Title Seabed NSW

Abstract

The SeaBed NSW program provides data on the structure and composition of the seabed adjacent to our beaches. This program is funded through the NSW Coastal Reforms, combined with data from other sources. It improves our understanding of connectivity between coastal (beaches, estuaries) and marine environments, enabling improved approaches to managing and predicting the impacts of human activities, severe storms and climate change.

The program builds on the research expertise and specialist capabilities developed in 2005 as part of the HABMAP program mapping seabed habitats of our marine estate. The SeaBed NSW project maps large areas of the seafloor on the inner continental shelf using airborne laser mapping (LADS) in shallow water depths and vessel-based multi-beam sonar further offshore.

The program contributes to the goal of a continuous high-resolution digital elevation model (DEM) for the entire NSW coast. This new marine LiDAR data builds significantly on our existing database; provides a more accurate 3D surface for our wave modelling tools, enables us to answer questions about how sand moves around the coastal-marine environment and provide baseline information from which to measure change.

Seabed data is generated by collating and analysing bathymetric and marine sediment datasets, and seabed habitats defined from swath acoustic surveys and aerial photography. Data from approximately 120 kilometres of vessel-towed underwater video surveys is also used to allow field validation of swath acoustic data and a description of the visually dominant sessile biota over large areas of the seabed.

An understanding of what type of seabed there is, what it is made of and what is living there is critical so we can better manage coastal hazards and risk for NSW and ensure there are viable and healthy marine ecosystems for the future. The data are intended to inform coastal and marine management and should not be used for navigation without additional processing.

The Seabed NSW program has developed and issued the following datasets:

- NSW Marine LiDAR Topo-Bathy 2018 Geotif
- NSW seabed landforms derived from marine lidar data 2022
- Shellharbour seabed landforms derived from multibeam echosounder data 2022
- Wollongong seabed landforms derived from multibeam echosounder data 2022
- HABMAP Multi-beam Survey Coverage Areas
- <u>Single Beam Bathymetry & Coastal Topography Survey Coverage Areas Coastal Marine Unit</u>
- NSW Environment Multi Beam Echo Sounder Gridded Data
- NESP Biodiversity Hub Hunter Marine Park Multi Beam Echo Sounder Surveys

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 Seabed NSW

Function: download

Readme notes

Name: Readme notes

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

Description:

Notes about access to the datasets. Function: download Unique resource identifier Code 77e06ad6-336b-4279-b5a3-6e30abcd9d42 Presentation Map digital form Edition 1 **Dataset** English language Metadata standard Name ISO 19115 Edition 2016 **Dataset URI** https://datasets.seed.nsw.gov.au/dataset/77e06ad6-336b-4279-b5a3-6e30abcd9d42 Purpose To support coastal and marine research, planning and management **Status** Planned **Spatial** representation None type Spatial reference system Code identifying the spatial 4283 reference system **Topic category** Keyword set keyword value **GEOSCIENCES-Geomorphology MARINE-Coasts** MARINE-Geology-and-Geophysics MARINE-Reefs LAND-Topography PHOTOGRAPHY-AND-IMAGERY-Remote-Sensing WATER **ECOLOGY-Habitat** ECOLOGY-Landscape Originating controlled vocabulary Title **ANZLIC Search Words** Reference date 2008-05-16 Geographic location

West bounding longitude		149.72168
East bounding longitude		153.852539
North bounding latitude		-37.715331
South bounding latitude		-28.145871
Vertical extent inform	ation	
Minimum value		-100
Maximum value		2228
Coordinate reference syste	m	
Authority code		urn:ogc:def:cs:EPSG::
Code identifying the coordi system	nate reference	5711
Temporal extent		
Begin position		2022-09-05
End position		N/A
Dataset reference date	e	
Resource maintenance	е	
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
Email address Web address		data.broker@environment.nsw.gov.au https://www.nsw.gov.au/departments-and-agencies/dcceew
Web address	SS.	https://www.nsw.gov.au/departments-and-agencies/dcceew
Web address Responsible party role	ss	https://www.nsw.gov.au/departments-and-agencies/dcceew
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Web address Responsible party role Limitations on public access Responsible party Contact position	Data Broker	https://www.nsw.gov.au/departments-and-agencies/dcceew pointOfContact
Web address Responsible party role Limitations on public access Responsible party Contact position Organisation name	Data Broker NSW Depart 131555	https://www.nsw.gov.au/departments-and-agencies/dcceew pointOfContact

pointOfContact

Responsible party role

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 2025-03-30T20:59:05.701592

Metadata language