Title	ACT wetland mapping, classification and assessment: November 2016 (Third Edition)
Alternative title(s)	ACT_Wetlands_Nov_2016
Abstract	This product is the result of wetland mapping, classification and an assessment of climate change impacts on wetlands in the ACT to determine their climate change vulnerability. It comprises two datasets: the classification (HGL_ACT_Wetland_Class_Nov_2016) and the assessment (HGL_ACT_Wetland_Assess_Nov_2016). The assessment uses the management areas developed in the ACT HGL framework project as planning units (Cowood et al. 2016 - Expansion of landscape characterisation methods within the Hydrogeological Landscape Framework: application in the Australian Capital Territory). Mapping of management areas allows for detailed hazard assessments to understand the patterns in the chosen variables, facilitating management within the HGL framework and consideration of landscape setting when identifying suitable locations to undertake management actions. The wetland mapping is a compilation of existing spatial layers and API validation, with classification as per the Australian National Aquatic Ecosystem Framework (AETG 2012). The wetland assessment uses the current (1990-2009) and near future (2020-2039) time periods from the NARCliM Project (Olson et al. 2014 - NARCliM Climatological Atlas. NARCliM Technical Note 4), but individually assesses consensus, wet-cool extreme and dry-hot extreme scenarios. Variables used in this assessment represent indicators of current anthropogenic pressure, future hydrological change in water sources and losses and future ecological change in vascular plant and amphibian communities. Statistical methods are used to group wetlands that are projected to experience similar levels of change in the future determining their climate change vulnerability and the principle components of change driving the variability. The variables are first attributed to the management areas across the ACT and then allocated to wetlands located within each management area. Hydrological change variables were refined for individual wetlands considering the unique water balance equations.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for ACT wetland mapping, classification and assessment: November 2016 (Third Edition) Function: download
Report: Wetland vulnerability to climate change in the ACT	Name: Report: Wetland vulnerability to climate change in the ACT Protocol: WWW:DOWNLOAD-1.0-http--download Description: This wetland assessment uses Management Areas developed in the ACT HGL Framework project as planning units. Function: download
Download Package - ACT HGL Wetland Classification and Assessment 2017	Name: Download Package - ACT HGL Wetland Classification and Assessment 2017 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data package containing ArcGIS spatial data for ACT wetland classification and assessment based on HGL management areas, condition and vulnerability reports, water balance equation conceptual models and management action list. Function: download

Unique resource identifier

Code	d4475f0d-4f62-46b7-8361-8df63731e6e7

Presentation form	mapDigital
Edition	Third
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/d4475f0d-4f62-46b7-8361-8df63731e6e7
Purpose	This data package 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:** ACT Environment and Planning Directorate: ACT_WAPO; ACT_WETLANDS; ACT_bogs; ACT_peatlands; ACT_RAMSARginini; aerial photography; vegetation subformation; vegetation assemblage. ACT Emergency Services Agency: Flood extent for Ginninderra Creek 1 in 50; Jerrabomberra Creek 1 in 100; Molonglo River 1 in 10; Queanbeyan River 1 in 100; Sullivans Creek 1 in 10; Tuggeranong Creek 1 in 10. OEH: Wetlands (WetlandsNSW, WetlandsMurrayDarlingBasin, WetlandsImportant, BogsandFensSnowyMountains, GWDependantEcosystems); Groundwater (GWFlowSystemsMBG); NARCliM 10km climate projections; vegetation condition; Hydrogeological Landscapes (HGL) of the Australian Capital Territory 2016 (ACT_HGL_2016); Management Areas for the Hydrogeological Landscapes (HGL) of the Australian Capital Territory 2016 (ACT_ManAreas_2016). Land and Property Information: Contour (Contours100m_P); Slope30mClasses_LCC_P.lyr; DTDB Landform Theme 50K Digital Terrain Models. Geoscience Australia: GEODATA TOPO 250K Series 3 (RiverStyles_P); 1:1 million Geology of Eastern Australia ; 1 Second DSM and DEM elevation data – Shuttle Radar Topographic Mission (SRTM); Regolith Weathering Intensity. BOM: Geofabric; GDE Atlas.

CSIRO:
MrVBF; MrRTF.

Australian Land Use and Management Classification;
Australian Soil Classification;
Peat mire spatial layer (Geoff Hope - ANU).

Topic category

Keyword set

keyword value	WATER-Wetlands ECOLOGY-Ecosystem HAZARDS LAND-Use
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	2016-11-05
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 data.broker@environment.nsw.gov.au
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Responsible party role	pointOfContact

Lineage

The wetland mapping and classification for the ACT used spatial data from ACT Environment and Planning Directorate and NSW Office of Environment and Heritage corporate data sets as stated in the associated ACT wetland mapping, classification and condition reporting (Cowood 2015 - ACT wetland mapping, classification and assessment of hydrological vulnerability; and Cowood et al. 2017 - Wetland vulnerability to climate change in the ACT).

Reporting was updated to represent the outputs of Stage 2 in December 2015.

Limitations on public access

Scope	dataset

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Full postal address	NSW Australia data.broker@environment.nsw.gov.au
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
Full postal address	NSW Australia data.broker@environment.nsw.gov.au
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Responsible party role	distributor

Metadata date	2017-05-23
Metadata language	eng