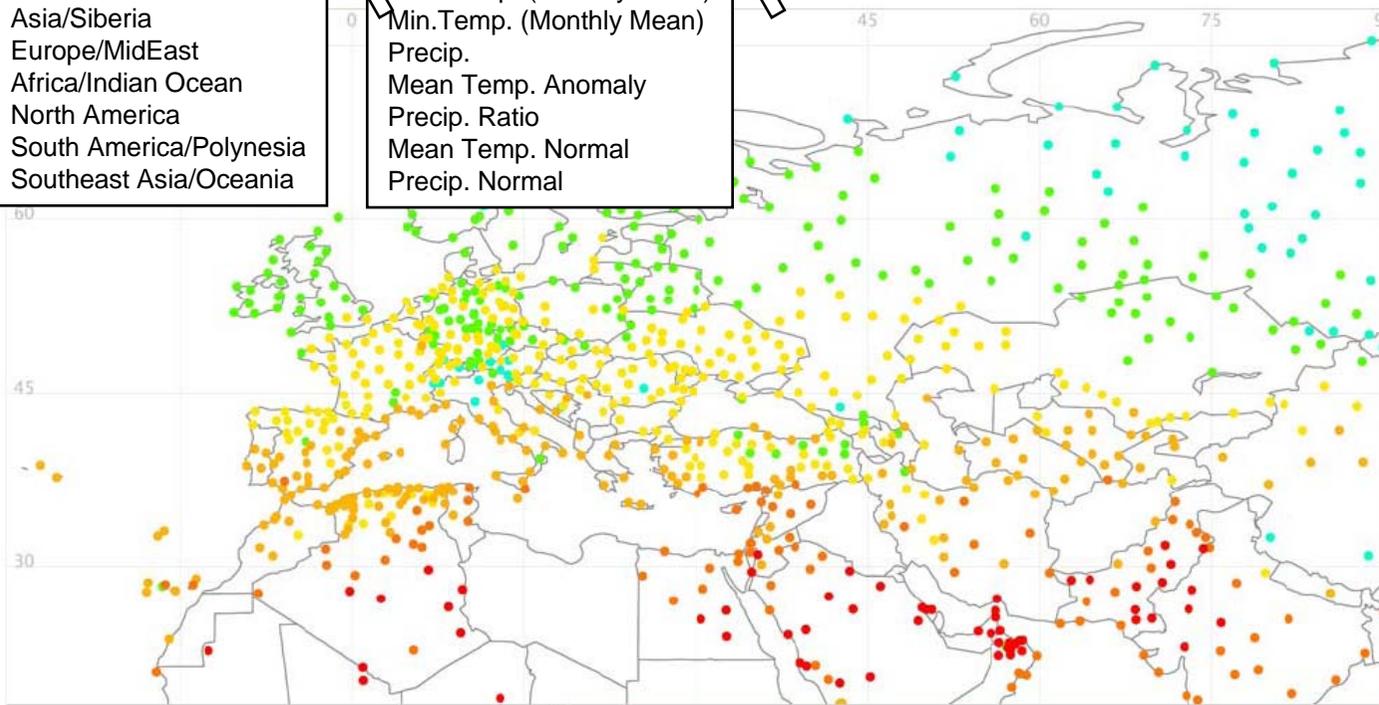
Region:

- World
- Asia/Siberia
- Europe/MidEast
- Africa/Indian Ocean
- North America
- South America/Polynesia
- Southeast Asia/Oceania

- Mean Temp.
- Max.Temp. (Monthly Mean)
- Min.Temp. (Monthly Mean)
- Precip.
- Mean Temp. Anomaly
- Precip. Ratio
- Mean Temp. Normal
- Precip. Normal

