Title	NSW nearshore wave buoy parameter time series data (completed deployments)
Abstract	In-situ ocean wave measurements have been collected at nearshore locations along the NSW coast. Wave data are collected using GPS wave buoys that are deployed by NSW DCCEEW scientists on moorings in shallow coastal waters (< 35 m water depth) adjacent to beaches or rocky shores. The program currently uses Sofar Spotter wave buoys (https://www.sofarocean.com/products/spotter). During 2016-2017, Datawell DWR-G4 wave buoys (https://www.datawell.nl/Products/Buoys.aspx) were used, while in 2018 and 2019 both Datawell and Spotter wave buoys were used. A buoy comparison experiment was carried out in 2018, which found that wave data measured by Datawell and Spotter buoys at the same location could be considered equivalent. The wave buoys are tethered to moorings at deployment locations and float on the water surface, measuring the height, period and direction of passing waves by tracking the motion of the buoy through time using GPS. The deployments are temporary, and the duration of each wave buoy deployment varies with operational needs, ranging from several months to years. Deployment locations are chosen to support scientific research carried by NSW DCCEEW and partners on coastal dynamics along the NSW coastline and to develop nearshore wave modelling tools and data. Wave data and research support the development of Coastal Management Programs (CMPs) under the Coastal Management Act (2016). The processed wave data from completed buoy deployments include a comma-separated value (CSV) table of widely used spectral and time-domain parameters describing wave height, period and direction, derived from spectral and zero-crossing analysis techniques. Data are provided at half-hourly temporal resolution with timestamps corresponding to the end of the half-hour buoy displacement measurement period in Australian Eastern Standard Time (AEST). Timestamps are included for each half-hour from the beginning to the end of each deployment, including when data was not recorded or when the buoy was temporarily removed from the water during mooring servicing. The time-series data have been quality controlled using standard diagnostic tests to identify suspect data points. Quality control fields (Qflag, Qcode, Percent, Dof) describe the provenance, completeness and quality of each data point. Sea surface temperature data are also provided for locations where buoys with water temperature sensors were deployed. For more information on wave buoy data collection and processing, please see: Kinsela, M.A., Morris, B.D., Ingleton, T.C., Doyle, T. B. et al. (2024) Nearshore wave buoy data from southeastern Australia for coastal research and management. Scientific Data. https://doi.org/10.1038/s41597-023-02865-x Wave buoy equipment and deployments have been primarily funded by NSW DCCEEW with equipment grant funding from the NSW Office of the Chief Scientist and Engineer's Research Attraction and Acceleration Program (RAAP) awarded to the NSW Node of the Integrated Marine Observing System (IMOS) and administered by the Sydney Institute of Marine Science (SIMS). The Water Research Laboratory (UNSW Sydney) also provided wave buoys used in the program. Real-time data from active nearshore wave buoy deployments is also available on SEED: https://datasets.seed.nsw.gov.au/dataset/nsw-nearshore-wave-buoy-parameter-time-series-data-active-deployments For more information on the NSW Nearshore Wave Data program please visit: https://www.environment.nsw.gov.au/research-and-publications/our-science-and-research/our-research/water/ocean-and-coastal-waves Data are provided as a ZIP file for each deployment under

Dataset Packages below.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for NSW nearshore wave buoy parameter time series data (completed deployments) Function: download
NSWENV_NearshoreWaveBuoy_Locations	Name: NSWENV_NearshoreWaveBuoy_Locations Protocol: WWW:DOWNLOAD-1.0-http--download Description: ArcGIS shapefile showing locations of Nearshore Wave Buoy Deployments as at 11-October-2023 Function: download
NSWENV_NearshoreWaveBuoy_Code	Name: NSWENV_NearshoreWaveBuoy_Code Protocol: WWW:DOWNLOAD-1.0-http--download Description: Matlab code used to process Nearshore Wave Buoy Deployment data Function: download
NSWENV_20160302-20160517_12m_Narrabeen_WAVE	Name: NSWENV_20160302-20160517_12m_Narrabeen_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Narrabeen: 20160302-20160517. For more information see Readme txt file in data package. Function: download
NSWENV_20160302-20160517_13m_Collaroy_WAVE	Name: NSWENV_20160302-20160517_13m_Collaroy_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Collaroy: 20160302-20160517. For more information see Readme txt file in data package. Function: download
NSWENV_20160603-20160703_13m_Collaroy2_WAVE	Name: NSWENV_20160603-20160703_13m_Collaroy2_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Collaroy2: 20160603-20160703. For more information see Readme txt file in data package. Function: download
NSWENV_20160811-20161017_14m_Bronte_WAVE	Name: NSWENV_20160811-20161017_14m_Bronte_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Bronte: 20160811-20161017. For more information see Readme txt file in data package. Function: download

