Title	Water Modelling-Stochastic Climate Data-Greater Sydney-Silo Station (ix of xi) ID 069001-070000

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 (069001-070000) houses Silo Station IDs: • 069006 - BETTOWYND (CONDRY) • 069010 - BRAIDWOOD (WALLACE STREET) • 069016 - MILTON (SARAH CLAYDON VILLAGE) • 069041 - CHARLEYONG • 069049 - NERRIGA COMPOSITE • 069062 - SNOWBALL • 069132 - BRAIDWOOD RACECOURSE 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
069006_BETTOWYND (CONDRY)_Rain	Name: 069006_BETTOWYND (CONDRY)_Rain Protocol: WWW:DOWNLOAD-1.0-http--download Description: Stochastic Rain data for 3250 replicates for 069006 (BETTOWYND (CONDRY)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
069010_BRAIDWOOD (WALLACE STREET)_FAO56	Name: 069010_BRAIDWOOD (WALLACE STREET)_FAO56 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Stochastic FAO56 data for 3250 replicates for 069010 (BRAIDWOOD (WALLACE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
069010_BRAIDWOOD (WALLACE STREET)_Mlake	Name: 069010_BRAIDWOOD (WALLACE STREET)_Mlake Protocol: WWW:DOWNLOAD-1.0-http--download Description: Stochastic Mlake data for 3250 replicates for 069010 (BRAIDWOOD (WALLACE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
069010_BRAIDWOOD (WALLACE STREET)_Mwet	Name: 069010_BRAIDWOOD (WALLACE STREET)_Mwet Protocol: WWW:DOWNLOAD-1.0-http--download Description:

Stochastic Mwet data for 3250 replicates for 069010 (BRAIDWOOD (WALLACE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069010_BRAIDWOOD (WALLACE STREET)_Rain

Name: 069010_BRAIDWOOD (WALLACE STREET)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 069010 (BRAIDWOOD (WALLACE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069016_MILTON (SARAH CLAYDON VILLAGE)_Rain

Name: 069016_MILTON (SARAH CLAYDON VILLAGE)_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 069016 (MILTON (SARAH CLAYDON VILLAGE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069041_CHARLEYONG_FAO56

Name: 069041_CHARLEYONG_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 069041 (CHARLEYONG); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069041_CHARLEYONG_Mlake

Name: 069041_CHARLEYONG_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 069041 (CHARLEYONG); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069041_CHARLEYONG_Rain

Name: 069041_CHARLEYONG_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 069041 (CHARLEYONG); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069041_CHARLEYONG_Mwet

Name: 069041_CHARLEYONG_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 069041 (CHARLEYONG); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069049_NERRIGA COMPOSITE_FAO56

Name: 069049_NERRIGA COMPOSITE_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 069049 (NERRIGA COMPOSITE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069049_NERRIGA COMPOSITE_Mlake

Name: 069049_NERRIGA COMPOSITE_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 069049 (NERRIGA COMPOSITE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069049_NERRIGA COMPOSITE_Rain

Name: 069049_NERRIGA COMPOSITE_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 069049 (NERRIGA COMPOSITE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069049_NERRIGA COMPOSITE_Mwet

Name: 069049_NERRIGA COMPOSITE_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 069049 (NERRIGA COMPOSITE); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069062_SNOWBALL_Rain

Name: 069062_SNOWBALL_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 069062 (SNOWBALL); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

069132_BRAIDWOOD RACECOURSE AWS_Rain

Name: 069132_BRAIDWOOD RACECOURSE AWS_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 069132 (BRAIDWOOD RACECOURSE 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	97338c2e-70e0-4fa7-9a85-89a57a6bad28
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/97338c2e-70e0-4fa7-9a85-89a57a6bad28
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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Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Metadata date

2024-08-20T21:05:16.167801

Metadata language