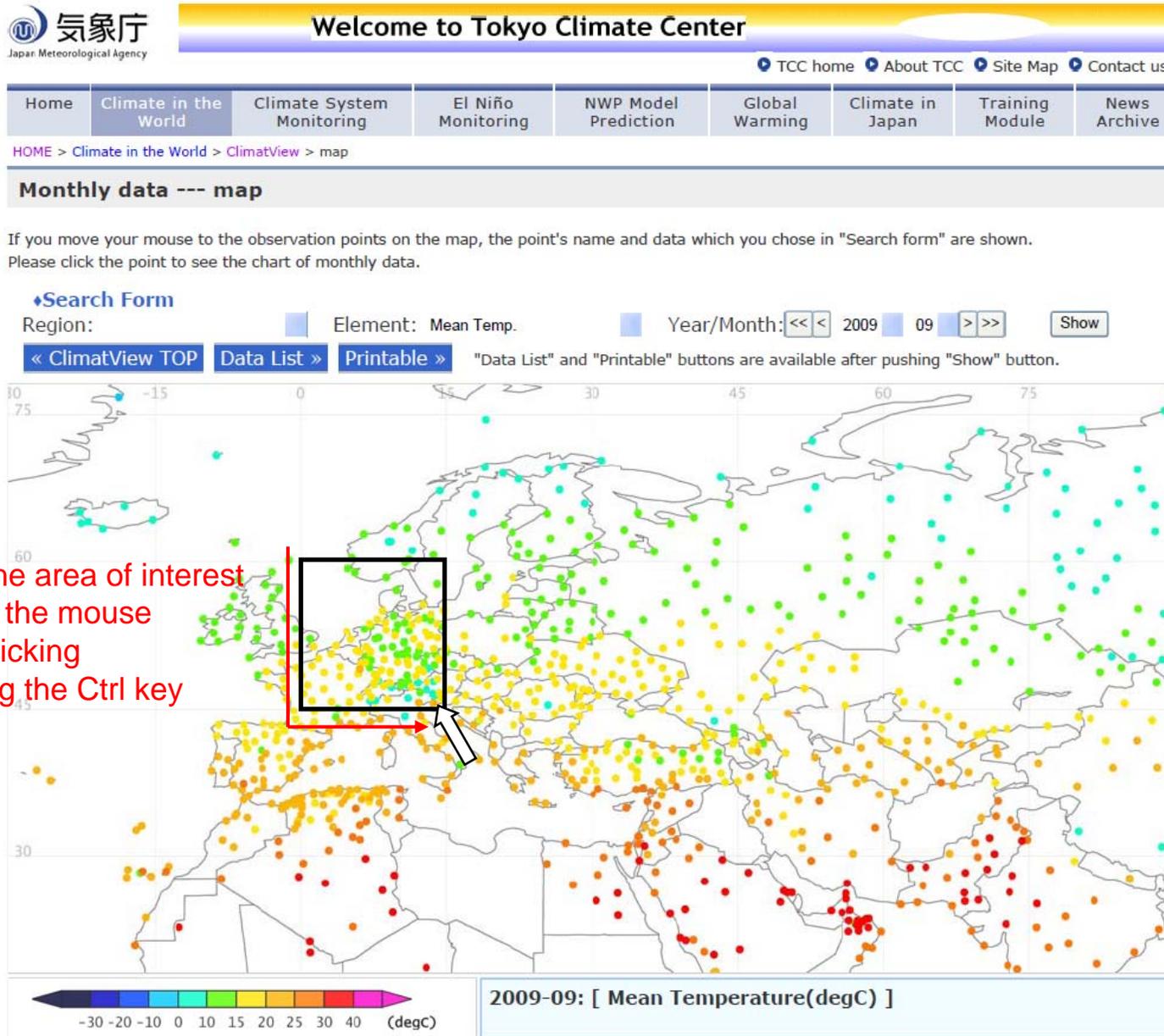
Year/Month: << < 2009 09 > >> Show

Available buttons are available after pushing "Show" button.

