Title	Water Modelling-Stochastic Climate Data-Greater Sydney-Silo Station (xi of xi) ID 070101-070330

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 (070101-070330) houses Silo Station IDs:

- 070105 - MOUNT FAIRY (MERIGAN)
- 070119 - BIG HILL (GLEN DUSK)
- 070124 - RICHLANDS (BOUVERIE)
- 070131 - WOODHOUSELEE (LEESTON)
- 070135 - MUMMELL (KANGAROOBIE)
- 070143 - BRAYTON (LONGREACH)
- 070144 - TARALGA (CIRCLE C)
- 070147 - GOULBURN (HILLWOOD)
- 070183 - WINDELLIMA (BUDJONG)
- 070261 - JERRABATTGULLA (GILSTON)
- 070263 - GOULBURN TAFE
- 070330 - GOULBURN AIRPORT

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

070105_MOUNT FAIRY (MERIGAN)_FAO56

Name: 070105_MOUNT FAIRY (MERIGAN)_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 070105 (MOUNT FAIRY (MERIGAN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070105_MOUNT FAIRY (MERIGAN)_Mwet

Name: 070105_MOUNT FAIRY (MERIGAN)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 070105 (MOUNT FAIRY (MERIGAN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070105_MOUNT FAIRY (MERIGAN)_Rain

Name: 070105_MOUNT FAIRY (MERIGAN)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070105 (MOUNT FAIRY (MERIGAN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070119_BIG HILL (GLEN DUSK)_Rain

Name: 070119_BIG HILL (GLEN DUSK)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070119 (BIG HILL (GLEN DUSK)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070124_RICHLANDS (BOUVERIE)_Rain

Name: 070124_RICHLANDS (BOUVERIE)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070124 (RICHLANDS (BOUVERIE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070131_WOODHOUSELEE (LEESTON)_Rain

Name: 070131_WOODHOUSELEE (LEESTON)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070131 (WOODHOUSELEE (LEESTON)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070135_MUMMELL (KANGAROOBIE)_Rain

Name: 070135_MUMMELL (KANGAROOBIE)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070135 (MUMMELL (KANGAROOBIE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070143_BRAYTON (LONGREACH)_FAO56

Name: 070143_BRAYTON (LONGREACH)_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 070143 (BRAYTON (LONGREACH)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070143_BRAYTON (LONGREACH)_Mlake

Name: 070143_BRAYTON (LONGREACH)_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 070143 (BRAYTON (LONGREACH)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070143_BRAYTON (LONGREACH)_Rain

Name: 070143_BRAYTON (LONGREACH)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070143 (BRAYTON (LONGREACH)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

070143_BRAYTON (LONGREACH)_Mwet

Name: 070143_BRAYTON (LONGREACH)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 070143 (BRAYTON (LONGREACH)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070144_TARALGA (CIRCLE C)_Rain

Name: 070144_TARALGA (CIRCLE C)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070144 (TARALGA (CIRCLE C)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070147_GOULBURN (HILLWOOD)_FAO56

Name: 070147_GOULBURN (HILLWOOD)_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 070147 (GOULBURN (HILLWOOD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070147_GOULBURN (HILLWOOD)_Rain

Name: 070147_GOULBURN (HILLWOOD)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070147 (GOULBURN (HILLWOOD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070147_GOULBURN (HILLWOOD)_Mwet

Name: 070147_GOULBURN (HILLWOOD)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 070147 (GOULBURN (HILLWOOD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070183_WINDELLIMA (BUDJONG)_Rain

Name: 070183_WINDELLIMA (BUDJONG)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070183 (WINDELLIMA (BUDJONG)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070183_WINDELLIMA (BUDJONG)_FAO56

Name: 070183_WINDELLIMA (BUDJONG)_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 070183 (WINDELLIMA (BUDJONG)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070183_WINDELLIMA (BUDJONG)_Mwet

Name: 070183_WINDELLIMA (BUDJONG)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 070183 (WINDELLIMA (BUDJONG)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070261_JERRABATTGULLA (GILSTON)_FAO56

Name: 070261_JERRABATTGULLA (GILSTON)_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 070261 (JERRABATTGULLA (GILSTON)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070261_JERRABATTGULLA (GILSTON)_Rain

Name: 070261_JERRABATTGULLA (GILSTON)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 070261 (JERRABATTGULLA (GILSTON)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070261_JERRABATTGULLA (GILSTON)_Mlake

Name: 070261_JERRABATTGULLA (GILSTON)_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 070261 (JERRABATTGULLA (GILSTON)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070261_JERRABATTGULLA (GILSTON)_Mwet

Name: 070261_JERRABATTGULLA (GILSTON)_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 070261 (JERRABATTGULLA (GILSTON)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070263_GOULBURN TAFE_FAO56

Name: 070263_GOULBURN TAFE_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 070263 (GOULBURN TAFE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

070263_GOULBURN TAFE_Rain

Name: 070263_GOULBURN TAFE_Rain

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

	Description:
	Stochastic Rain data for 3250 replicates for 070263 (GOULBURN TAFE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.
	Function: download
070263_GOULBURN TAFE_Mlake	Name: 070263_GOULBURN TAFE_Mlake
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Stochastic Mlake data for 3250 replicates for 070263 (GOULBURN TAFE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.
	Function: download
070263_GOULBURN TAFE_Mwet	Name: 070263_GOULBURN TAFE_Mwet
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Stochastic Mwet data for 3250 replicates for 070263 (GOULBURN TAFE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.
	Function: download
070330_GOULBURN AIRPORT AWS_Rain	Name: 070330_GOULBURN AIRPORT AWS_Rain
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Stochastic Rain data for 3250 replicates for 070330 (GOULBURN AIRPORT AWS); 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	64622273-05a0-4efb-8b67-f9d2a61ed84e

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/64622273-05a0-4efb-8b67-f9d2a61ed84e

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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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

2024-08-20T21:04:12.473948

Metadata language