Title

Water Modelling-Palaeo Stochastic Climate Data-Greater Sydney-Silo Station (i of xi) ID 061001-063000

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 (061001-063000) houses Silo Station IDs:

- 061030 - HOWES VALLEY (KINDARUN)
- 061119 - WISEMANS FERRY (OLD PO)
- 061164 - LAGUNA (MURRAYS RUN)
- 061211 - COLO HEIGHTS (MOUNTAIN PINES)
- 061215 - RYLSTONE (KELGOOLA)
- 061217 - ST ALBANS (ESPIE ST)
- 061309 - MILBRODALE (HILLSDALE)
- 061334 - GLEN ALICE
- 061351 - PEATS RIDGE (WARATAH ROAD)
- 062029 - ILFORD (TARA)

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

061030_HOWES VALLEY (KINDARUN)_Mwet

Name: 061030_HOWES VALLEY (KINDARUN)_Mwet

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

Description:

Paleo-Stochastic Mwet data for 3250 replicates for 061030 (HOWES VALLEY (KINDARUN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061030_HOWES VALLEY (KINDARUN)_Rain

Name: 061030_HOWES VALLEY (KINDARUN)_Rain

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

Description:

Paleo-Stochastic Rain data for 3250 replicates for 061030 (HOWES VALLEY (KINDARUN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061119_WISEMANS FERRY (OLD PO)_FAO56

Name: 061119_WISEMANS FERRY (OLD PO)_FAO56

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

Description:

Paleo-Stochastic FAO56 data for 3250 replicates for 061119 (WISEMANS FERRY (OLD PO)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061119_WISEMANS

Name: 061119_WISEMANS FERRY (OLD PO)_Mlake

FERRY (OLD PO)_Mlake	Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Mlake data for 3250 replicates for 061119 (WISEMANS FERRY (OLD PO)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061119_WISEMANS FERRY (OLD PO)_Mwet	Name: 061119_WISEMANS FERRY (OLD PO)_Mwet Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Mwet data for 3250 replicates for 061119 (WISEMANS FERRY (OLD PO)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061119_WISEMANS FERRY (OLD PO)_Rain	Name: 061119_WISEMANS FERRY (OLD PO)_Rain Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Rain data for 3250 replicates for 061119 (WISEMANS FERRY (OLD PO)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061164_LAGUNA (MURRAYS RUN)_Rain	Name: 061164_LAGUNA (MURRAYS RUN)_Rain Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Rain data for 3250 replicates for 061164 (LAGUNA (MURRAYS RUN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061211_COLO HEIGHTS (MOUNTAIN PINES)_FAO56	Name: 061211_COLO HEIGHTS (MOUNTAIN PINES)_FAO56 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic FAO56 data for 3250 replicates for 061211 (COLO HEIGHTS (MOUNTAIN PINES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061211_COLO HEIGHTS (MOUNTAIN PINES)_Mwet	Name: 061211_COLO HEIGHTS (MOUNTAIN PINES)_Mwet Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Mwet data for 3250 replicates for 061211 (COLO HEIGHTS (MOUNTAIN PINES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061211_COLO HEIGHTS (MOUNTAIN PINES)_Mlake	Name: 061211_COLO HEIGHTS (MOUNTAIN PINES)_Mlake Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Mlake data for 3250 replicates for 061211 (COLO HEIGHTS (MOUNTAIN PINES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061211_COLO HEIGHTS (MOUNTAIN PINES)_Rain

Name: 061211_COLO HEIGHTS (MOUNTAIN PINES)_Rain

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

Description:

Paleo-Stochastic Rain data for 3250 replicates for 061211 (COLO HEIGHTS (MOUNTAIN PINES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061215_RYLSTONE (KELGOOLA)_Rain

Name: 061215_RYLSTONE (KELGOOLA)_Rain

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

Description:

Paleo-Stochastic Rain data for 3250 replicates for 061215 (RYLSTONE (KELGOOLA)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061217_ST ALBANS (ESPIE ST)_FAO56

Name: 061217_ST ALBANS (ESPIE ST)_FAO56

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

Description:

Paleo-Stochastic FAO56 data for 3250 replicates for 061217 (ST ALBANS (ESPIE ST)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061217_ST ALBANS (ESPIE ST)_Rain

Name: 061217_ST ALBANS (ESPIE ST)_Rain

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

Description:

Paleo-Stochastic Rain data for 3250 replicates for 061217 (ST ALBANS (ESPIE ST)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061217_ST ALBANS (ESPIE ST)_Mlake

Name: 061217_ST ALBANS (ESPIE ST)_Mlake

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

Description:

Paleo-Stochastic Mlake data for 3250 replicates for 061217 (ST ALBANS (ESPIE ST)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061217_ST ALBANS (ESPIE ST)_Mwet

Name: 061217_ST ALBANS (ESPIE ST)_Mwet

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

Description:

Paleo-Stochastic Mwet data for 3250 replicates for 061217 (ST ALBANS (ESPIE ST)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

061309_MILBRODALE (HILLSDALE)_Rain

Name: 061309_MILBRODALE (HILLSDALE)_Rain

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

Description:

Paleo-Stochastic Rain data for 3250 replicates for 061309 (MILBRODALE

	(HILLSDALE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061334_GLEN ALICE_Rain	Name: 061334_GLEN ALICE_Rain Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Rain data for 3250 replicates for 061334 (GLEN ALICE); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061334_GLEN ALICE_Mwet	Name: 061334_GLEN ALICE_Mwet Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Mwet data for 3250 replicates for 061334 (GLEN ALICE); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061351_PEATS RIDGE (WARATAH ROAD)_Mwet	Name: 061351_PEATS RIDGE (WARATAH ROAD)_Mwet Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Mwet data for 3250 replicates for 061351 (PEATS RIDGE (WARATAH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
061351_PEATS RIDGE (WARATAH ROAD)_Mlake	Name: 061351_PEATS RIDGE (WARATAH ROAD)_Mlake Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Mlake data for 3250 replicates for 061351 (PEATS RIDGE (WARATAH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs. Function: download
062029_ILFORD (TARA)_Rain	Name: 062029_ILFORD (TARA)_Rain Protocol: WWW:DOWNLOAD-1.0-http--download Description: Paleo-Stochastic Rain data for 3250 replicates for 062029 (ILFORD (TARA)); 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	dca18f33-6837-4a2d-9916-1703a7060bd0

Presentation

Table digital

form	
Edition	1.0
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/dca18f33-6837-4a2d-9916-1703a7060bd0
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

2024-08-20T21:36:29.557305

Metadata language