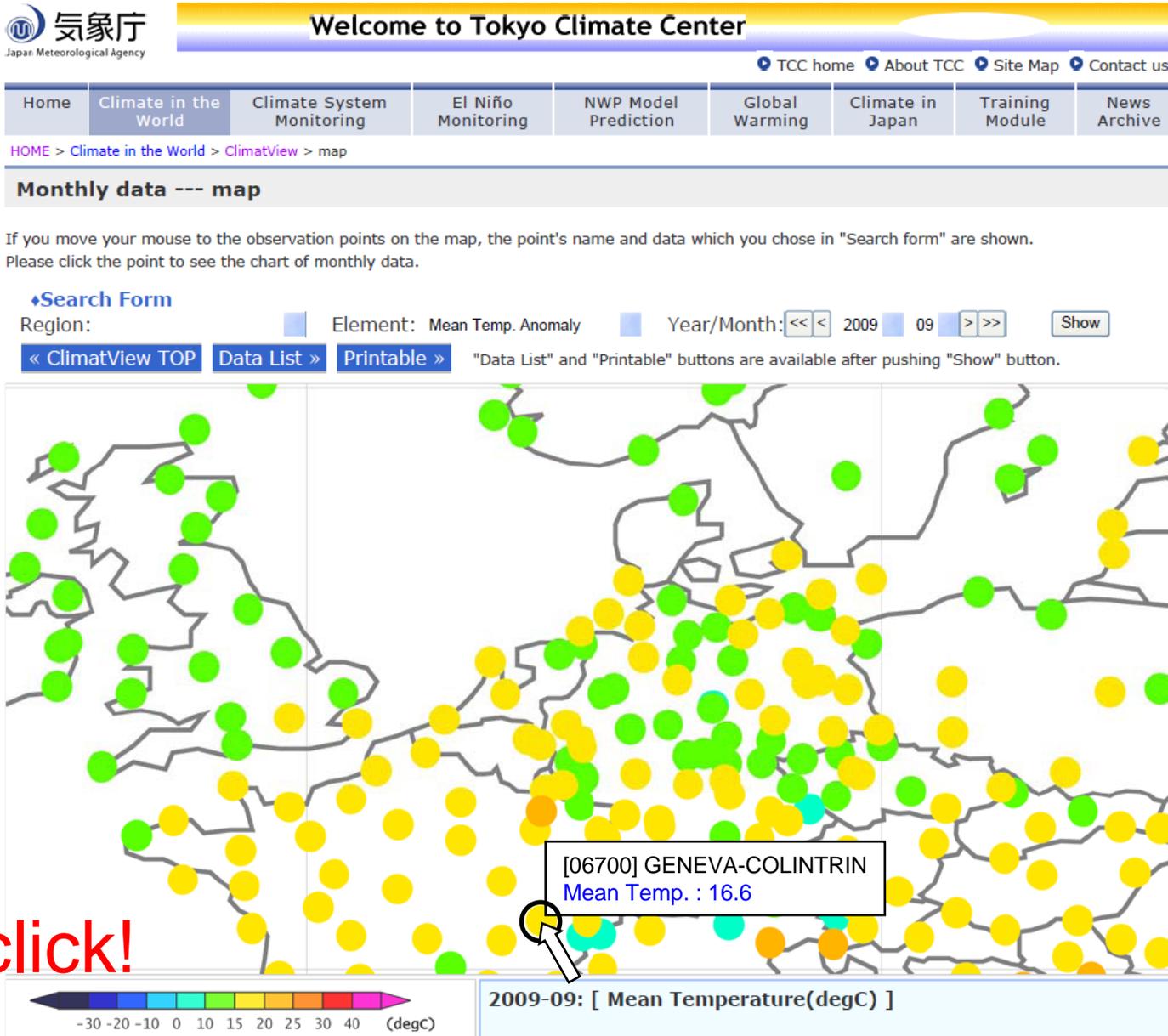


2009-09: [ Mean Temperature(degC) ]

# Too crowded! Which point is for Geneva?



# I have found the point for Geneva!



Left-click!

