

Title	NSW seabed reef extent derived from marine lidar, multibeam and aerial imagery
Abstract	Rocky reef polygons were delineated from bathymetry data for the NSW seabed. Bathymetry data was sourced from marine lidar data, multibeam echosounder data and aerial imagery. Reef polygons were extracted from the seabed landforms polygons for the statewide marine lidar and multibeam surveys for Wollongong and Shellharbour (See below for associated SEED records). For the remaining areas, reef polygons were sourced from the 'NSW subtidal marine habitat layer' on SEED which included reef polygons manually digitised from multibeam surveys acquired from 2005-2017. Sources of reef polygons: https://datasets.seed.nsw.gov.au/dataset/nsw-seabed-landforms-derived-from-marine-lidar-data-2022 https://datasets.seed.nsw.gov.au/dataset/wollongong-seabed-landforms-derived-from-mbes-data-2022 https://datasets.seed.nsw.gov.au/dataset/shellharbour-seabed-landforms-derived-from-mbes-data-2022 https://datasets.seed.nsw.gov.au/dataset/nsw-marine-habitat-data
Resource locator	
Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for NSW seabed reef extent derived from marine lidar, multibeam and aerial imagery Function: download
Download Package	Name: Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data (Esri Geodatabase and Shapefile) Function: download
ArcGIS REST Service - NSW seabed reef extent	Name: ArcGIS REST Service - NSW seabed reef extent Protocol: WWW:DOWNLOAD-1.0-http--download Description: An ArcGIS Server web service represents a GIS resource such as a map, locator, or image that is located on an ArcGIS Server site and is made available to client applications. Depending on the layers enabled, this web service allows a user to query its features and/or visualise the dataset. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as ArcGIS/ArcMap. Function: download
Unique resource identifier	
Code	df3e3c04-6e28-4b13-b07b-ae6367cb3cd8
Presentation form	Map digital
Edition	1
Dataset language	English
Metadata standard	
Name	ISO 19115

Edition	2016
Dataset URI	https://www.planningportal.nsw.gov.au/opaendata/dataset/df3e3c04-6e28-4b13-b07b-ae6367cb3cd8
Purpose	Coastal and marine management and research
Status	On going
Spatial representation	
Type	vector
Spatial reference system	
Code identifying the spatial reference system	4283
Spatial resolution	
	5 m
Topic category	
environment	
geoscientificInformation	

Keyword set	
keyword value	MARINE MARINE-Coasts MARINE-Geology-and-Geophysics MARINE-Reefs
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
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	2005-01-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	As needed
Contact info	
Contact position	Data Broker
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Responsible party role	pointOfContact

Lineage

Rocky reef polygons were delineated from bathymetry data for the NSW seabed. Bathymetry data was sourced from marine lidar data, multibeam echosounder data and aerial imagery. Reef polygons were extracted from the seabed landforms polygons for the statewide marine lidar and multibeam surveys for Wollongong and Shellharbour (See below for associated SEED records). For the remaining areas, reef polygons were sourced from the 'NSW subtidal marine habitat layer' on SEED which included reef polygons manually digitised from multibeam surveys acquired from 2005-2017.

Reef polygons are inferred areas of 'rocky reef' habitat. Polygon boundaries have been defined using ruggedness (surface roughness) measures and visual inspection of data, to delineate where reef areas (rough outcrops) rise from a surrounding unconsolidated areas (smooth, flat seabed). Data has been classified from 5 m cell size input bathymetry data, and minimum mapping area is 25 m2. Data has been smoothed with a 20 m tolerance using ArcGIS 10.8 'Smooth Polygons' tool, and polygons smaller in area than 25 m2 have been eliminated using the 'Eliminate' tool.

Sources of reef polygons: <https://datasets.seed.nsw.gov.au/dataset/nsw-seabed-landforms-derived-from-marine-lidar-data-2022> <https://datasets.seed.nsw.gov.au/dataset/wollongong-seabed-landforms-derived-from-mbes-data-2022> <https://datasets.seed.nsw.gov.au/dataset/shellharbour-seabed-landforms-derived-from-mbes-data-2022> <https://datasets.seed.nsw.gov.au/dataset/nsw-marine-habitat-data>

Constraint set

Use constraints

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Limitations on public access

Responsible party

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Metadata date	2024-02-26T12:59:16.299751
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Metadata language
