Title	Assessment of Swamp Oak Floodplain Forest TEC on NSW Crown Forest Estate (South Coast Region)
Alternative title(s)	Swamp Oak Floodplain Forest: Survey, Classification and Mapping Completed for the NSW Environment Protection Authority

| Abstract | The operational map for Swamp Oak Floodplain Forest (SOFF) was constructed to resolve long-standing issues surrounding its identification, location and extent within the NSW State Forest estate covered by the coastal Integrated Forestry Operation Agreements. The map was constructed in two parts, with State Forests to the north of Sydney being mapped in a separate process to those to the south of Sydney. We did this to minimise the risk that relationships between regional vegetation communities and the TEC would be confounded or masked by geographical variation or other major ecological gradients, which might otherwise be a significant risk if we had treated the full latitudinal range of the TEC as a single study area. In total, we assessed 1,218,000 hectares of State Forest across coastal NSW. This consisted of 868,000 hectares of State Forest on the north coast and more than 350,000 hectares of State Forest on the south coast. In both study areas, the project's Threatened Ecological Community (TEC) Reference Panel (the Panel) preceded the assessment process by reviewing the determination for SOFF and agreeing upon a set of diagnostic parameters for its identification. The Panel found that SOFF is primarily defined by floristic plot data and that it is mostly located on coastal floodplains and associated alluvial landforms. Following on from these conclusions, we started the mapping process by mapping the distribution of floodplains and alluvial soils and thus identifying possible areas of SOFF. For both the north and the south coast we used an existing map of coastal landforms and geology in combination with several fine-scale models of alluvial landform features to determine the likely extent of floodplains and alluvial soils within our study areas. We used aerial photograph interpretation (API) to assess floristic and structural attributes of the vegetation cover on our modelled alluvial environments, and thus delineated polygons likely to contain SOFF. We also used API to modify the boundaries of the modelled alluvial areas using a prescribed list of casuarina and melaleuca species in combination with the interpretation of landform elements relevant to alluvial and floodplain environments. We then compiled floristic plot data for all State Forest areas within our modelled alluvial landforms and API polygons. For both the north and the south coast the floristic plot data was sourced from both existing flora surveys held in the OEH VIS database and from targeted flora surveys conducted specifically for this project. We compared these plots with those previously assigned to flora communities listed in the determination of SOFF. Both dissimilarity-based methods and multivariate regression methods were used for the comparison. The results of the comparison were then used to assess the likelihood that the plots in State forests belonged to one or more of the communities listed in the SOFF determination. To create the operational map, we assigned every mapped API polygon to SOFF based on the plot data, over-storey and understorey attributes, landform features and model output underlying each API polygon. In total, we mapped approximately 272 hectares of SOFF across our full study area.

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. |

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 Swamp Oak Floodplain Forest TEC on NSW Crown Forest Estate (South Coast Region)	Name: Assessment of Swamp Oak Floodplain Forest TEC on NSW Crown Forest Estate (South Coast Region)
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Report on the Assessment of Swamp Oak Floodplain Forest TEC on NSW Crown Forest Estate (South Coast Region)
	Function: download

[Operational Map for Swamp Oak Floodplain Forest Threatened Ecological Community on NSW Crown Forest Estate](#)	Name: Operational Map for Swamp Oak Floodplain Forest Threatened Ecological Community on NSW Crown Forest Estate
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Shapefile - Operational map for the Assessment of Swamp Oak Floodplain Forest TEC on NSW Crown Forest Estate (South Coast Region)
	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	e5d35377-952d-4dbe-9614-885ab8dcb56d

Presentation form	Map digital

Edition	Version 1

Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/e5d35377-952d-4dbe-9614-885ab8dcb56d

Purpose	Native Forestry Regulation on State Forests

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
	Swamp Oak Floodplain Forest
	EEC
	TEC
	Environment Protection Authority
	EPA

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	149.81795
East bounding longitude	152.98365
North bounding latitude	-37.22477
South bounding latitude	-30.50141

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

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.

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	Positional accuracy for operational maps 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.

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

2024-02-26T14:16:30.940646

Metadata language