

# Data Collection or Production Centre for the World Weather Information Service

## Introduction

The Data Collection or Production Centre (DCPC) for the World Weather Information Service (WWIS) operated by the Hong Kong Observatory (HKO) is a component of the World Meteorological Organization Information System (WIS). It manages and disseminates official weather forecasts and climatological information for worldwide cities supplied by the respective National Meteorological and Hydrological Services (NMHSs).

WIS is a coordinated global infrastructure for all World Meteorological Organization (WMO) Programmes to meet the requirements for routine collection and automated dissemination of data and products, as well as data discovery, access and retrieval (DAR) services for all weather, climate, water and related data produced by centres and Member countries in the framework of WMO.

WWIS is a web site (<http://worldweather.wmo.int>) operated by the HKO on behalf of WMO. It was launched in 2002 to serve as a centralized source on the Internet for user to access official weather information issued by NMHSs. With the weather information collected under the WWIS programme, the DCPC for WWIS generates the corresponding data and metadata in conformance with WMO's standards to provide DAR services.

## Services of the DCPC for WWIS

The DCPC for WWIS has three major functions:

- Provides online services for global users to search and access the official weather forecasts and climatological information for cities around the world;
- Offers subscription service for users to automatically receive timely update of weather information of interest via RSS; and
- Provides metadata of the weather information available at the DCPC for WWIS to other systems such as the Global Information System Centres (GISCs) of the WIS for users to search for weather information via the GISC's DAR services.

## Overview of the DCPC for WWIS

The DCPC for WWIS consists of a database, application programs and the front-end graphical user interface. The graphical user interface enables Internet users to search and browse the weather information presented in tabular form. Besides, official world city forecasts and climatological information encoded in standard JSON format are published by the DCPC for WWIS to enable subsequent data exchange between computer systems. The DCPC for WWIS portal is available at <http://dcpc.worldweather.org> on the Internet. A sample of the webpage is given below.

The screenshot displays the web interface for the Data Collection or Production Centre for the World Weather Information Service. The header includes logos for Global Official Forecasts, WMO, and the Hong Kong Observatory (香港天文台). The main content area features search filters on the left and a world map on the right. The filters include:

- Product type:** Radio buttons for "Climatological information" and "Weather forecast" (selected).
- Issue time of weather information (past 7 days):** Date range from "12 Jun 2016" to "14 Jun 2016".
- Area of interest:** Input fields for "Upper right corner" and "Lower left corner" with "Latitude" and "Longitude" labels and ranges.
- Country/territory:** A dropdown menu currently set to "Not selected".
- City name (Keyword):** A text input field.
- Buttons:** "Search" and "Clear" buttons.

The world map on the right is titled "Map (browsing mode; press 'Ctrl' to switch to area selection mode)" and shows a global distribution of blue circular data points. A "Note" link is visible in the top right corner of the map area.

## Search and access

Users can use the web-based graphical user interface to search the product catalog and browse the weather information therein. Detailed steps are given below.

Click on the radio button to select climatological information or weather forecast. Those cities providing climatological or weather forecast will be marked on the map.

Use the option boxes to specify the time period of interest based on the issue time of the weather information.

Use the map or type in the latitude and longitude information to define the area of interest.

Use the option box to specify Country or Territory of the weather information.

Either double-click on the city marker as shown on the map to directly select a city or type in the name of the city in interest.

Press the Search button to search or press the Clear Button to clear all inputs.

After entering the searching criteria, the search results are listed as shown in the figures below:

**Global Official Forecasts** **WMO** **香港天文台 HONG KONG OBSERVATORY** [About this web site User Guide](#)

### Data Collection or Production Centre for the World Weather Information Service

Product type:  Climatological information  Weather forecast

Issue time of weather information (past 7 days): from 4 Jul 2016 to 6 Jul 2016

Area of interest: Latitude (Range: -90.0 to 90.0): 54.71; Longitude (Range: -180.0 to 180.0): 149.42

Country/territory: Not selected

City name (Keyword):

Search  Clear

Map (area selection mode; press "Ctrl" to switch to browsing mode) [Note](#)

**Weather forecast of 248 city/cities found from searching.**

248 1 2 3 4 5 6 7 8 9

Record(s) 1 - 30

City	Weather forecast	JSON	RSS	Country/territory of selected city
1 Bandar Seri Begawan				Brunei Darussalam
2 Beijing				
3 Changchun				
4 Changsha				
5 Chengdu				
6 Chongqing				
7 Dalan				
8 Fuzhou				
9 Guangzhou				
10 Gulin				

Search results

**World Weather Information Service**

Search for City/Country:

## Bandar Seri Begawan

Brunei Darussalam

Brunei Darussalam Meteorological Department

Current Local Time: Tue, 14 Jun 2016 3:24 PM

Tourism Information: The Brunei Tourism Website

**Weather Forecast**

Issued at 6:00 AM (Local Time) 13 Jun 2016

Date	Temperature (°C)	Weather
14 Jun (Tue)	24 / 32	Showers
15 Jun (Wed)	24 / 32	Showers
16 Jun (Thu)	25 / 33	Showers

**Climatological Information**

Bandar Seri Begawan

Mean Total Rainfall, Mean Max. Temperature, Mean Min. Temperature

Month	Mean Daily Minimum Temperature (°C)	Mean Daily Maximum Temperature (°C)	Mean Total Rainfall (mm)	Mean Number of Rain Days
Jan	23.3	30.4	370.6	16
Feb	23.2	30.7	356.9	12
Mar	23.6	31.0	318.7	11
Apr	23.7	32.5	385.4	16
May	23.7	32.6	238.9	10
Jun	23.4	32.5	210.1	10
Jul	23	32.3	205.9	10
Aug	23.1	32.4	220.6	10
Sep	23.1	32	284.6	10
Oct	23.2	31.8	322.3	10
Nov	23.2	31.4	370.9	13
Dec	23.2	31	370.6	13

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Click on the icon to display the details of the weather information of the city of interest.

The weather information is also available in RSS document. The RSS document can be read using RSS reader.

**Data Collection or Production Centre for the World Weather Information Service**

Product type:  Climatological information  Weather forecast

Issue time of weather information (past 7 days): from 4 Jul 2016 to 6 Jul 2016

Area of interest: Latitude (Range: -90.0 to 90.0) Longitude (Range: -180.0 to 180.0)

Upper right corner: 54.71 149.42

Lower left corner: -8.18 74.89

Country/territory: Not selected

City name (Keyword):

Search Clear

Weather forecast of 248 city/cities found from searching.

248 1 2 3 4 5 6 7 8 9

Record(s) 1 - 30

City	Weather forecast	JSON	RSS	Country/territory of selected city
1 Bandar Seri Begawan				Brunel Darussalam
2 Beijing				
3 Changchun				
4 Changsha				
5 Chengdu				
6 Chongqing				
7 Dalian				
8 Fuzhou				
9 Guangzhou				
10 Gullin				

For enquiry or feedback on the DCPC service, please contact Mr. Chan Sai-tick at email: [dcpc@hko.gov.hk](mailto:dcpc@hko.gov.hk).

Prepared by  
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