Title	Assessment of Grey Box Grey Gum Wet Sclerophyll Forest TEC on NSW Crown Forest Estate
Alternative title(s)	Grey Box Grey Gum Wet Sclerophyll Forest: Survey, Classification and Mapping Completed for the NSW Environment Protection Authority

Abstract

Operational map:

The operational map for Grey Box Grey Gum Wet Sclerophyll Forest (GBWS) was constructed to resolve long-standing issues surrounding its identification, location and extent within the NSW State Forest estate covered by the eastern Regional Forest Agreements. The project's Threatened Ecological Community (TEC) Reference Panel (the Panel) interpreted the determination for GBWS and agreed that GBWS TEC is defined from quantitative floristic analyses of systematic plot data. Based on a strong association with the determination assemblage list and documented occurrences referenced in the determination, we have interpreted GBWS to be equivalent to a community described in a recent classification study in the Northern Rivers (OEH, 2012); 1000-1665: (Grey Gum - Grey Box - Hoop Pine shrubby open forest on hinterland hills of the Richmond and Clarence catchments, South Eastern Queensland Bioregion and NSW North Coast Bioregion). We conducted plot-based floristic comparison to assess whether GBWS or the equivalent Community 1000-1665 was present within 800 000 hectares of State Forest in the North Coast area. A map was developed based on plot assignments, aerial photography interpreted map polygons delineated from overstorey and understorey patterns, and results of predictive modelling. In total, we identified approximately 2936 hectares of GBWS TEC in State forests north from Cherry Tree State Forest. Another state forest area has been identified as potentially supporting GBWS forest and is presented in a separate Indicative map.

Indicative map:

The indicative map for Grey Box Grey Gum Wet Sclerophyll Forest (GBWS) was constructed to resolve long-standing issues surrounding its identification, location and extent within the NSW State Forest estate covered by the eastern Regional Forest Agreements. The project's Threatened Ecological Community (TEC) Reference Panel (the Panel) interpreted the determination for GBWS and agreed that GBWS TEC is defined from quantitative floristic analyses of systematic plot data. Based on a strong association with the determination assemblage list and documented occurrences referenced in the determination, we have interpreted GBWS to be equivalent to a community described in a recent classification study in the Northern Rivers (OEH, 2012); 1000-1665: (Grey Gum - Grey Box - Hoop Pine shrubby open forest on hinterland hills of the Richmond and Clarence catchments, South Eastern Queensland Bioregion and NSW North Coast Bioregion). We conducted plot-based floristic comparison to assess whether GBWS or the equivalent Community 1000-1665 was present within 800 000 hectares of State Forest in the North Coast area. A map was developed based on plot assignments, aerial photography interpreted map polygons delineated from overstorey and understorey patterns, and results of predictive modelling. In total, we identified approximately 2936 hectares of GBWS TEC in State forests north from Cherry Tree State Forest. However, we also assigned three plots to GBWS, which are disjunct from and well outside the previously known distribution, to the south. Of the three disjunct plots, only one is in our state forest study area, in Nymboida state forest. We have no evidence that GBWS occurs south of Nymboida state forest. We identify Nymboida and Kangaroo River state forests in this Indicative Map, as plausible locations for the GBWS TEC. We recommend the GBWS TEC in these areas be diagnosed on a site-by-site basis using our field key until further survey and mapping can be completed in these forests.

Operational TEC Mapping have been derived by API at a viewing scale between 1-4000 using ADS40 50 cm pixel imagery and 1 m derived LIDAR DEM grids for floodplain EECs.

Indicative TEC Mapping have been generated from best available composite environmental data layers - standardised to 30 m pixels.

Resource locator

Data Quality Statement

Name: Data Quality Statement

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

Description:

NSW Government standards direct that data should be made available with a statement regarding its quality, a so-called "Data Quality statement (DQS)", to enable potential users to determine whether the data is suitable for their requirements.

