

Endangered Ecological Communities: Known sites within the Hunter, Central and Lower North Coast region of NSW

1. Abstract

Endangered Ecological Community sites (EECs) were extracted from the Greater Hunter Vegetation Mapping (GHM)* survey site database by the National Environmental Research Program (NERP) Environmental Decisions Hub at the University of Melbourne. This data was utilised in the modelling of the EECs across the Hunter, Central and Lower North Coast Region of New South Wales.

Further information on this work can be found in the technical report – Kujala H, Whitehead AL & Wintle BA (2015). *Excerpt from a report on the biodiversity prioritisation analysis: modelling species and threatened ecological plant communities in the Hunter, Central & Lower North Coast Region of New South Wales*, A report by the NERP Environmental Decisions Hub at The University of Melbourne, Melbourne Victoria.

*Sivertsen, D, Roff, A, Somerville, M, Thonell, J & Denholm, B 2011, Greater Hunter Native Vegetation Mapping Geodatabase Guide (Version 4.0), Internal report for the Office of Environment and Heritage, Department of Premier and Cabinet, Sydney, Australia.

2. Data Processing

- Survey records were obtained from the GHM database.
- Plant community types within this database were aligned with state and federally listed EECs
- Plant community types with associations to listed EECs were extracted
- Point features were attributed with EEC names the environmental variables utilised in the distribution modelling (Table 1)
- The final dataset is presented as a shapefile (ArcGIS v10.1), as well as other formats required by member Councils



PRODUCED BY:
The National
Environmental
Research Program
(NERP) Environmental
Decisions Hub at
the University of
Melbourne, for the
Hunter & Central
Coast Regional
Environmental
Management Strategy
(HCCREMS)

DATE: 2015

PURPOSE: This data contains the point locations of Endangered Ecological Communities within the Hunter, Central & Lower North Coast Region. This data was utilised to inform distribution modelling.

3. Dataset Attributes

TABLE 1: DATASET ATTRIBUTE DETAILS

FIELD NAME	DETAILS
tec	The types of the Endangered Ecological Community, includes: <ul style="list-style-type: none"> ■ Central Hunter Grey Box Ironbark Woodland In The NSW North Coast And Sydney Basin Bioregion ■ Central Hunter Ironbark Spotted Gum Grey Box Forest In The NSW North Coast And Sydney Basin Bioregion ■ Freshwater Wetlands On Coastal Floodplains Of The NSW North Coast Sydney Basin And South East Corner Bioregion ■ Grassy White Box Woodlands ■ Hunter Lowland Red Gum Forest In The Sydney Basin And NSW North Coast Bioregion ■ Hunter Valley Foothills Slaty Gum Woodland In The Sydney Basin Bioregion ■ Kincumber Scribbly Gum Forest In The Sydney Basin Bioregion ■ Kurri Sand Swamp Woodland In The Sydney Basin Bioregion ■ Littoral Rainforest In The NSW North Coast Sydney Basin And South East Corner Bioregion ■ Lower Hunter Spotted Gum Ironbark Forest In The Sydney Basin Bioregion ■ Lower Hunter Valley Dry Rainforest In The Sydney Basin And NSW North Coast Bioregion ■ Lowland Rainforest In NSW North Coast And Sydney Basin Bioregion ■ Lowland Rainforest On Floodplain In The NSW North Coast Bioregion ■ Pittwater And Wagstaffe Spotted Gum Forest In The Sydney Basin Bioregion ■ Ribbon Gum Mountain Gum Snow Gum Grassy Forest Woodland Of The New England Tableland Bioregion ■ River Flat Eucalypt Forest On Coastal Floodplains Of The NSW North Coast Sydney Basin And South East Corner Bioregion ■ Subtropical Coastal Floodplain Forest Of The NSW North Coast Bioregion ■ Swamp Oak Floodplain Forest Of The NSW North Coast Sydney Basin And South East Corner Bioregion ■ Swamp Sclerophyll Forest On Coastal Floodplains Of The NSW North Coast Sydney Basin And South East Corner Bioregion ■ Warkworth Sands Woodland In The Sydney Basin Bioregion ■ White Box Yellow Box Blakely's Red Gum Woodland
X2000Dry_s	The percentage of cells within a 2000 m radius dominated by dry sclerophyll forest
X2000Rainf	The percentage of cells within a 2000 m radius containing rainforest
altitude	The altitude of a cell (in metres) above sea level (m)
cold_temp	Mean temperature of the coldest period derived from ANUCLIM (C°)
final_veg	Keith formation vegetation categories derived from the Parsons Brinkerhoff and Greater Hunter vegetation mapping (Cockerill et al., 2013; Sivertsen et al., 2011)
hot_temp	Mean temperature of the hottest period derived from ANUCLIM (C°)
mean_rain	Mean annual rainfall derived from ANUCLIM (mm)
mean_temp	Mean annual temperature derived from ANUCLIM (C°)
northness	The degree to which the aspect of a cell is north (north = 1, south = -1)
rugg1000	Topographic ruggedness (standard deviation in elevation) in a 1000 m radius (m)
seasonal_r	Mean seasonal rainfall derived from ANUCLIM (mm)
slope	The slope of a cell (°)
soil	Digital Atlas of Australian Soils (CSIRO, 2014)
terr1000	Relative terrain position in a 1000 m radius
wetness	Compound topographic index

