

Title	Hydrogeological Landscapes (HGL) of the Australian Capital Territory 2017 (Third Edition)
Alternative title(s)	ACT_HGL_2017
Abstract	<p><i>This dataset supersedes all earlier versions of 'Hydrogeological Landscapes (HGL) of the Australian Capital Territory'. It incorporates HGL boundary and management area edits based on updated soil landscape mapping for the ACT.</i></p> <p>The focus of this dataset is the Australian Capital Territory. It contains digital spatial data developed to assist in land management decision making in the ACT. The dataset contains hazard ratings for land salinity, stream salt load and stream EC as well as overall salinity hazard for each HGL unit. Information about landscape functions and appropriate salinity management strategies are also listed. Hyperlinks to full management descriptions for each HGL unit are provided. The Hydrogeological Landscape (HGL) concept provides a structure for understanding how differences in salinity are expressed across the landscape. A HGL spatially differentiates areas with similar salt stores and pathways for salt mobilisation. The process of delineating a HGL relies on the integration of a number of causative factors: geology, soils, slope, regolith thickness, and climate; an understanding of the different modes of salinity development; and the impacts of salinity within landscapes (land salinity, salt load and salt concentration in streams due to salt contributions from base flow and runoff). Information sources such as soil landscape maps, site characterisation, salinity occurrence maps, hydrogeological data, surface water and groundwater data are incorporated into standardised unit descriptions.</p> <p>Spatial resolution for this product is 1:50 000.</p>
Resource locator	
Data Quality Statement	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data quality statement for Hydrogeological Landscapes (HGL) of the Australian Capital Territory 2017 (Third Edition)</p> <p>Function: download</p>
Download Package - ACT HGL 2017	<p>Name: Download Package - ACT HGL 2017</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data package containing ArcGIS spatial data for ACT hydrogeological landscape (HGL) boundaries and salinity management areas, HGL report and individual HGL descriptions, hazard table and information on attributes and data sources.</p> <p>Function: download</p>
Connect to eSPADE	<p>Name: Connect to eSPADE</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>View this dataset and other soil-related datasets on eSPADE soil spatial viewer.</p> <p>Function: download</p>
ACTmapi - Soil and Hydrogeological Landscapes	<p>Name: ACTmapi - Soil and Hydrogeological Landscapes</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>ACTmapi is the ACT Government's interactive mapping service that provides a convenient and fast way to analyse ACT spatial data. This map contains spatial data relating to the soil landscapes and hydrogeological landscapes of the ACT.</p> <p>Function: download</p>

Unique resource identifier	
Code	35a9b7a8-ca59-40d1-ba5c-6fe66245c35f
Presentation form	Map digital
Edition	Third
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/35a9b7a8-ca59-40d1-ba5c-6fe66245c35f
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
Geometric Object Type	complex
Spatial reference system	
Code identifying the spatial reference system	4283
Equivalent scale	1:None
Additional information source	<p>Source datasets: OEH: Soil and Land Resources of the Australian Capital Territory (ACT); NSW Soil and Land Information System (SALIS); NSW / ACT Regional Climate Modelling (NARcliM); BIOCLIM 2009.</p> <p>ACT Environment and Planning Directorate: ACT admin dataset (ACT Districts; ACT Divisions; ACT Territory Border); ACT base data (multiple themes); ACT wetland data (multiple themes).</p> <p>Geoscience Australia: GEODATA TOPO 250K Series 3; 1:1 million Geology of Eastern Australia; Brindabella 1:100 000 Geological Map (8627); Canberra 1:100 000 Geological Map (8727); Canberra 1:250 000 Geological Map (SI/55-16); Michelago 1:100 000 Geological Map (8626); Tantangara 1:100 000 Geological Map (8626); 1 Second DSM and DEM elevation data – Shuttle Radar Topographic Mission (SRTM).</p> <p>Land and Property Information: New South Wales DTDB Landform Theme 50K Digital Terrain Models; New South Wales Digital Topographic Database DTDB.</p>
Topic category	

Keyword set	
keyword value	<p>WATER-Salinity</p> <p>GEOSCIENCES-Geology</p> <p>GEOSCIENCES-Hydrogeology</p> <p>GEOSCIENCES-Geomorphology</p> <p>HAZARDS</p> <p>SOIL</p> <p>LAND-Use</p>
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	
Resource maintenance	
Maintenance and update frequency	Irregular
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 hydrogeological landscape (HGL) mapping 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.

Limitations on public access

Scope dataset

DQ Topological Consistency

Effective date 2017-05-19

Explanation All polygons in the coverage are topologically correct and all polygons have been attributed. Data has been visually checked at applicable scales.

DQ Absolute External Positional Accuracy

Effective date 2017-05-19

Explanation The accuracy of the coverage varies across the mapping area as map polygon boundaries were derived from different sources. HGL boundaries derived from published and draft 1:100 000 scale mapping are generally accurate to 100 m. HGL boundaries derived from published 1:250 000 scale mapping are approximate and generally accurate to 250 m.

DQ Non Quantitative Attribute Correctness

Effective date 2017-05-19

Explanation All polygons are labelled with a hydrogeological landscape unit tag, and attributed with information relevant to salinity management. Attributes were checked as part of routine GIS capture quality assurance procedures, including a visual check of polygon tags against field data. During the fieldwork phase, regular meetings were held to discuss and review methods, processes and consistency in landscape interpretation and documentation.

Responsible party

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 <https://www.nsw.gov.au/departments-and-agencies/dcceew>

Responsible party role pointOfContact

Metadata point of contact

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Metadata date 2024-02-26T13:37:14.951299

Metadata language