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HOME > Climate in the World > ClimatView > chart/table

Monthly data --- chart/table

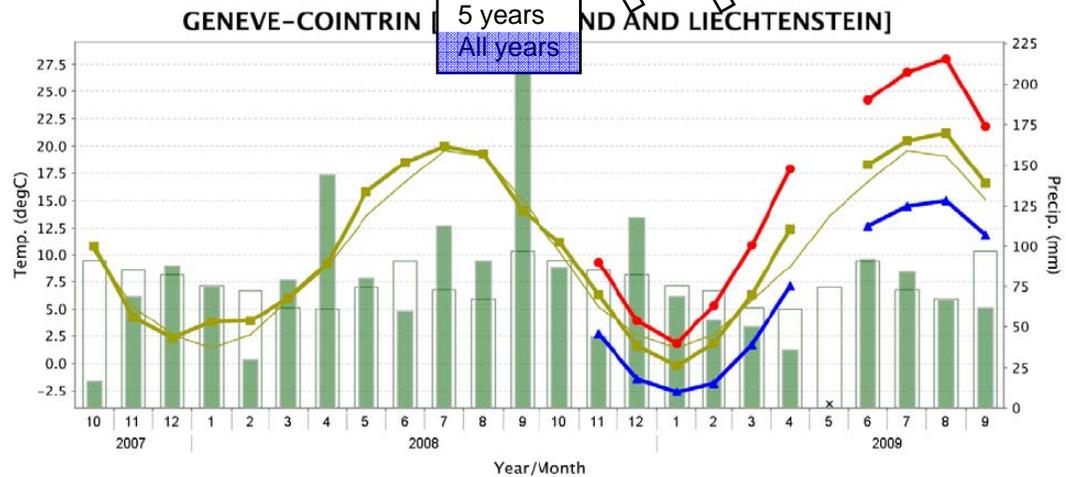
Search Form

Year/Month: << 2009 09 >>

< Map Printable >

1 year  
2 years  
5 years  
All years

Show



■ Mean Temp. 
 ■ Max.Temp.(Monthly Mean) 
 ■ Min.Temp.(Monthly Mean) 
 ■ Mean Temp. Normal 
 ■ Precip. 
  Precip. Normal  
 x No data

GENEVE-COINTRIN - SWITZERLAND AND LIECHTENSTEIN  
 Lon.: 6.13°E / Lat.: 46.25°N Height: 420(m)

Download --- download in text file

Year/Month	Observation				Normal	
	Mean Temp. [degC]	Max. Temp. (Monthly Mean) [degC]	Min. Temp. (Monthly Mean) [degC]	Precip. [mm]	Mean Temp. [degC]	Precip. [mm]
2007-10	10.8			17.0	10.3	91.1
2007-11	4.2			69.0	5.2	85.1
2007-12	2.3			88.0	2.6	82.2

Home	Climate in the World	Climate System Monitoring	El Niño Monitoring	NWP Model Prediction	Global Warming	Climate in Japan	Training Module	News Archive
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HOME > Climate in the World > ClimatView > chart/table

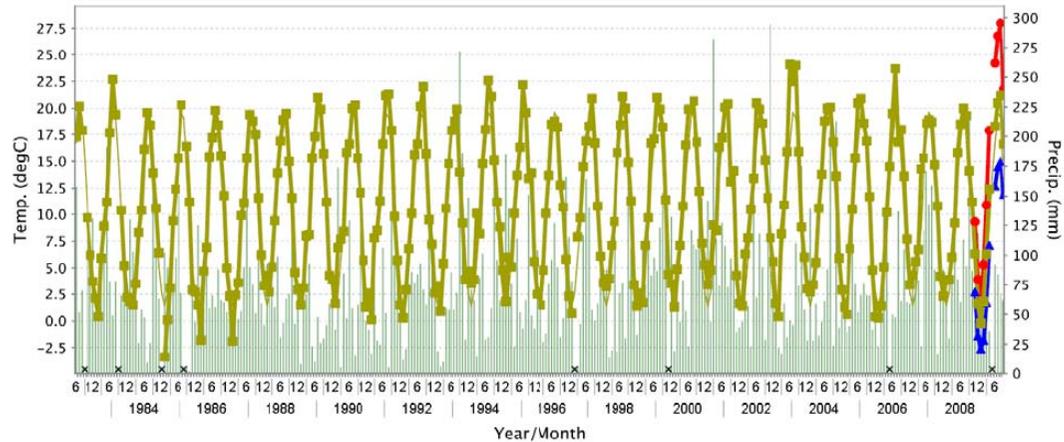
Monthly data --- chart/table

Search Form

Year/Month: << < 2009 09 > >> Term: all years Show

<< Map Printable >>

GENEVE-COINTRIN [SWITZERLAND AND LIECHTENSTEIN]



