Title	Water Modelling-Palaeo Stochastic Climate Data-Lower North Coast and Hunter
Abstract	This stochastic climate dataset relates to the **Lower North Coast and Hunter** region.

The stochastic data are 10,000-year daily data sets of rainfall and potential evapotranspiration generated using observed data sets combined with palaeo-logical climate data. This work has been undertaken by researchers at University of Adelaide and University of Newcastle and used in Regional Water Strategies.

The climate for each climate variable is uploaded as a single ZIP file, which includes three files:

1. a .csv file of daily climate data of 10,000 years (format: date, data; filename starts with station ID)
2. a pdf file of the meta data of the climate data describing the geographic location of the climate station, data type, period of observed data used for generating stochastic data, a location map.
3. a pdf file of the quality assurance information.

The climate variables include one or more of the following: rainfall, evapotranspiration (Mwet: Morton's wet area potential evapotranspiration, Mlake: Morton's lake evaporation, Penman-Monteith reference evapotranspiration (FAO56)), Maximum temperature, Minimum temperature.

Note: Within each ZIP file, the number seen within the filename i.e. 9093_SILO_Rain.zip represents the Station ID Number 59093.

Resource locator

Data Quality Statement	Name: Data Quality Statement
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Data quality statement
	Function: download
Lower North Coast and Hunter zip Files	Name: Lower North Coast and Hunter zip Files
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Contains all of the Stochastic Climate Data files within the Lower North Coast and Hunter region.
	Note: Within each ZIP file, the number seen within the filename i.e. 59093_SILO_Rain.zip represents the Station ID Number 59093. The climate variables include one or more of the following: rainfall, evapotranspiration (Mwet: Morton's wet area potential evapotranspiration, Mlake: Morton's lake evaporation, Penman-Monteith reference evapotranspiration (FAO56)), Maximum temperature, Minimum temperature. Refer to the Metadata PDF file for full description.
	Function: download
Map View for data download by regions	Name: Map View for data download by regions
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	All the regions are shown in this map (ESRI Rest Map Service Format), and the data can be downloaded by clicking each region area/polygon.
	Function: download
Map View for Silo Stations	Name: Map View for Silo Stations
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	All the silo stations are shown in this map for the reference (ESRI Rest Map Service Format).

Unique resource identifier

Code	91ffa243-8846-436a-8007-bdf9f7933ae9

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/91ffa243-8846-436a-8007-bdf9f7933ae9

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	149.66
East bounding longitude	152.75
North bounding latitude	-33.4
South bounding latitude	-31.27
NSW Place Name	Lower North Coast and Hunter

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

2024-08-20T21:38:31.817430

Metadata language