

## Title

Water Modelling-Stochastic Climate Data-Greater Sydney-Silo Station (ii of xi)  
ID 063001-063070

## 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 (063001-063070) houses Silo Station IDs:

- 063009 - BLACKHEATH (LAWRENCE ST)
- 063012 - RUNNING STREAM (BROOKLYN)
- 063013 - BERAMBING
- 063028 - FAULCONBRIDGE (ST GEORGES CRESCENT)
- 063030 - OBERON (GINGKIN)
- 063033 - GURNANG STATE FOREST (OBERON (YOUNG ADULT CORRECTIONAL CENTRE))
- 063036 - OBERON (JENOLAN CAVES)
- 063039 - KATOOMBA (MURRI ST)
- 063043 - KURRAJONG HEIGHTS (BELLS LINE OF ROAD)
- 063044 - LAWSON (WILSON STREET)
- 063049 - LOWTHER PARK
- 063062 - LITHGOW (NEWNES FOREST CENTRE)

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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

### [063009\\_BLACKHEATH \(LAWRENCE ST\)\\_Rain](#)

Name: 063009\_BLACKHEATH (LAWRENCE ST)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063009 (BLACKHEATH (LAWRENCE ST)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

### [063012\\_RUNNING STREAM \(BROOKLYN\)\\_Rain](#)

Name: 063012\_RUNNING STREAM (BROOKLYN)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063012 (RUNNING STREAM (BROOKLYN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

### [063013\\_BERAMBING\\_Rain](#)

Name: 063013\_BERAMBING\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063013 (BERAMBING); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063028\\_FAULCONBRIDGE  
\(ST GEORGES  
CRESCENT\)\\_Mwet](#)

Name: 063028\_FAULCONBRIDGE (ST GEORGES CRESCENT)\_Mwet  
Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Stochastic Mwet data for 3250 replicates for 063028 (FAULCONBRIDGE (ST GEORGES CRESCENT)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063028\\_FAULCONBRIDGE  
\(ST GEORGES  
CRESCENT\)\\_Rain](#)

Name: 063028\_FAULCONBRIDGE (ST GEORGES CRESCENT)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063028 (FAULCONBRIDGE (ST GEORGES CRESCENT)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063030\\_OBERON  
\(GINGKIN\)\\_Rain](#)

Name: 063030\_OBERON (GINGKIN)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063030 (OBERON (GINGKIN)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063033\\_GURNANG STATE  
FOREST \(OBERON  
\(YOUNG ADULT  
CORRECTIONAL  
CENTRE\)\)\\_Mwet](#)

Name: 063033\_GURNANG STATE FOREST (OBERON (YOUNG ADULT CORRECTIONAL CENTRE))\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 063033 GURNANG STATE FOREST (OBERON (YOUNG ADULT CORRECTIONAL CENTRE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063033\\_GURNANG STATE  
FOREST \(OBERON  
\(YOUNG ADULT  
CORRECTIONAL  
CENTRE\)\)\\_Rain](#)

Name: 063033\_GURNANG STATE FOREST (OBERON (YOUNG ADULT CORRECTIONAL CENTRE))\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063033 (GURNANG STATE FOREST (OBERON (YOUNG ADULT CORRECTIONAL CENTRE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063036\\_OBERON  
\(JENOLAN  
CAVES\)\\_FA056](#)

Name: 063036\_OBERON (JENOLAN CAVES)\_FA056

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

Description:

Stochastic FA056 data for 3250 replicates for 063036 (OBERON (JENOLAN CAVES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063036\\_OBERON  
\(JENOLAN CAVES\)\\_Mlake](#)

Name: 063036\_OBERON (JENOLAN CAVES)\_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 063036 (OBERON (JENOLAN

CAVES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063036\\_OBERON  
\(JENOLAN CAVES\)\\_Rain](#)

Name: 063036\_OBERON (JENOLAN CAVES)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063036 (OBERON (JENOLAN CAVES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063036\\_OBERON  
\(JENOLAN CAVES\)\\_Mwet](#)

Name: 063036\_OBERON (JENOLAN CAVES)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 063036 (OBERON (JENOLAN CAVES)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063039\\_KATOOMBA  
\(MURRI ST\)\\_Rain](#)

Name: 063039\_KATOOMBA (MURRI ST)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063039 (KATOOMBA (MURRI ST)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063039\\_KATOOMBA  
\(MURRI ST\)\\_Mwet](#)

Name: 063039\_KATOOMBA (MURRI ST)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 063039 (KATOOMBA (MURRI ST)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063043\\_KURRAJONG  
HEIGHTS \(BELLS LINE OF  
ROAD\)\\_Rain](#)

Name: 063043\_KURRAJONG HEIGHTS (BELLS LINE OF ROAD)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063043 (KURRAJONG HEIGHTS (BELLS LINE OF ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063043\\_KURRAJONG  
HEIGHTS \(BELLS LINE OF  
ROAD\)\\_Mwet](#)

Name: 063043\_KURRAJONG HEIGHTS (BELLS LINE OF ROAD)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 063043 (KURRAJONG HEIGHTS (BELLS LINE OF ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063044\\_LAWSON  
\(WILSON STREET\)\\_Rain](#)

Name: 063044\_LAWSON (WILSON STREET)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063044 (LAWSON (WILSON STREET)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063049\\_LOWATHER  
PARK\\_Rain](#)

Name: 063049\_LOWATHER PARK\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063049 (LOWATHER PARK); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063062\\_LITHGOW  
\(NEWNES FOREST  
CENTRE\)\\_Rain](#)

Name: 063062\_LITHGOW (NEWNES FOREST CENTRE)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 063062 (LITHGOW (NEWNES FOREST CENTRE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[063062\\_LITHGOW  
\(NEWNES FOREST  
CENTRE\)\\_Mwet](#)

Name: 063062\_LITHGOW (NEWNES FOREST CENTRE)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 063062 (LITHGOW (NEWNES FOREST CENTRE)); 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 54b80537-3206-45b6-9e3c-462d543b9f04

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/54b80537-3206-45b6-9e3c-462d543b9f04>

Climate data is a fundamental input dataset required for water modelling.

<b>Purpose</b>	<p>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 (<a href="https://www.longpaddock.qld.gov.au/silo/">https://www.longpaddock.qld.gov.au/silo/</a>), 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.</p>
<b>Status</b>	On going
<b>Spatial representation type</b>	textTable
<b>Spatial reference system</b>	
Code identifying the spatial reference system	4283
<b>Spatial resolution</b>	1 km
<b>Additional information source</b>	Raw data series commenced 01/01/0000 to 31/12/9999
<b>Topic category</b>	

<b>Keyword set</b>	
keyword value	WATER
<b>Originating controlled vocabulary</b>	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
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
<b>Vertical extent information</b>	
Minimum value	-100
Maximum value	2228
<b>Coordinate reference system</b>	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
<b>Temporal extent</b>	
Begin position	0001-01-01
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	As needed
<b>Contact info</b>	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
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Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
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	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact

## Metadata point of contact

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
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Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact

**Metadata date** 2024-08-20T21:02:44.892655

**Metadata language**