Title	Nearshore subtidal marine reef systems and soft sediment mapping, New South Wales
Alternative title(s)	NearshoreSubtidalMarineReffMapping2002.shp
Abstract	Near-shore reef boundaries mapped from available aerial photography over a range of years and scales. The mapped reef boundaries represent the greatest extent of reef observed over multiple years ie. mapped reef area includes reefs prone to intermittent sand inundation. Unrectified photos were used. Mapping has been conducted in several stages with the current version 5 being extended to include the coast between Port Jackson and Newcastle. Clarence River and Tweed Heads. Mapping is effectively complete with about 0.2% of the NSW coast remaining unmapped due to a number of reasons - unavailability of suitable aerial photos; poor visibility through the water column in deep nearshore zones (eg Sydney Heads south). This mapping was conducted by NSW National Parks and Wildlife Service, and is owed jointly by NPWS, NSW Fisheries, NSW Marine Parks Authority, NSW Department of Land and Water Conservation and Environment Australia. Aerial photos used in this process were provided by NSW Dept of Land and Water Conservation's Specialist Coastal and Floods Unit.
Resource loca	tor
Data Quality Statement Nearshore Subtidal Marine Reef data package	Name: Data Quality Statement
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	DQS for Nearshore subtidal marine reef mapping
	Function: download
	Name: Nearshore Subtidal Marine Reef data package
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data package including data, reports, and associated documentation Function: download
Unique resourd	
Code	f357f40e-0d9a-4d29-b4fd-4e61729a1752
	13371406-0098-4029-0410-460172981732
Presentation form	Document digital
Edition	1
Dataset language	English
Metadata stan	dard
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/f357f40e-0d9a-4d29-b4fd-4e61729a1752
Purpose	This coverage is intended for used in regional level marine conservation assessment. It was prepared using very low cost techniques (ie. unrectified API) and should not be relied upon for navigation purposes. THIS DATA IS NOT SUITABLE FOR NAVIGATION PURPOSES.
Status	Completed

Spatial representation Type vector Spatial reference system Code identifying the 4283 spatial reference system Spatial 50 m resolution ATTRIBUTES:;SUBSTRATE Categories: "Reef": includes bedrock, bolder/cobble fields, Additional barrens below the approximate astronomical low water mark; "Sand": includes sand information and soft sediments; "Emergent": includes emergent and intertidal components of islands and rocks derived directly from the AMBIS low water coverage (Marine). source Emergent areas should be treated as outside in any analysis of subtidal (ie. below astronomical low water) habitats. For delineation of intertidal and supratidal components of these 'emergent' units use the complementary intertidal coverage; "Outside": includes areas not covered by available aerial photography, or bottom was not clearly visible through the water column.; HABITAT Categories (on selected reef only): "Barrens": Large areas of unvegetated reef, grazed and maintained by urchins; "Fringe": Includes vegetated reef; "Sand": includes areas of sand and soft sediments;"Emergent": includes emergent and intertidal components of islands and rocks derived directly from the AMBIS low water coverage (Marine). Emergent areas should be treated as outside in any analysis of subtidal (ie. below astronomical low water) habitats. For delineation of intertidal and supratidal components of these 'emergent' units use the complementary intertidal coverage; "Outside": includes areas not classified to habitat level, along with areas not covered by available aerial photography, or where bottom type was not clearly visible through the water column.;METHOD:;Aerial photos of varying scales (generally 1:10,000, but ranging from 1:8,000 to 1:40,000) and dates (1970's to 2000) were traced onto 1:25,000 scale topographic maps using a 'Zeiss - Aero Sketchmaster'. Only photos with sharp visibility through the water column were utilised. Multiple photos where viewed and traced for any one location with the final linework representing the greatest extent of reef visible over the period examined. Obvious algal drifts were excluded. Photos and digitised composite remain un-rectified. No ground truthing conducted, but reliance on experience of interpreter and capacity to check reef boundary positions at a site across a time series of photo images. The AMBIS 1995 low water coast ('marine') was editied into the coverage. Where, the AMBIS coast was not available (eg behind bay closures), the coastline from LIC 1:25,000 topos was applied. Where clear images allowed, additional attributes, habitats (ie barrens, fringe) where mapped on a selection of reefs. The attribute accuracy of these habitat features remains unvalidated and should be consided to be of poor quality at this point in time. Topic category Keyword set keyword value **ECOLOGY-Habitat FISHERIES** FISHERIES-Marine MARINE MARINE-Biology **MARINE-Coasts MARINE-Reefs OCEANOGRAPHY** Originating controlled vocabulary

Title ANZLIC Search Words

Reference date 2008-05-16

Geographic location	
West bounding longitude	149.7
East bounding longitude	153.6
North bounding latitude	-37.6
South bounding latitude	-28.1
NSW Place Name	NSW Coast
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	1940-10-18
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Unknown
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

