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

Show on SEED Web Map	Name: Show on SEED Web Map
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Display dataset on SEED's map
	Function: download
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	36600c97-4ffd-403e-9ec6-3b4efbd507df
Presentation form	Map digital
Edition	1

Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/36600c97-4ffd-403e-9ec6-3b4efbd507df
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	

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

West bounding longitude	149.633789
East bounding longitude	154.204102
North bounding latitude	-37.931488
South bounding latitude	-27.844256

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
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
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

Limitations on public access	

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Metadata point of contact

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Metadata date	2024-02-26T12:59:13.120640

Metadata language	