

Title	Assessment of Swamp Sclerophyll Forest on Coastal Floodplains TEC on NSW Crown Forest Estate (South Coast Region)
Alternative title(s)	Swamp Sclerophyll Forest: Survey, Classification and Mapping Completed for the NSW Environment Protection Authority
Abstract	<p>The operational map for Swamp Sclerophyll Forest (SSF) 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 SSF and agreeing upon a set of diagnostic parameters for its identification. The Panel found that SSF 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 SSF. 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 the floristic and structural attributes of the vegetation cover on our modelled alluvial environments, and thus delineated polygons likely to contain SSF. We also used API to modify the boundaries of the modelled alluvial areas using a prescribed list of eucalypt, 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 SSF. 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 SSF determination. Following this, we developed a predictive statistical model of the probability of occurrence of SSF using plot data and a selection of environmental and remote-sensing variables. For the north coast, we used a Random Forest model, while for the south coast we used a Boosted Regression Tree model. To create the operational map, we assigned every mapped API polygon to SSF if appropriate based on the plot data, over-storey and understorey attributes, landform features and modelled probabilities underlying each API polygon. In total, we mapped approximately 1131 hectares of SSF across our study area.</p> <p>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.</p>

## Resource locator

<a href="#">Data Quality Statement</a>	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>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.</p> <p>Function: download</p>
<a href="#">Assessment of Swamp Sclerophyll Forest on Coastal Floodplains</a>	<p>Name: Assessment of Swamp Sclerophyll Forest on Coastal Floodplains TEC on NSW Crown Forest Estate (South Coast Region)</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p>

[TEC on NSW Crown Forest Estate \(South Coast Region\)](#)

Report on the Assessment of Swamp Sclerophyll Forest on Coastal Floodplains TEC on NSW Crown Forest Estate (South Coast Region)

Function: download

[Assessment of Swamp Sclerophyll Forest on Coastal Floodplains TEC on NSW Crown Forest Estate \(South Coast Region\)](#)

Name: Assessment of Swamp Sclerophyll Forest on Coastal Floodplains TEC on NSW Crown Forest Estate (South Coast Region)

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

Description:

Shapefile - Operational Map for the Assessment of Swamp Sclerophyll Forest on Coastal Floodplains 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 b9de14e6-6aff-4f14-854c-ea7aa918435e

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/b9de14e6-6aff-4f14-854c-ea7aa918435e>

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

<b>Keyword set</b>	
keyword value	Threatened Ecological Community Endangered Ecological Community Vegetation State Forest Swamp Sclerophyll Forest EEC TEC Environment Protection Authority EPA
<b>Originating controlled vocabulary</b>	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
West bounding longitude	151.40437
East bounding longitude	153.28049
North bounding latitude	-33.12446
South bounding latitude	-29.12537
<b>Vertical extent information</b>	
Minimum value	-100
Maximum value	2228
<b>Coordinate reference system</b>	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
<b>Temporal extent</b>	
Begin position	2016-10-01
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	Irregular
<b>Contact info</b>	
Contact position	Data Broker
Organisation name	Environment Protection Authority (EPA)
Responsible party role	pointOfContact

<b>Lineage</b>	<p>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.</p>	
<b>Limitations on public access</b>		
<b>Scope</b>	dataset	
<b>DQ Conceptual Consistency</b>	<p><b>Explanation</b> Standard API mapping pathways have been established for mappers to apply consistent interpretation of vegetation features including, size criteria and polygon attribution.</p>	
<b>DQ Topological Consistency</b>	<p><b>Explanation</b> Not assessed</p>	
<b>DQ Absolute External Positional Accuracy</b>	<p><b>Explanation</b> 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.</p>	
<b>DQ Non Quantitative Attribute Correctness</b>	<p><b>Explanation</b> Attribution is consistent</p>	
<b>Responsible party</b>	<p><b>Contact position</b> Data Broker</p> <p><b>Organisation name</b> Environment Protection Authority (EPA)</p> <p><b>Responsible party role</b> pointOfContact</p>	
<b>Metadata point of contact</b>	<p><b>Contact position</b> Data Broker</p> <p><b>Organisation name</b> Environment Protection Authority (EPA)</p> <p><b>Responsible party role</b> pointOfContact</p>	
<b>Metadata date</b>	2024-02-26T12:48:28.893921	
<b>Metadata language</b>		