

Title	Water Modelling-Stochastic Climate Data-Greater Sydney-Silo Station (iv of xi) ID 066001-067020
Abstract	<p>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.</p> <p>This particular Asset (066001-067020) houses Silo Station IDs:</p> <ul style="list-style-type: none"> <li>• 066047 - PENNANT HILLS (YARRARA ROAD)</li> <li>• 066063 - WAHROONGA RESERVOIR</li> <li>• 066124 - PARRAMATTA NORTH (MASONS DRIVE)</li> <li>• 066129 - BEECROFT</li> <li>• 067002 - CASTLEREAGH (CASTLEREAGH ROAD)</li> <li>• 067010 - GLENORIE (OLD NORTHERN RD)</li> <li>• 067014 - MAROOTA (OLD TELEGRAPH ROAD)</li> <li>• 067015 - BRINGELLY (MARYLAND)</li> <li>• 067019 - PROSPECT RESERVOIR</li> </ul> <hr/> <p>Note: If you would like to ask a question, make any suggestions, or tell us how you are using this dataset, please visit the <a href="#">NSW Water Hub which has an online forum</a> you can join.</p>
Resource locator	
<a href="#">Data Quality Statement</a>	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data quality statement</p> <p>Function: download</p>
<a href="#">066047_PENNANT HILLS (YARRARA ROAD)_Mwet</a>	<p>Name: 066047_PENNANT HILLS (YARRARA ROAD)_Mwet</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Stochastic Mwet data for 3250 replicates for 066047 (PENNANT HILLS (YARRARA ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.</p> <p>Function: download</p>
<a href="#">066047_PENNANT HILLS (YARRARA ROAD)_Rain</a>	<p>Name: 066047_PENNANT HILLS (YARRARA ROAD)_Rain</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Stochastic Rain data for 3250 replicates for 066047 (PENNANT HILLS (YARRARA ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.</p> <p>Function: download</p>
<a href="#">066063_WAHROONGA RESERVOIR_Rain</a>	<p>Name: 066063_WAHROONGA RESERVOIR_Rain</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Stochastic Rain data for 3250 replicates for 066063 (WAHROONGA RESERVOIR); each with 130 year daily timeseries; including metadata and quality assurance pdfs.</p> <p>Function: download</p>
<a href="#">066124_PARRAMATTA NORTH (MASONS DRIVE)_Rain</a>	<p>Name: 066124_PARRAMATTA NORTH (MASONS DRIVE)_Rain</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p>

Description:

Stochastic Rain data for 3250 replicates for 066124 (PARRAMATTA NORTH (MASON'S DRIVE)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[066129\\_BEECROFT\\_Rain](#)

Name: 066129\_BEECROFT\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 066129 (BEECROFT); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002\\_CASTLEREAGH  
\(CASTLEREAGH  
ROAD\)\\_FAO56](#)

Name: 067002\_CASTLEREAGH (CASTLEREAGH ROAD)\_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002\\_CASTLEREAGH  
\(CASTLEREAGH  
ROAD\)\\_Mlake](#)

Name: 067002\_CASTLEREAGH (CASTLEREAGH ROAD)\_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002\\_CASTLEREAGH  
\(CASTLEREAGH  
ROAD\)\\_Mwet](#)

Name: 067002\_CASTLEREAGH (CASTLEREAGH ROAD)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067002\\_CASTLEREAGH  
\(CASTLEREAGH  
ROAD\)\\_Rain](#)

Name: 067002\_CASTLEREAGH (CASTLEREAGH ROAD)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 067002 (CASTLEREAGH (CASTLEREAGH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010\\_GLENORIE \(OLD  
NORTHERN RD\)\\_FAO56](#)

Name: 067010\_GLENORIE (OLD NORTHERN RD)\_FAO56

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

Description:

Stochastic FAO56 data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010\\_GLENORIE \(OLD](#)

Name: 067010\_GLENORIE (OLD NORTHERN RD)\_Mlake

[NORTHERN RD\)\\_Mlake](#)

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

Description:

Stochastic Mlake data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010\\_GLENORIE \(OLD NORTHERN RD\)\\_Rain](#)

Name: 067010\_GLENORIE (OLD NORTHERN RD)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067010\\_GLENORIE \(OLD NORTHERN RD\)\\_Mwet](#)

Name: 067010\_GLENORIE (OLD NORTHERN RD)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 067010 (GLENORIE (OLD NORTHERN RD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014\\_MARROOTA \(OLD TELEGRAPH ROAD\)\\_FA056](#)

Name: 067014\_MARROOTA (OLD TELEGRAPH ROAD)\_FA056

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

Description:

Stochastic FA056 data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014\\_MARROOTA \(OLD TELEGRAPH ROAD\)\\_Mlake](#)

Name: 067014\_MARROOTA (OLD TELEGRAPH ROAD)\_Mlake

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

Description:

Stochastic Mlake data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014\\_MARROOTA \(OLD TELEGRAPH ROAD\)\\_Rain](#)

Name: 067014\_MARROOTA (OLD TELEGRAPH ROAD)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067014\\_MARROOTA \(OLD TELEGRAPH ROAD\)\\_Mwet](#)

Name: 067014\_MARROOTA (OLD TELEGRAPH ROAD)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 067014 (MARROOTA (OLD TELEGRAPH ROAD)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067015\\_BRINGELLY  
\(MARYLAND\)\\_Rain](#)

Name: 067015\_BRINGELLY (MARYLAND)\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 067015 (BRINGELLY (MARYLAND)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067015\\_BRINGELLY  
\(MARYLAND\)\\_Mwet](#)

Name: 067015\_BRINGELLY (MARYLAND)\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 067015 (BRINGELLY (MARYLAND)); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067019\\_PROSPECT  
RESERVOIR\\_Rain](#)

Name: 067019\_PROSPECT RESERVOIR\_Rain

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

Description:

Stochastic Rain data for 3250 replicates for 067019 (PROSPECT RESERVOIR); each with 130 year daily timeseries; including metadata and quality assurance pdfs.

Function: download

[067019\\_PROSPECT  
RESERVOIR\\_Mwet](#)

Name: 067019\_PROSPECT RESERVOIR\_Mwet

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

Description:

Stochastic Mwet data for 3250 replicates for 067019 (PROSPECT RESERVOIR); 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	2087aa1e-d0a8-4f79-895f-a0af3d90f3af
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Presentation form	Table digital
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Edition	1.0
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Dataset language	English
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## Metadata standard

Name	ISO 19115
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Edition	2016
Dataset URI	<a href="https://datasets.seed.nsw.gov.au/dataset/2087aa1e-d0a8-4f79-895f-a0af3d90f3af">https://datasets.seed.nsw.gov.au/dataset/2087aa1e-d0a8-4f79-895f-a0af3d90f3af</a>
Purpose	<p>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 (<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>
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	

<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
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

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 ( <a href="https://www.longpaddock.qld.gov.au/silo/">https://www.longpaddock.qld.gov.au/silo/</a> ), 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		
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 date	2024-08-20T20:59:31.682400		
Metadata language			