

Title	Estuary Drainage Catchments
Alternative title(s)	EstuaryDrainageCatchments
Abstract	<p>Estuary Drainage Catchment is the hydrological boundary of the catchment draining to each estuary in NSW. There are two spatial layers - a line feature class (EstuaryDrainageCatchmentBdy) to record the source of the catchment boundaries linework and a polygon feature class (EstuaryDrainageCatchment) to record the surface area of the catchments. Both these layers are based on the digitising of catchments for the NSW Stressed Rivers Assessments conducted for the water sharing plan process. The 1:25,000 topographic map series and coastline layers from the Land and Property Management Authority were the primary datasets, modified by on-screen re-digitising of the true hydrological boundary adjacent to the estuary mouth and coastline. Stressed Rivers boundaries were modified further up-catchment when obvious errors were detected. Land draining directly to the sea has been labelled as 'nil estuary'. These layers provided the initial linework for developing the Estuary Tidal Limits datasets.</p>
Resource locator	
Show on SEED Web Map	<p>Name: Show on SEED Web Map</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Display dataset on SEED's map</p> <p>Function: download</p>
Data Quality Statement	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>DQS - Estuary Drainage Catchments</p> <p>Function: download</p>
WMS - Estuary Drainage Catchments	<p>Name: WMS - Estuary Drainage Catchments</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Connect to Web Map Service (view in GIS)</p> <p>Function: download</p>
Land EstuaryDrainageCatchment	<p>Name: Land EstuaryDrainageCatchment</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Download Shapefile</p> <p>Function: download</p>
Connect to KML service (view in Google Earth)	<p>Name: Connect to KML service (view in Google Earth)</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Connect to KML service (view in Google Earth)</p> <p>Function: download</p>
Connect to REST Service (JSON, SOAP)	<p>Name: Connect to REST Service (JSON, SOAP)</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p>

Function: download

Unique resource identifier

Code 1e1d5de5-2557-4355-82ba-a99dc0274556

Presentation form documentDigital

Edition Not known

Dataset language eng

Metadata standard

Name ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

Version 1.1

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/1e1d5de5-2557-4355-82ba-a99dc0274556>

Purpose This estuary dataset was developed under a new Monitoring, Evaluation and Reporting (MER) Program initiated by the NSW Government in 2007 to assess and better manage the health of natural resources across the State. The MER Program is in response to the NSW Natural Resources MER Strategy which has the objective of providing appropriate information for decision-making by natural resource managers.

Status completed

Spatial representation

Type vector

Geometric Object Type curve

Geometric Object Count 275

Spatial reference system

Authority code GDA94 Geographic (Lat\Long)

Code identifying the spatial reference system 4283

Equivalent scale 1:None

Additional information source This mapping was done as part of the NSW Monitoring Evaluation and Reporting Program - Estuaries Theme
REPORT_NSWEstuariesCatchments.doc

Topic category oceans

Keyword set

keyword value

- BOUNDARIES
- MARINE-Estuaries
- WATER
- WATER-Hydrology

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	149.872924
East bounding longitude	153.621636
North bounding latitude	-37.468817
South bounding latitude	-28.169266
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	2007-12-04
End position	N/A
Dataset reference date	
Date type	creation
Effective date	2008-04-24
Date type	publication
Effective date	2010-07-23
Resource maintenance	
Maintenance and update frequency	asNeeded
Date of next update	2011-12-31
Contact info	
Organisation name	Department of Planning, Industry and Environment
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Responsible party role	pointOfContact

Lineage

The Stressed Rivers Assessment mapping (ANZLIC metadata No: ANZNS0359000798) provided the foundation for the estuarine catchment boundaries. The combined hydrological catchments of the Stressed Rivers mapping were separated and defined using NSW 1:25,000 10m contours plus other dataset's SPOT5 imagery (ANZNS0281000254), orthorectified image mosaics (ANZNS0404001267), NSW DTDB landform contours (ANZNS0404000853). Any new catchment boundaries were screen digitised. The two layers were developed by combining the spatial features of existing datasets - Stressed Rivers Subcatchments, Coastline (mean high watermark) and Bay mouths. Of these datasets the Stressed Rivers Subcatchments and Coastline were the primary datasets used to define these catchments. In the majority of cases the Stressed Rivers Subcatchment boundaries were used unchanged however, there were instances where catchments have been combined (merged) or subdivided because they did not represent the true hydrological catchment/watershed. These adjustments have resulted in a spatial layer that accurately represents the hydrological estuarine catchments.

