Title	Predicted Near Future Climate Change Impacts on the HGL of the ACT 2017 (2nd Ed)
Alternative title(s)	ACT_HGL_NFCC_2017

Abstract

This dataset supersedes all earlier versions of 'Predicted Near Future Climate Change Impacts on the HGL of the ACT'. It incorporates HGL boundary and management area edits based on updated soil landscape mapping for the ACT.

The focus of this dataset is climate change impacts in the Australian Capital Territory. It contains digital spatial data developed to assist in land management decision making in the ACT. The dataset contains an assessment of climate change impacts on 14 variables defined by the NARCliM (NSW/ACT Regional Climate Modelling) project for three selected regional climate projection ensembles (multimodel mean, CCCMA3.1-R2, ECHAM5-R3). Only near-future (1990-2009 to 2020-2039) projections were considered. Each variable was considered using annual and seasonal time periods. Field names in the dataset follow the following format:

Field name = MODEL_NARCliM VARIABLE_TIME PERIOD

Values for each element of the field name are summarised as follows:

MODEL (Near future - 1990-2009 to 2020-2039)
C – Consensus (NARCliM Multimodel Consensus Scenario)
W – Wetter (NARCliM CCCMA3.1-R2 Wetter Scenario)
D – Drier (NARCliM ECHAM5-R3 Drier Scenario)

NARCliM VARIABLE
FFDI – Forest fire danger index
FF50 – Forest fire danger index above 50
FFBC – Forest fire danger index bias corrected
FFBC50 – Forest fire danger index bias corrected above 50
PRAC – Precipitation
PRACBC – Precipitation bias corrected
TAME – Temp mean
TAMX – Temp max
TAMN – Temp min
TAMXBC – Temp max bias corrected
TAMNBC – Temp min bias corrected
TAMX35 – Temp max bias corrected over 35
TAMN2 – Temp min bias corrected below 2
WSSM – Wind speed

TIME PERIOD
A – Annual
D – DJF
M – MAM
J – JJA
S – SON

Hydrogeological landscape (HGL) unit boundaries developed as part of the broader ACT Hydrogeological Landscapes (HGL) Framework project where used to constrain the outputs for this climate change assessment in the ACT. In all, there are 25 HGL defined. A weighted mean was used to calculate values for each HGL unit based on the proportions of corresponding 10km gridded data from the NARCliM data set.

Spatial resolution for this dataset is 1:50 000.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Predicted Near Future Climate Change Impacts on the HGL of the ACT 2017 (2nd Ed) Function: download
Download Package - ACT HGL Predicted	Name: Download Package - ACT HGL Predicted Near Future Climate Change Impacts 2017

Near Future Climate Change Impacts 2017	Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data package containing ArcGIS spatial data for near-future climate change impact assessment based on ACT hydrogeological landscape (HGL) boundaries. Function: download

Unique resource identifier

Code	6abea3d2-0dfa-4572-ab76-f8e3af3aacb5

Presentation form	mapDigital
Edition	Second
Dataset language	eng

Metadata standard

Name	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata
Version	1.1

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/6abea3d2-0dfa-4572-ab76-f8e3af3aacb5
Purpose	This dataset was generated for the ACT Environment and Planning Directorate as a component of the ACT Hydrogeological Landscapes (HGL) Framework project. The focus of this project was to assess impacts of climate change on wetlands and on land degradation issues related to salinity and erosion in the ACT.
Status	completed

Spatial representation

Type	vector

Spatial reference system

Authority code	GDA94 / MGAZone 55
Code identifying the spatial reference system	28355

Equivalent scale	1:None
Additional information source	**Source datasets:** OEH: NSW/ACT Regional Climate Modelling (NARCliM); Hydrogeological Landscapes (HGL) of the Australian Capital Territory 2017 (ACT_HGL_2017).

Topic category

Keyword set

keyword value	CLIMATE-AND-WEATHER-Climate-change HAZARDS

	LAND-Use
	GEOSCIENCES-Hydrogeology
	GEOSCIENCES-Geomorphology
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	148.738
East bounding longitude	149.414
North bounding latitude	-35.933
South bounding latitude	-35.111
NSW Place Name	Australian Capital Territory

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	2017-04-01
End position	N/A

Dataset reference date

Date type	publication
Effective date	2017-05-22
Date type	revision
Effective date	2020-11-05

Resource maintenance

Maintenance and update frequency	None
Contact info	
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Full postal address	NSW
	Australia
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Telephone number	131555

Email address	data.broker@environment.nsw.gov.au
Responsible party role	pointOfContact

Lineage

Hydrogeological landscape (HGL) boundaries were used for this dataset. These used the following base data for delineation of map units: published 1:1 million, 1:250 000 and 1:100 000 geological mapping data (polygon); published 1:100 000 soil landscape data (polygon); soil profile data from the OEH SALIS database (point); and Digital Elevation Model (DEM) for the ACT and derivative products taken from the 30 and 10 metre DEM. The published and reconnaissance level mapping were combined and rationalised to create complete hydrogeological landscape classification (map unit) coverage for the entire ACT. NARCliM 10km gridded datasets was used to assign values to each HGL unit.

Limitations on public access

Scope	dataset

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
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Responsible party role	pointOfContact

Metadata point of contact

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Responsible party role	distributor

Metadata date

2017-05-23

Metadata language

eng