Lineage:; Mapping has been conducted in five stages.; Version 1: The first stage of the 'Nearreef' coverage mapped the area from Woody Head (29 22'S) to Sawtell (30 22' 30" S). This work was initiated in 1996 by the NPWS and completed with funding from the recently established NSW Marine Parks Authority in preparation for the development of zonation plans for the Solitary Island Marine Park. The coverage was prepared in ERMS and converted to ArcView. Reef boundaries from unrectified aerial photos were transferred onto 1:25,000 topographic sheets using a Zeizz Aero Sketchmaster before being digitised. The coastline was digitised directly from the 1:25,000 topo sheets.; Version 2: Second stage extended mapping from Sawtell to Newcastle. Data capture was conducted at NPWS with funding from the NSW Marine Parks Authority and Environment Australia as part of the Manning Shelf Bioregional Assessment. Methodology remained essentially the same as stage 1, however data capture in stage 2 was achieved using ArcInfo GIS software and the 1:25,000 Topographic map coastline was replaced with the AUSLIG/AMBIS 1995 low water coastline ('marine').; Version 3: Third stage extended mapping from Port Jackson (ie.Sydney) south to Cape Howe (ie. NSW-Victorian Border). Mapping was undertaken by NPWS in mid 2001 with funding from NSW Fisheries. Methods used were identical to those in Stage 2 except that additional reef habitats (ie barrens, fringe) were mapped for selected areas south of Sydney.; Version 4: Fourth stage extended mapping north from Woody Head (29 22'S) to Tweed Heads (ie.NSW - Queensland border). Mapping was undertaken by NPWS in mid 2001 with funding from the NSW Marine Parks Authority as part of the investigations into the Byron Bay Marine Park proposal.; Version 5: Fifth stage essentially complete the last major stage in the mapping of the NSW coast, between Sydney and Newcastle. Mapping was conducted by NPWS with funding from NSWF.; Positional accuracy:; Fair. Upto +/- 50m. Error due to tracing of unrectified aeral photos; Attribute accuracy;; Fair for substrate (sand, reef) categories.; Poor for reef habitat categories (barrens, fringe).; No ground truthing conducted. Possible confunding effect of algae drifts generally eliminated by viewing multiple images of any one site.; SUBSTRATE Categories; 'Reef': includes bedrock, bolder/cobble fields, barrens below the approximate astronomical low water mark.; 'Sand': includes sand and soft sediments; 'Emergent': includes emergent and intertidal components of islands and rocks derived directly from the AMBIS low water coverage (Marine). Emergent areas should be treated as outside in any analysis of subtidal (ie. below astronomical low water) habitats. For delineation of intertidal and supratidal components of these 'emergent' units use the complementary intertidal coverage.; 'Outside': includes areas not covered by available aerial photography, or bottom was not clearly visible through the water column; HABITAT Categories (on selected reef only); 'Barrens': Large areas of unvegetated reef, grazed and maintained by urchins.; 'Fringe': Includes vegetated reef; 'Sand': includes areas of sand and soft sediments; 'Emergent': includes emergent and intertidal components of islands and rocks derived directly from the AMBIS low water coverage (Marine). Emergent areas should be treated as outside in any analysis of subtidal (ie. below astronomical low water) habitats. For delineation of intertidal and supratidal components of these 'emergent' units use the complementary intertidal coverage.; 'Outside': includes areas not classified to habitat level, along with areas not covered by available aerial photography, or where bottom type was not clearly visible through the water column; Logical consistency;; Good. Good reef boundary consistency between years, although sand drift (constriction of some reefs) was observed.; Completeness:; Version 5 maps reefs along the whole NSW coast (ie Tweed Heads to Cape Howe); reefs are mapped in waters upto 1km offshore and in depths upto 20m. A number of small gaps exist in the cover where suitable images were not availble, or where wave exposure and excessive depth obscured reef visibility. Version 5 essentially completes the mapping of the NSW nearshore zone. Only,0.2% remains unmapped.

Limitations on public access

Scope dataset **DQ Completeness Commission** Effective 2001-01-01 date **DQ Completeness Omission** Effective 2001-01-01 date **DQ Conceptual Consistency** Effective 1900-01-01 date **DQ Topological Consistency** Effective 1900-01-01 date Fair for substrate (sand, reef) categories. Poor for reef habitat categories Explanation (barrens, fringe). No ground truthing conducted. Possible confunding effect of algae drifts generally eliminated by viewing multiple images of any one site. DQ Absolute External Positional Accuracy Effective 1900-01-01 date Explanation Fair. Upto +/- 50m. Error due to tracing of unrectified aeral photos DO Non Quantitative Attribute Correctness Effective 1900-01-01 date Fair for substrate (sand, reef) categories. Poor for reef habitat categories (barrens, Explanation fringe). No ground truthing conducted. Possible confunding effect of algae drifts generally eliminated by viewing multiple images of any one site. Responsible party Contact position Data Broker

Organisation name NSW Department of Climate Change, Energy, the Environment and Water

Telephone number 131555

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Web address https://www.nsw.gov.au/departments-and-agencies/dcceew

Responsible party role pointOfContact

Metadata point of contactContact positionData BrokerOrganisation nameNSW Department of Climate Change, Energy, the Environment and WaterTelephone number131555Email addressdata.broker@environment.nsw.gov.auWeb addresshttps://www.nsw.gov.au/departments-and-agencies/dcceewResponsible party rolepointOfContactMetadata date2024-02-26T15:33:18.739866

Metadata language