

Title

Water Modelling-Stochastic Climate Data-Greater Sydney-Silo Station (iv of xi)
ID 066001-067020

Abstract

The stochastic climate data include 10,000 replicates of 130-yr daily data sets of rainfall and potential evapotranspiration generated using observed data sets without and with combined climate data. This work has been undertaken by researchers at the University of Newcastle and used in modelling for Greater Sydney Water Strategy.

This particular Asset (066001-067020) houses Silo Station IDs:

- 066047 - PENNANT HILLS (YARRARA ROAD)
- 066063 - WAHROONGA RESERVOIR
- 066124 - PARRAMATTA NORTH (MASONS DRIVE)
- 066129 - BEECROFT
- 067002 - CASTLEREAGH (CASTLEREAGH ROAD)
- 067010 - GLENORIE (OLD NORTHERN RD)
- 067014 - MAROOKA (OLD TELEGRAPH ROAD)
- 067015 - BRINGELLY (MARYLAND)
- 067019 - PROSPECT RESERVOIR

Note: If you would like to ask a question, make any suggestions, or tell us how you are using this dataset, please visit the [NSW Water Hub which has an online forum](#) you can join.

Resource locator

[Data Quality Statement](#)

Name: Data Quality Statement

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Data quality statement

Function: download

[066047_PENNANT HILLS \(YARRARA ROAD\)_Mwet](#)

Name: 066047_PENNANT HILLS (YARRARA ROAD)_Mwet

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mwet data for 3250 replicates for 066047 (PENNANT HILLS (YARRARA ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[066047_PENNANT HILLS \(YARRARA ROAD\)_Rain](#)

Name: 066047_PENNANT HILLS (YARRARA ROAD)_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 066047 (PENNANT HILLS (YARRARA ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[066063_WAHROONGA RESERVOIR_Rain](#)

Name: 066063_WAHROONGA RESERVOIR_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 066063 (WAHROONGA RESERVOIR); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[066124_PARRAMATTA NORTH \(MASONS DRIVE\)_Rain](#)

Name: 066124_PARRAMATTA NORTH (MASONS DRIVE)_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 066124 (PARRAMATTA NORTH (MASON'S DRIVE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[066129_BEECROFT_Rain](#)

Name: 066129_BEECROFT_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 066129 (BEECROFT); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002_CASTLEREAGH
\(CASTLEREAGH
ROAD\)_FAO56](#)

Name: 067002_CASTLEREAGH (CASTLEREAGH ROAD)_FAO56

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic FAO56 data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002_CASTLEREAGH
\(CASTLEREAGH
ROAD\)_Mlake](#)

Name: 067002_CASTLEREAGH (CASTLEREAGH ROAD)_Mlake

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mlake data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002_CASTLEREAGH
\(CASTLEREAGH
ROAD\)_Mwet](#)

Name: 067002_CASTLEREAGH (CASTLEREAGH ROAD)_Mwet

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mwet data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002_CASTLEREAGH
\(CASTLEREAGH
ROAD\)_Rain](#)

Name: 067002_CASTLEREAGH (CASTLEREAGH ROAD)_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010_GLENORIE \(OLD
NORTHERN RD\)_FAO56](#)

Name: 067010_GLENORIE (OLD NORTHERN RD)_FAO56

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic FAO56 data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010_GLENORIE \(OLD](#)

Name: 067010_GLENORIE (OLD NORTHERN RD)_Mlake

[NORTHERN RD\)_Mlake](#)

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mlake data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010_GLENORIE \(OLD NORTHERN RD\)_Rain](#)

Name: 067010_GLENORIE (OLD NORTHERN RD)_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010_GLENORIE \(OLD NORTHERN RD\)_Mwet](#)

Name: 067010_GLENORIE (OLD NORTHERN RD)_Mwet

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mwet data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014_MARROOTA \(OLD TELEGRAPH ROAD\)_FA056](#)

Name: 067014_MARROOTA (OLD TELEGRAPH ROAD)_FA056

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic FA056 data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014_MARROOTA \(OLD TELEGRAPH ROAD\)_Mlake](#)