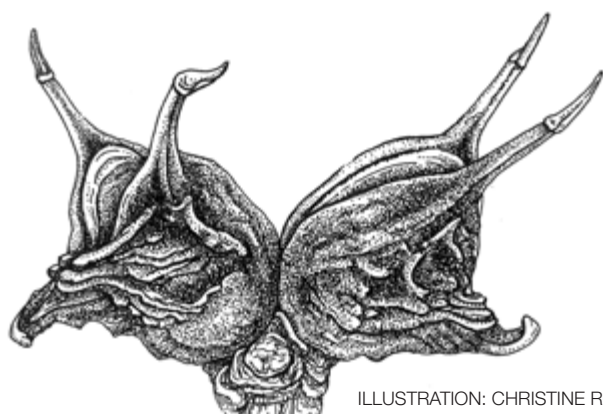


ILLUSTRATION: CHRISTINE ROCKLEY

4. Limitations and Considerations

This data represents a subset of Endangered Ecological Communities sites across the region, and should not be used to represent all EECs. The dataset could only include classified site data available at the time of production, therefore it is likely there will be some omissions.

4. ANZLIC Metadata Statement

GENERAL PROPERTIES	
File Identifier	3DD25E6C-175A-442D-9C16-318C93F7D34E
Hierarchy Level	dataset
Hierarchy Level Name	dataset
Standard Name	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information – Metadata
Standard Version	1.1
Date Stamp	2015-06-30
Resource Title	Endangered Ecological Communities: Known Sites within the Hunter, Central & Lower North Coast Region of NSW
KEY DATES AND LANGUAGES	
Date of creation	2015
Date of publication	2015-06
Metadata Language	eng
Metadata Character Set	utf8
Dataset Languages	eng
Dataset Character Set	utf8
METADATA CONTACT INFORMATION	
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JURISDICTIONS	
	Australia
	New South Wales

5. ANZLIC Metadata Statement continued

SEARCH WORDS	
	ECOLOGY-Community
	VEGETATION
THEMES AND CATEGORIES	
Topic Category	environment
STATUS AND MAINTENANCE	
Status	completed
REFERENCE SYSTEM	
Reference System	EPSG::28356 (GDA94 / MGA zone 56)
SPATIAL REPRESENTATION TYPE	
Spatial Representation Type	vector
ADDITIONAL EXTENTS – GEOGRAPHIC	
Identifier	aus
Identifier	NSW_CESSNOCK__C_
Identifier	NSW_DUNOGG__A_
Identifier	NSW_GLOUCESTER__A_
Identifier	NSW_GOSFORD__C_
Identifier	NSW_GREATER_TAREE__C_
Identifier	NSW_GREAT_LAKES__A_
Identifier	NSW_LAKE_MACQUARIE__C_
Identifier	NSW_MAITLAND__C_
Identifier	NSW_MERRIWA__A_
Identifier	NSW_MUSWELLBROOK__A_
Identifier	NSW_MURRURUNDI__A_
Identifier	NSW_NEWCASTLE__C_
Identifier	NSW_PORT_STEPHENS__A_
Identifier	NSW_SCONE__A_
Identifier	NSW_SINGLETON__A_
Identifier	NSW_WYONG__A_

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