Title	NSW Marine LiDAR Topo-Bathy 2018 Geotif
Alternative title(s)	Coastal marine topographic and bathymetric surveys and imagery
Abstract	Remotely sensed topographic (elevation) and bathymetric (depth) information were acquired for the NSW coast (Point Danger to Cape Howe) and southern Queensland (Palm Beach to Point Danger) using Airborne LiDAR Bathymetry (ALB - a combination of Light Detection And Ranging (LiDAR) and Laser Airborne Depth Sounding (LADS) sensors) during July - December 2018. Data were acquired by Fugro Pty Ltd on behalf of NSW Office of Environment and Heritage using a Riegl VQ-820-G ALB (LiDAR) and Fugro LADS High-Definition sensors aboard sub-contracted Corporate Air Cessna C441 (VH-VEH). Funding was provided through the NSW Coastal Reforms package. The objective of the project was to provide high-resolution data better than 3-5 m spaced soundings (0.5 m spot spacing terrestrial; 3.4 m spot spacing marine) from the mean high-water mark to ~200m inland, and from the shore, seaward (LADS - bathymetry) to the point of laser extinction (~20-40m water depth depending on in-water conditions). Positioning data were collected on the ellipsoid ITRF 2014 GRS80 in UTM Z56 and post-processed using local base stations (CORSnet NSW) to provide a Post Processed Kinematic GNSS solution for final aircraft trajectory before being applied to all data. The final data Geotif products are provided on the <i>Geosciences Australia ELVIS website</i> . They are combined gridded terrestrial (elevation) and subtidal marine (bathymetry) data at 5 x 5 m (horizontal resolution) <i>Geotifs exported using ESRI ArcMap from rasters (weighted average of clean soundings)</i> in GDA 2020 (horizontal datum) to Australian Height Datum (vertical datum) and vertical precision to International Hydrographic Order (IHO) 1B. Data covers an area of 6862 km2 provided in 48 sub-datasets the extents of which are generally defined in their alongshore extent by the boundary So files will be made publicly available shortly on the ELVIS website. Data packages containing Arc Grids (topo-bathy, contours), XYZ, KMZ, tif, pdf maps and Fledermaus SD files will be made publicly available shortly
Resource locato	Dr
<u>Data Quality</u> <u>Statement</u>	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-httpdownload Description: Data quality statement for Marine LiDAR
	Function: download
<u>Download</u> <u>Package</u>	Name: Download Package Protocol: WWW:DOWNLOAD-1.0-httpdownload Description:
	Zipped folder including an ArcGIS shapefile of the spatial extent of the NSW Marine LiDAR Topo-Bathy 2018 Dataset (including Geotif extents)
	Function: download
<u>REST Service</u>	Name: REST Service Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	NSW Marine LiDAR Topo-Bathy 2018 Geotif - REST
	Function: download
Unique resource	e identifier
Code	45089194-912d-4ecf-8200-969e0796afee

Presentation form	Multimedia digital		
Edition	v1.1		
Dataset language	English		
Metadata standa	ard		
Name	ISO 19115		
Edition	2016		
Dataset URI	https://datasets.seed	.nsw.gov.au/dataset/45089194-912d-4ecf-8200-969e0796afee	
Purpose	Baseline data for coastal hazard management by state and local governments for Coastal Reforms. The data are intended to inform coastal and marine management including modelling of coastal and marine processes. The data should not be used for navigation without additional processing.		
Status	Completed		
Spatial representation type	grid		
Spatial reference	e system		
Code identifying the spatial reference system	4283		
Spatial resolution	5 m		
Additional information source	Extent along Australia's east coast if from Palm Beach in southeast Queensland to Cape Howe at the NSW/Victorian border from a minimum of 200m inland from the shore to point of LADS extinction (nominally 20-40m water depth) offshore.		
Topic category			
Keyword set			
keyword value		GEOSCIENCES-Geomorphology	
		MARINE-Coasts	
		MARINE-Geology-and-Geophysics	
		MARINE-Reefs	
		LAND-Topography	
		PHOTOGRAPHY-AND-IMAGERY-Remote-Sensing	
Originating controlle	d vocabulary		
Title		ANZLIC Search Words	
Reference date		2008-05-16	
Geographic locat	tion		
West bounding longitude 149.414062			

-37.801968
-27.465385
NSW coast
-100
2228
urn:ogc:def:cs:EPSG::
5711
2018-07-01
N/A
Unknown
Data Broker
NSW Department of Climate Change, Energy, the Environment and Water
131555
data.broker@environment.nsw.gov.au
https://www.nsw.gov.au/departments-and-agencies/dcceew
pointOfContact

used, auxiliary data, processing, classification etc are provided in Report of Survey and associated reports. The final Report of Survey can be accessed via the OEH Offshore Mapping webpage and/or OEH IAR, ELVIS or AusSeabed websites or upon request. System installation occurred at Goulburn airport 3-10 July 2018 followed by verification flights with surveys commencing from Ballina airport 11 July 2018. A total of 93 flights were conducted from 11 July 2018 to 20 October 2018 followed by demobilisation 21-24 October 2018 in Goulburn. Data are processed by Fugro (Adelaide) and provided to OEH Jan-Jun 2019.

Limitations on public access

Scope	dataset		
DQ Completene	ss Commiss	sion	
Effective date	2019-08-20		
Explanation	Some additional datasets from earlier Marine LiDAR surveys (2008, 2011) are to be included; this survey (2018) contains some data from southern Queensland.		
DQ Absolute Ex	ternal Positi	onal Accuracy	
Effective date	2019-06-20		
Explanation	1m		
Responsible	party		
Contact position	on	Data Broker	
Organisation n	ame	NSW Department of Climate Change, Energy, the Environment and Water	
Telephone nun	nber	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 po	int of con	tact	
Contact position		Data Broker	
Organisation n	ame	NSW Department of Climate Change, Energy, the Environment and Water	
Telephone nun	nber	131555	
Email address		data.broker@environment.nsw.gov.au	
Web address		https://www.nsw.gov.au/departments-and-agencies/dcceew	
Responsible pa	arty role	pointOfContact	
Metadata da	te	2024-02-26T13:50:15.878168	
Metadata lan	iquage		