■ Mean Temp. 
 ● Max.Temp.(Monthly Mean) 
 ▲ Min.Temp.(Monthly Mean) 
 — Mean Temp. Normal 
 ■ Precip. 
  Precip. Normal 
   
 × No data

GENEVE-COINTRIN - SWITZERLAND AND LIECHTENSTEIN  
 Lon : 6.13°E / Lat.: 46.25°N Height: 420(m)

Download --- download in text file

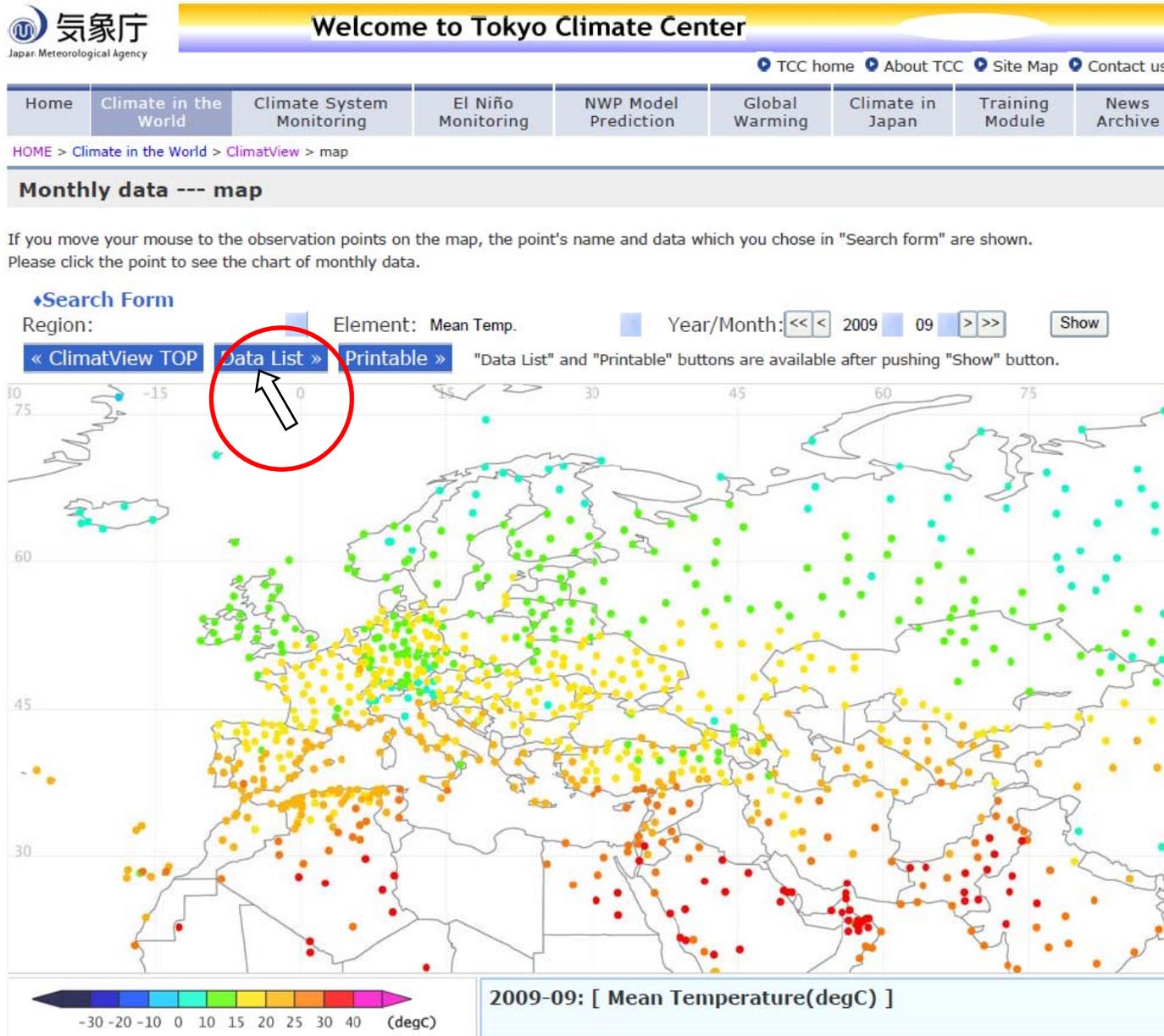
Year/Month	Observation				Normal	
	Mean Temp. [degC]	Max. Temp. (Monthly Mean) [degC]	Min. Temp. (Monthly Mean) [degC]	Precip. [mm]	Mean Temp. [degC]	Precip. [mm]
1982-6	17.3			158.0	16.7	90.9
1982-7	20.2			52.0	19.6	73.0
1982-8	17.9			70.0	19.1	67.3