Boundaries from the Stressed Rivers Subcatchment layer have been accepted as being correct however, some boundaries were identified as incorrectly representing catchments and in these instances they were adjusted through on screen digitising using spatial data including Topographic contour and drainage lines along with imagery and DEM. This process was not performed uniformly across the dataset only where problems were identified. There still exists boundaries that are 40-50m out and in some instances this error may be greater.

It was also difficult in the flatter areas adjoining the coast to identify the boundary between the catchment and beach area. In these instances where the contour or DEM information was not useful the boundary has been captured parallel to the beach on the assumption that a sand dune exists. Further delineation of this boundary could be possible through the use of LiDAR or survey data. This level of accuracy is not required at this time.

Investigation of macrophyte areas (Estuarine_Macrophytes) revealed several macrophyte occurrences outside of the catchments as defined earlier. These occurrences were investigated resulting in changes to several boundary locations. For example, Bowen Island as defined by the Bay mouths theme was altered to encompass the macrophyte information. Catchments where macrophyte information has altered the boundary include: Jervis Bay, Little Lake (Wallaga), Macleay River, Manning River, Meroo Lake, Sandon River, Tweed River.

Constraint set

Use constraints

This data is provided under a Creative Commons Attribution 4.0 licence <http://creativecommons.org/licenses/by/4.0> Attribute 'Department of Planning, Industry and Environment ' in publications using this data.

Limitations on public access

Scope	dataset
Completeness Commission	
Date type	revision
Effective date	2009-01-10
Explanation	The dataset is complete.
Completeness Omission	
Date type	revision
Effective date	2009-01-10
Explanation	
Conceptual Consistency	
Explanation	Topological consistency is performed as part of the quality assurance procedures using ESRI ArcGIS software where polygons must not overlap; must not have gaps. Check geometry and repair geometry were run with no error messages.
Absolute External Positional Accuracy	
Explanation	The catchment boundaries have been based on the Stressed Rivers Catchment boundaries (SRC bdy). In some cases the SRC bdy have been merged to make larger catchments, whilst others have been subdivided. In other cases the location of the boundary has been altered. In carrying out this work the topographic drainage and contour layers have been referenced. On closer inspection of some of the SRC bdy (South Coast only) with topographic information of contour and drainage layers it is evident that the boundary may not always be correctly located. This error can be as minor as 40 - 50m or occasionally greater.
Non Quantitative Attribute Accuracy	
Explanation	NAME: Catchment names were checked against the Geographic Names Board (GNB) names to get consistency between the GNB and coastal estuaries mapping. ESTUARY_NO: Estuary number is a unique number for each NSW estuary, with numbering from north to south and anti-clockwise around bays/harbours finishing with the bay/harbour/port polygon. TYPE: denotes whether the polygon is land (catchment), freshwater, tidal waters (estuarine). MGAZONE: provides details of the single or multiple MGA transvers mercator map projection zone a catchment falls into. AREA_m2_z55, AREA_Ha_z55: Area of the polygon in the associated MGA zone. AREA_m2_z56, AREA_Ha_z56: Area of the polygon in the associated MGA zone. NOT_MER: those with '1' in this column indicates the estuary does not have waterway area shown on the 1:25,000 topographic map. and therefore is not being included as part of the State MER program.

Responsible party

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Responsible party role	pointOfContact

Metadata point of contact

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Responsible party role	distributor

Metadata date 2008-04-24

Metadata language eng