NSWENV_20160811-20161026_14m_Maroubra_WAVE	Name: NSWENV_20160811-20161026_14m_Maroubra_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Maroubra: 20160811-20161026. For more information see Readme txt file in data package. Function: download
NSWENV_20161206-20171211_30m_Figure8Pools_WAVE	Name: NSWENV_20161206-20171211_30m_Figure8Pools_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Figure8Pools: 20161206-20171211. For more information see Readme txt file in data package. Function: download
NSWENV_20170605-20171030_14m_Woonona_WAVE	Name: NSWENV_20170605-20171030_14m_Woonona_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Woonona: 20170605-20171030. For more information see Readme txt file in data package. Function: download
NSWENV_20170605-20171030_15m_FairyMeadow_WAVE	Name: NSWENV_20170605-20171030_15m_FairyMeadow_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from FairyMeadow: 20170605-20171030. For more information see Readme txt file in data package. Function: download
NSWENV_20180613-20180722_31m_Gerroa_WAVE	Name: NSWENV_20180613-20180722_31m_Gerroa_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Gerroa: 20180613-20180722. For more information see Readme txt file in data package. Function: download
NSWENV_20180816-20181203_13m_OldBarA_WAVE	Name: NSWENV_20180816-20181203_13m_OldBarA_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from OldBarA: 20180816-20181203. For more information see Readme txt file in data package. Function: download
NSWENV_20180816-20190312_12m_Farquhar_WAVE	Name: NSWENV_20180816-20190312_12m_Farquhar_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Farquhar: 20180816-20190312. For more information see Readme txt file in data package. Function: download
NSWENV_20181003-20190311_13m_OldBarB_WAVE	Name: NSWENV_20181003-20190311_13m_OldBarB_WAVE

	Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from OldBarB: 20181003-20190311. For more information see Readme txt file in data package. Function: download
NSWENV_20190321-20190604_11m_BoomerangA_WAVE	Name: NSWENV_20190321-20190604_11m_BoomerangA_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from BoomerangA: 20190321-20190604. For more information see Readme txt file in data package. Function: download
NSWENV_20190321-20190618_33m_BoomerangB_WAVE	Name: NSWENV_20190321-20190618_33m_BoomerangB_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from BoomerangB: 20190321-20190618. For more information see Readme txt file in data package. Function: download
NSWENV_20190724-20200113_33m_BoomerangB2_WAVE	Name: NSWENV_20190724-20200113_33m_BoomerangB2_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from BoomerangB2: 20190724-20200113. For more information see Readme txt file in data package. Function: download
NSWENV_20190724-20200520_13m_BoomerangA2_WAVE	Name: NSWENV_20190724-20200520_13m_BoomerangA2_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from BoomerangA2: 20190724-20200520. For more information see Readme txt file in data package. Function: download
NSWENV_20191021-20200209_14m_Collaroy3_WAVE	Name: NSWENV_20191021-20200209_14m_Collaroy3_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Collaroy3: 20191021-20200209. For more information see Readme txt file in data package. Function: download
NSWENV_20191206-20200225_14m_Worimi_WAVE	Name: NSWENV_20191206-20200225_14m_Worimi_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Worimi: 20191206-20200225. For more information see Readme txt file in data package. Function: download

NSWENV_20191206-20210409_13m_Stockton_WAVE	Name: NSWENV_20191206-20210409_13m_Stockton_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Stockton: 20191206-20210409. For more information see Readme txt file in data package. Function: download
NSWENV_20200331-20211102_15m_Collaroy4_WAVE	Name: NSWENV_20200331-20211102_15m_Collaroy4_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Collaroy4: 20200331-20211102. For more information see Readme txt file in data package. Function: download
NSWENV_20201110-20210824_13m_Broulee_WAVE	Name: NSWENV_20201110-20210824_13m_Broulee_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Broulee: 20201110-20210824. For more information see Readme txt file in data package. Function: download
NSWENV_20201110-20230609_13m_Bengello_WAVE	Name: NSWENV_20201110-20230609_13m_Bengello_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Bengello: 20201110-20230609. For more information see Readme txt file in data package. Function: download
NSWENV_20201116-20210402_13m_Merimbula_WAVE	Name: NSWENV_20201116-20210402_13m_Merimbula_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Merimbula: 20201116-20210402. For more information see Readme txt file in data package. Function: download
NSWENV_20210510-20221123_13m_Merimbula2_WAVE	Name: NSWENV_20210510-20221123_13m_Merimbula2_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Merimbula2: 20210510-20221123. For more information see Readme txt file in data package. Function: download
NSWENV_20210630-20211207_06m_Deeban_WAVE	Name: NSWENV_20210630-20211207_06m_Deeban_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Deeban: 20210630-20211207. For more information see Readme txt file in data package. Function: download
NSWENV_20211119-20221124_13m_Broulee2_WAVE	Name: NSWENV_20211119-20221124_13m_Broulee2_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download

	Description: Nearshore wave data from Broulee2: 20211119-20221124. For more information see Readme txt file in data package. Function: download
NSWENV_20211221-20230830_15m_Collaroy5_WAVE	Name: NSWENV_20211221-20230830_15m_Collaroy5_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Collaroy5: 20211221-20230830. For more information see Readme txt file in data package. Function: download
NSWENV_20220301-20221116_06m_Deeban2_WAVE	Name: NSWENV_20220301-20221116_06m_Deeban2_WAVE Protocol: WWW:DOWNLOAD-1.0-http--download Description: Nearshore wave data from Deeban2: 20220301-20221116. For more information see Readme txt file in data package. Function: download
Unique resource identifier	
Code	eb752d3a-ef07-4cd1-9b9e-7916236d7c94
Presentation form	Diagram digital
Edition	1
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/eb752d3a-ef07-4cd1-9b9e-7916236d7c94
Purpose	Coastal Hazard Management
Status	On going
Spatial representation type	None
Spatial reference system	
Code identifying the spatial reference system	4283
Topic category	

Keyword set

keyword value	OCEANOGRAPHY-Physical MARINE-Coasts
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	149.501953
East bounding longitude	153.984375
North bounding latitude	-37.746396
South bounding latitude	-27.870161

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	2021-02-12
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	Continual
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

Limitations on public access

Responsible party

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Responsible party role	pointOfContact

Metadata date

2024-09-17T00:08:53.688659

Metadata language