Title	Water Modelling-Palaeo Stochastic Climate Data-Greater Sydney-Silo Station (vi of xi) ID 068001-068020
Abstract	The palaeo 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 palaeo 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 <u>NSW Water Hub which has an online</u> <u>forum</u> you can join.
Resource locator	
<u>Data Quality</u>	Name: Data Quality Statement
<u>Statement</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data quality statement
	Function: download
068002_AVON DAM	Name: 068002_AVON DAM MWSDB_FAO56
MWSDB_FA056	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068002_AVON DAM MWSDB_Mlake
<u>MWSDB_Mlake</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068002_AVON DAM MWSDB_Mwet
MWSDB_Mwet	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068002_AVON DAM MWSDB_Rain
<u>MWSDB_Rain</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:

	Paleo-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	Name: 068003_BERRY MASONIC VILLAGE_Rain
MASONIC VILLAGE_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068007_CAMDEN (BROWNLOW HILL)_FAO56
(BROWNLOW HILL)_FA056	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068007_CAMDEN (BROWNLOW HILL)_Rain
(BROWNLOW HILL)_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>HILL)_Kalli</u>	Description:
	Paleo-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	Name: 068007_CAMDEN (BROWNLOW HILL)_Mlake
<u>(BROWNLOW</u> <u>HILL)_Mlake</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>IIILL/_WidKC</u>	Description:
	Paleo-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	Name: 068007_CAMDEN (BROWNLOW HILL)_Mwet
(BROWNLOW HILL)_Mwet	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068008_BUNDANOON (BALLYMENA)_FAO56
<u>(BALLYMENA)_FA056</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068008_BUNDANOON (BALLYMENA)_Mlake

	<u>(BALLYMENA)_Mlake</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
		Description:
		Paleo-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	Name: 068008_BUNDANOON (BALLYMENA)_Rain
	(BALLYMENA)_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
		Description:
		Paleo-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	Name: 068008_BUNDANOON (BALLYMENA)_Mwet
	(BALLYMENA)_Mwet	Protocol: WWW:DOWNLOAD-1.0-httpdownload
		Description:
		Paleo-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	Name: 068009_BURRAWANG (RANGE STREET)_FAO56
	<u>(RANGE</u> <u>STREET)_FA056</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
		Description:
		Paleo-Stochastic FAO56 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	Name: 068009_BURRAWANG (RANGE STREET)_Rain
	<u>(RANGE</u> <u>STREET)_Rain</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
		Description:
		Paleo-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	Name: 068009_BURRAWANG (RANGE STREET)_Rain
	<u>(RANGE</u> STREET)_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	<u> </u>	Description:
		Paleo-Stochastic Rain data for 3250 replicates for 068009 (BURRAWANG (RANGE STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.
<u>(</u>		Function: download
	068009_BURRAWANG	Name: 068009_BURRAWANG (RANGE STREET)_Mwet
	(RANGE STREET)_Mwet	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	<u>street/_mmet</u>	Description:
		Paleo-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	Name: 068013_MENANGLE JMAI_Rain
JMAI_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068013_MENANGLE JMAI_FAO56
JMAI_FA056	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068013_MENANGLE JMAI_Rain
JMAI_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068013_MENANGLE JMAI_Mwet
JMAI_Mwet	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068016_CATARACT DAM_Rain
DAM_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068016_CATARACT DAM_Mlake
DAM_Mlake	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068016_CATARACT DAM_Mwet
DAM_Mwet	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068018 CORDEAUX NO.1 DAM FAO56
NO.1 DAM_FA056	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068018_CORDEAUX NO.1 DAM_Rain
NO.1 DAM_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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	Name: 068018_CORDEAUX NO.1 DAM_Mwet
NO.1 DAM_Mwet	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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
068018_CORDEAUX	Name: 068018_CORDEAUX NO.1 DAM_Rain
NO.1 DAM_Rain	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Paleo-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
Map View for data	Name: Map View for data download
<u>download</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	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 ide	entifier
Code	8ff642c3-9f31-407c-ac2f-8543cd1eb4dc
Presentation form	Table digital
Edition	1.0
Dataset language	English
Metadata standard	

Name	150 19115
Edition	2016
Dataset URI	<u>https://datasets.seed.nsw.gov.au/dataset/8ff642c3-9f31-407c-ac2f- 8543cd1eb4dc</u>
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 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 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 sy	vstem
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	2024-08-20T21:36:58.287815
Metadata language	