Name: 067014_MARROOTA (OLD TELEGRAPH ROAD)_Mlake

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mlake data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014_MARROOTA \(OLD TELEGRAPH ROAD\)_Rain](#)

Name: 067014_MARROOTA (OLD TELEGRAPH ROAD)_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014_MARROOTA \(OLD TELEGRAPH ROAD\)_Mwet](#)

Name: 067014_MARROOTA (OLD TELEGRAPH ROAD)_Mwet

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mwet data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067015_BRINGELLY
\(MARYLAND\)_Rain](#)

Name: 067015_BRINGELLY (MARYLAND)_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 067015 (BRINGELLY (MARYLAND)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067015_BRINGELLY
\(MARYLAND\)_Mwet](#)

Name: 067015_BRINGELLY (MARYLAND)_Mwet

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mwet data for 3250 replicates for 067015 (BRINGELLY (MARYLAND)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067019_PROSPECT
RESERVOIR_Rain](#)

Name: 067019_PROSPECT RESERVOIR_Rain

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Rain data for 3250 replicates for 067019 (PROSPECT RESERVOIR); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067019_PROSPECT
RESERVOIR_Mwet](#)

Name: 067019_PROSPECT RESERVOIR_Mwet

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mwet data for 3250 replicates for 067019 (PROSPECT RESERVOIR); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[Map View for data
download](#)

Name: Map View for data download

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

All the stations in Greater Sydney area are shown in this State level map (ESRI Rest Map Service Format), and the data can be downloaded by clicking each station.

Function: download

Unique resource identifier

Code 2087aa1e-d0a8-4f79-895f-a0af3d90f3af

Presentation form Table digital

Edition 1.0

Dataset language English

Metadata standard

Name ISO 19115

Edition

2016

Dataset URI

<https://datasets.seed.nsw.gov.au/dataset/2087aa1e-d0a8-4f79-895f-a0af3d90f3af>

Purpose

Climate data is a fundamental input dataset required for water modelling. The stochastic climate data is 10,000 years of daily data representing the variability of the long-term climate at a location generated. The primary purpose of the stochastic climate data is to be used as input data for water modelling to analysis water related outcomes of river basins under long-term climate and inform the development of water policies, planning and strategies for water management. Climate data is a fundamental input dataset required for water modelling. Rainfall and potential evapotranspiration are the two main types of climate required for the types of water models used for water planning. Temperature data is used in some of the water models (in particular for snowmelt modelling, water demand modelling). Climate data in daily temporal resolution is used as input data to water models of varying types, purposes, and complexity. The water models transform this input data to produce a range of water related modelled data. Stochastic climate data has been generated based on observed climate dataset combined with paleo-climatic information. The observed data is downloaded from the SILO data-base of Australian climate data (<https://www.longpaddock.qld.gov.au/silo/>), which has climate data from 1889-present based on instrumental records at thousands of climate stations. The stochastic data are 10,000-year daily data sets of each climate data at different climate stations.

Status

On going

Spatial representation type

textTable

Spatial reference system

Code identifying the spatial reference system

4283

Spatial resolution

1 km

Additional information source

Raw data series commenced 01/01/0000 to 31/12/9999

Topic category

Keyword set	
keyword value	WATER
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	150.2
East bounding longitude	151.5
North bounding latitude	-34.23
South bounding latitude	-33.35
NSW Place Name	Greater Sydney
Vertical extent information	
Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
Temporal extent	
Begin position	0001-01-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	As needed
Contact info	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Lineage

The stochastic data are 10,000-year daily data sets at different climate stations, which were generated using observed or derived data sets combined with palaeo-logical climate data information. This work was undertaken by researchers at University of Adelaide and University of Newcastle and used in Regional Water Strategies. The stochastic data were generated region by region with spatial and temporal consistency of the data between regions maintained. Stochastic datasets were generated using the observed climate data and paleo-climatic information. The observed and derived data is downloaded from the SILO data-base of Australian climate data (<https://www.longpaddock.qld.gov.au/silo/>), which has climate data from 1889-present.

Limitations on public access

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Metadata point of contact

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Responsible party role	pointOfContact

Metadata date 2024-08-20T20:59:31.682400

Metadata language