

Title Water Modelling-Stochastic Climate Data-Greater Sydney-Silo Station (vi of xi) ID 068001-068020

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 (068001-068020) houses Silo Station IDs:

- 068002 - AVON DAM
- 068003 - BERRY MASONIC VILLAGE
- 068007 - CAMDEN (BROWNLOW HILL)
- 068008 - BUNDANOON (BALLYMENA)
- 068009 - BURRAWANG (RANGE STREET)
- 068013 - MENANGLE
- 068016 - CATARACT DAM
- 068018 - CORDEAUX NO.1 DAM

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

[068002_AVON DAM MWSDB_FAO56](#)

Name: 068002_AVON DAM MWSDB_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 068002 (AVON DAM MWSDB); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068002_AVON DAM MWSDB_Mlake](#)

Name: 068002_AVON DAM MWSDB_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 068002 (AVON DAM MWSDB); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068002_AVON DAM MWSDB_Mwet](#)

Name: 068002_AVON DAM MWSDB_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 068002 (AVON DAM MWSDB); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068002_AVON DAM MWSDB_Rain](#)

Name: 068002_AVON DAM MWSDB_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068002 (AVON DAM MWSDB); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068003_BERRY
MASONIC
VILLAGE_Rain](#)

Name: 068003_BERRY MASONIC VILLAGE_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068003 (BERRY MASONIC VILLAGE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068007_CAMDEN
\(BROWNLOW
HILL\)_FAO56](#)

Name: 068007_CAMDEN (BROWNLOW HILL)_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 068007 (CAMDEN (BROWNLOW HILL)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068007_CAMDEN
\(BROWNLOW
HILL\)_Mlake](#)

Name: 068007_CAMDEN (BROWNLOW HILL)_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 068007 (CAMDEN (BROWNLOW HILL)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068007_CAMDEN
\(BROWNLOW
HILL\)_Rain](#)

Name: 068007_CAMDEN (BROWNLOW HILL)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068007 (CAMDEN (BROWNLOW HILL)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068007_CAMDEN
\(BROWNLOW
HILL\)_Mwet](#)

Name: 068007_CAMDEN (BROWNLOW HILL)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 068007 (CAMDEN (BROWNLOW HILL)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068008_BUNDANOON
\(BALLYMENA\)_FAO56](#)

Name: 068008_BUNDANOON (BALLYMENA)_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 068008 (BUNDANOON (BALLYMENA)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068008_BUNDANOON
\(BALLYMENA\)_Mlake](#)

Name: 068008_BUNDANOON (BALLYMENA)_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 068008 (BUNDANOON (BALLYMENA)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068008_BUNDANOON \(BALLYMENA\)_Rain](#)

Name: 068008_BUNDANOON (BALLYMENA)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068008 (BUNDANOON (BALLYMENA)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068008_BUNDANOON \(BALLYMENA\)_Mwet](#)

Name: 068008_BUNDANOON (BALLYMENA)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 068008 (BUNDANOON (BALLYMENA)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068009_BURRAWANG \(RANGE STREET\)_FA056](#)

Name: 068009_BURRAWANG (RANGE STREET)_FA056

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

Description:

Stochastic FA056 data for 3250 replicates for 068009 (BURRAWANG (RANGE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068009_BURRAWANG \(RANGE STREET\)_Mlake](#)

Name: 068009_BURRAWANG (RANGE STREET)_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 068009 (BURRAWANG (RANGE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068009_BURRAWANG \(RANGE STREET\)_Rain](#)

Name: 068009_BURRAWANG (RANGE STREET)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068009 (BURRAWANG (RANGE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068009_BURRAWANG \(RANGE STREET\)_Mwet](#)

Name: 068009_BURRAWANG (RANGE STREET)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 068009 (BURRAWANG (RANGE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068013_MENANGLE JMAI_Rain](#)

Name: 068013_MENANGLE JMAI_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068013 (MENANGLE JMAI); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068013_MENANGLE
JMAI_FAO56](#)

Name: 068013_MENANGLE JMAI_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 068013 (MENANGLE JMAI); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068013_MENANGLE
JMAI_Mlake](#)

Name: 068013_MENANGLE JMAI_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 068013 (MENANGLE JMAI); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068013_MENANGLE
JMAI_Mwet](#)

Name: 068013_MENANGLE JMAI_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 068013 (MENANGLE JMAI); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068016_CATARACT
DAM_Rain](#)

Name: 068016_CATARACT DAM_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068016 (CATARACT DAM); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068016_CATARACT
DAM_Mlake](#)

Name: 068016_CATARACT DAM_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 068016 (CATARACT DAM); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068016_CATARACT
DAM_Mwet](#)

Name: 068016_CATARACT DAM_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 068016 (CATARACT DAM); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068018_CORDEAUX
NO.1 DAM_FAO56](#)

Name: 068018_CORDEAUX NO.1 DAM_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 068018 (CORDEAUX NO.1 DAM);

each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068018_CORDEAUX
NO.1 DAM_Mlake](#)

Name: 068018_CORDEAUX NO.1 DAM_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 068018 (CORDEAUX NO.1 DAM); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068018_CORDEAUX
NO.1 DAM_Rain](#)

Name: 068018_CORDEAUX NO.1 DAM_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 068018 (CORDEAUX NO.1 DAM); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[068018_CORDEAUX
NO.1 DAM_Mwet](#)

Name: 068018_CORDEAUX NO.1 DAM_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 068018 (CORDEAUX NO.1 DAM); 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 c96a6a99-acc2-4547-8fc3-1f6acb3f001e

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/c96a6a99-acc2-4547-8fc3-1f6acb3f001e>

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

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 date 2024-08-20T21:04:27.778870

Metadata language