	Function: download
Assessment of Grey Box Grey Gum Wet Sclerophyll Forest TEC on NSW Crown Forest Estate	Name: Assessment of Grey Box Grey Gum Wet Sclerophyll Forest TEC on NSW Crown Forest Estate Protocol: WWW:DOWNLOAD-1.0-http--download Description: Report on the Assessment of Grey Box Grey Gum Wet Sclerophyll Forest TEC on NSW Crown Forest Estate Function: download
Operational Map for Grey Box Grey Gum Wet Sclerophyll Forest Threatened Ecological Community on NSW Crown Forest Estate	Name: Operational Map for Grey Box Grey Gum Wet Sclerophyll Forest Threatened Ecological Community on NSW Crown Forest Estate Protocol: WWW:DOWNLOAD-1.0-http--download Description: Shapefile - Operational map for the Assessment of Grey Box Grey Gum Wet Sclerophyll Forest TEC on NSW Crown Forest Estate Function: download
Indicative Map for Grey Box Grey Gum Wet Sclerophyll Forest Threatened Ecological Community on NSW Crown Forest Estate	Name: Indicative Map for Grey Box Grey Gum Wet Sclerophyll Forest Threatened Ecological Community on NSW Crown Forest Estate Protocol: WWW:DOWNLOAD-1.0-http--download Description: Shapefile - Indicative map for the Assessment of Grey Box Grey Gum Wet Sclerophyll Forest TEC on NSW Crown Forest Estate Function: download
Operational and Indicative Maps for the Assessment of Threatened Ecological Communities on NSW Crown Forest Estate	Name: Operational and Indicative Maps for the Assessment of Threatened Ecological Communities on NSW Crown Forest Estate Protocol: WWW:DOWNLOAD-1.0-http--download Description: ESRI ArcGIS Layer File - Operational and Indicative Maps for the Assessment of Threatened Ecological Communities on NSW Crown Forest Estate Function: download
Native Forestry Map Viewer	Name: Native Forestry Map Viewer Protocol: WWW:DOWNLOAD-1.0-http--download Description: The EPA Native Forestry Map Viewer enables users to view our Koala and Threatened Ecological Community mapping without the need to access a GIS system. The map viewer allows users to perform searches to locate areas of interest and export resulting map views into various image file formats. Function: download

Unique resource identifier

Code	b7b14bec-9730-4763-8d66-7ca48ac370f5

Presentation form	Map digital
Edition	Version 1
Dataset	English

language	
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/b7b14bec-9730-4763-8d66-7ca48ac370f5
Purpose	Native Forestry Regulation on State Forest
Status	Completed
Spatial representation	
Type	vector
Geometric Object Type	curve
Spatial reference system	
Code identifying the spatial reference system	4283
Equivalent scale	1:None
Topic category	

Keyword set	
keyword value	Threatened Ecological Community Endangered Ecological Community Vegetation State Forest Grey Box Grey Gum Wet Sclerophyll Forest EEC TEC Environment Protection Authority EPA
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	152.54238
East bounding longitude	152.77148
North bounding latitude	-29.02019
South bounding latitude	-28.33562
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	2016-10-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Irregular
Contact info	
Contact position	Data Broker
Organisation name	Environment Protection Authority (EPA)
Responsible party role	pointOfContact

Lineage

Operational map: Linework has been derived from manual interpretation of stereoscopic 3D ADS-40 imagery collected at a 50cm resolution. Date of photography varies across eastern NSW between 2009-2015. Interpretation has collected a range of floristic attributes including canopy species dominance, understorey attributes and assessment of landscape characteristics. Lines have been interpreted using a viewing scale between 1:2000- 1: 5000. Interpretation has been supported by field traverse (except bogs and saltmarsh), and existing field based observation data held by OEH. Final linework was assembled using combinations of aerial photo patterns, predictive TEC models, systematic plot data and where relevant fine scale topographic data derived from 1 metre resolution digital elevation model.

Indicative map: Line Work has been derived from the interpolation of Random Forest models based on the combination of 30m gridcell resolution climatic, topographic, substrate and remotely sensed variables. Individual grid cells represent probabilities of occurrence based on unique combinations and thresholds applied to selected variables. The lineage of model data has been drawn from a set of 158 individual data layers representing the NSW environmental data coverage.

Limitations on public access

Scope	dataset

DQ Conceptual Consistency

Explanation	Standard API mapping pathways have been established for mappers to apply consistent interpretation of vegetation features including, size criteria and polygon attribution

DQ Topological Consistency

Explanation	Not assessed

DQ Absolute External Positional Accuracy

Explanation	Operational maps: Positional accuracy has been measured using independent assessment of interpreted lines as a mean of 8.5 metres. Other influence on positional accuracy include the accuracy of field based GPS records currently tested at a mean of 9.2 metres. Some error with interpreted line from 2D to 3D environment can result in a positional shift of up to 10 metres. Indicative maps: Positional accuracy may vary depending on the selected layers chosen in the statistical model. These may vary from source data but include 1:250000 substrate layers, 30m DEM derived topographic and climatic indices. Positional accuracy may exceed 200m with minimum polygon sizes of some environmental selected layers reaching 50 hectares.

DQ Non Quantitative Attribute Correctness

Explanation	Attribution is consistent

Responsible party

Contact position	Data Broker
Organisation name	Environment Protection Authority (EPA)
Responsible party role	pointOfContact

Metadata point of contact

Contact position	Data Broker
Organisation name	Environment Protection Authority (EPA)
Responsible party role	pointOfContact

Metadata date

2024-02-26T13:46:21.223493

Metadata language