

Title	NSW Environment Protection Authority Post-Flood River Surveys 2022-23
Alternative title(s)	Sonar (Submerged Debris) Program
Abstract	Hydrographic data (multibeam or singlebeam) and estuary-river bed imagery (side-scan) collected to identify river-bed hazards in targeted sections of 13 New South Wales (NSW) coastal rivers/estuaries following significant 2021-22 flood events for the state's Environment Protection Authority. Surveys were completed under contract by two commercial survey companies Hydrographic & Cadastral Survey (H&C) and SandMap, during 2022-23 as primarily target detection with hydrographic depth determination for safety of navigation, a secondary requirement. SandMap surveys covered sections of the Bellinger-Kalang, Clarence, Nambucca, Richmond, Tweed and Wilson rivers. H&C Survey surveys covered sections of Woronora, Shoalhaven, Camden Haven, Hastings, Macleay, Manning and Hawkesbury rivers. Surveys were completed to identify the location of potential in-river navigational hazards and/or potential sources of environmental harm or pollution following significant flood events within NSW 2021 and 2022. Although the vertical and horizontal precision and accuracy is expected to be high, the user should understand how the data are collected and the horizontal and vertical uncertainties inherent in the data and products (see reports). The data provided here are deemed 'Not for Navigation'. Funding was provided under the joint Commonwealth-State Disaster Recovery Funding Arrangements for the flood recovery program and survey contracts were awarded following a tender process. Final data packages, output products and survey reports were provided by end of the financial year 2022-23 and have been backed up on DPE Environment and Heritage groups Science Data Compute facility.
Resource locator	
Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for NSW Environment Protection Authority Post-Flood River Surveys 2022-23 Function: download
Unique resource identifier	
Code	b54adc7f-140d-4509-82f5-aa1bf3cb8ad5
Presentation form	Multimedia digital
Edition	1
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://www.planningportal.nsw.gov.au/opendata/dataset/b54adc7f-140d-4509-82f5-aa1bf3cb8ad5
Purpose	Identification of in-river hazards and assessment of risk to the environment and human safety in priority areas of NSW estuaries
Status	Completed
Spatial	

representation type	grid
Spatial reference system	
Code identifying the spatial reference system	4283
Spatial resolution	50 cm
Additional information source	NA
Topic category	environment

Keyword set	
keyword value	WATER-Hydrology POLLUTION-Water WATER-Rivers
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
NSW Place Name	Central and Northern 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	2022-01-07
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Not planned
Contact info	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Full postal address	NSW Australia data.broker@environment.nsw.gov.au
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	Data were collected and processed using either;- 1) singlebeam echosounder (SBES) with side scan sonar using a Ceeducer Pro and TopCon HiPer V positioning with RTK and CORS SmartNet corrections in MGA as GDA2020 Zone 56 on AusGeoid2020; Horizontal positional uncertainty typically within 0.25m or better than International Hydrographic Office (IHO) Special Order and Zone of Control (ZOC) A1; vertical uncertainty was within IHO S44 Special Order and ZOC B with Total Vertical Uncertainty (TVU) accepted at +- 0.15m (see individual survey reports); SBES data were collected and processed in Hypack 2020 and reported at 2-2.5m intervals along track relative to either Indian Spring Low Water or Australian Height Datum; 2) Multibeam (MBES) data were collected using a Norbit Winghead i77h MBES with Applanix Oceanmaster with RTK GNSS for tidal and inertial corrections; lines run with 30% overlap and 100% coverage: data reported relative to AHD and as MGA in GDA2020 gridded at 0.5m and/or 1m CUBE and cloud point soundings; horizontal positional uncertainty was reported generally as <0.5m (THU); and vertical (TVU) <0.2 (95% confidence level - see survey specific QC in Survey Summaries). All datasets are provided as gridded bathymetry (xyz as csv or tab delimited text, tif, dxf), point cloud soundings (xyz), sidescan sonar mosaic (tif), coverage polygons, contours and PDF object (identified hazards) or survey (pdf) and Excel summary reports.
Constraint set	
Use constraints	This data is provided under a Creative Commons Attribution 4.0 licence http://creativecommons.org/licenses/by/4.0. Attribute 'NSW Department of Climate Change, Energy, the Environment and Water' in publications using this data.
Limitations on public access	
Responsible party	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
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Metadata date	2024-02-26T13:09:09.791745
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Metadata language
