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| Title | NSW seabed reef extent derived from marine lidar, multibeam and aerial imagery |
| Abstract | <p>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.</p> <p>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</p> |
| Resource locator | |
| Show on SEED Web Map | <p>Name: Show on SEED Web Map</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Display dataset on SEED's map</p> <p>Function: download</p> |
| Data Quality Statement | <p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data quality statement for NSW seabed reef extent derived from marine lidar, multibeam and aerial imagery</p> <p>Function: download</p> |
| Download Package | <p>Name: Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data (Esri Geodatabase and Shapefile)</p> <p>Function: download</p> |
| ArcGIS REST Service - NSW seabed reef extent | <p>Name: ArcGIS REST Service - NSW seabed reef extent</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>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.</p> <p>Function: download</p> |
| Unique resource identifier | |
| Code | 36600c97-4ffd-403e-9ec6-3b4efbd507df |
| Presentation form | Map digital |
| Edition | 1 |

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|---|---|
| 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 | |

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| 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

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

Metadata language