The text file of CLIMAT data for each station  
can be downloaded to your PC!

GENEVE-COINTRIN		SWITZERLAND AND		LIECHTENSTEIN			
Year	Month	Mean Temp.		Max.Temp. (Monthly Mean)			
		Min.Temp. (Monthly Mean)	Precp	Mean Temp.	Normal	Prec.	Normal
		degC	degC	degC	mm	degC	mm
1982	6	17.3	-	-	158.0	16.7	90.9
1982	7	20.2	-	-	52.0	19.6	73.0
1982	8	17.9	-	-	70.0	19.1	67.3
1982	9	-	-	-	-	15.1	96.9
1982	10	9.7	-	-	138.0	10.3	91.1
1982	11	6.2	-	-	101.0	5.2	85.1
1982	12	3.7	-	-	131.0	2.6	82.2
1983	1	2.1	-	-	52.0	1.4	75.4
1983	2	0.4	-	-	57.0	2.6	72.5
1983	3	5.9	-	-	85.0	5.8	62.0
1983	4	8.9	-	-	101.0	8.9	61.3
1983	5	11.2	-	-	191.0	13.6	74.6
1983	6	17.7	-	-	78.0	16.7	90.9
1983	7	22.7	-	-	49.0	19.6	73.0
1983	8	19.4	-	-	78.0	19.1	67.3
1983	9	-	-	-	-	15.1	96.9
1983	10	10.4	-	-	66.0	10.3	91.1
1983	11	5.2	-	-	99.0	5.2	85.1

■ ■ ■ ■ ■ ■ ■ ■ ■ ■

# Again, the map page of monthly data.



# Any data can be found by the station name ! (with using search function of the browser)



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HOME > Climate in the World > ClimatView > data list

## Monthly data list

### Search Form

Year/Month: <<< 2009 09 >>> Show

- ~~World~~
- Asia/Siberia
- Europe/MidEast
- Africa/Indian Ocean
- North America
- South America/Polynesia
- Southeast Asia/Oceania

	Country	Mean Temp. [degC]	Mean Temp. Anomaly [degC]	Max Temp. (Monthly Mean) [degC]	Min Temp. (Monthly Mean) [degC]	Precip. [mm]	Precip. Ratio [%]
	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	11.7	+1.4	13.4	9.9	75	65.0
KIRKWALL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	12.5		14.9	10.1	105	99.2
STORNOWAY AIRPORT	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	12.6	+1.3	14.9	10.3	88	77.7
KINLOSS	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	13.5	+1.1	16.8	10.0	106	159.2
DYCE	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	13.1	+1.3	16.9	9.3	103	141.1
TREE	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	13.0	+0.8	15.0	10.9	72	60.8
ESKDALEMUIR	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	11.9	+1.2	15.5	8.2	91	66.5
LEUCHARS	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	13.4		17.0	9.7	90	146.6
LEEMING	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	13.8	+0.5	18.0	9.6	21	39.3
VALLEY	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	14.0	+0.0	16.7	11.3	29	39.7
WADDINGTON	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	14.7	+0.9	18.4	10.9	16	32.7
SHAWBURY	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	13.8		18.1	9.5	25	42.1
ABERPORTH	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	13.5	-0.1	15.9	11.0	21	29.2
WATTISHAM	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	14.9		19.5	10.2	21	

# Thank you!



JMA Head Quarters, Tokyo, Japan

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