## Title

NSW Blue Carbon Permanency in Belowground Sediments

## Abstract

Permanency is defined as the capacity for carbon to be preserved and not reworked under conditions of higher hydrodynamic energy associated with storms and changes to tidal regimes. The permanency of carbon within substrates has been questioned (DeLaune and White, 2012; Kirwan and Mudd, 2012), particularly in the context of increased storminess. This component does not specifically indicate retreat pathways for coastal ecosystems as they respond to sea-level rise. Lower elevations on estuarine shorelines may be exposed to greater hydrodynamic energy due to fetch and wave-action, whilst coastal barrier sediments are more exposed to high wave energy of the open ocean; the exposure of these sediments to higher hydrodynamic energy increases the probability of reworking and poses considerable risk to carbon permanency.

*DeLaune, R., and White, J. (2012). Will coastal wetlands continue to sequester carbon in response to an increase in global sea level?: a case study of the rapidly subsiding Mississippi river deltaic plain. Climatic Change 110, 297-314.*

*Kirwan, M.L., and Mudd, S.M. (2012). Response of salt-marsh carbon accumulation to climate change. Nature 489, 550-553.*

## Resource locator

| | |
|---|---|
| Show on SEED Web Map | Name: Show on SEED Web Map<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Display dataset on SEED's map<br>Function: download |
| NSW Blue Carbon Permanency in Belowground Sediments | Name: NSW Blue Carbon Permanency in Belowground Sediments<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>NSW Blue Carbon Permanency in Belowground Sediments - DQS<br>Function: download |
| Metadata statement | Name: Metadata statement<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>ANZLIC Metadata statement for NSW Blue Carbon Permanency in Belowground Sediments<br>Function: download |
| NSW Blue Carbon Permanency in Belowground Sediments | Name: NSW Blue Carbon Permanency in Belowground Sediments<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Dataset Package for NSW Blue Carbon Permanency in Belowground Sediments. Includes tif, shp and lyr file.<br>Function: download |
| WMS - NSW Blue Carbon Permanency in Belowground Sediments | Name: WMS - NSW Blue Carbon Permanency in Belowground Sediments<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Connect to WMS<br>Function: download |

## Unique resource identifier

| | |
|---|---|
| Code | 0eb0efb6-03bb-4d7c-804c-6e8ff6069edf |

## Presentation form

## Dataset language

English

## Metadata standard

| | |
|---|---|
| Name | ISO 19115 |
| Edition | 2016 |

## Dataset URI

https://datasets.seed.nsw.gov.au/dataset/0eb0efb6-03bb-4d7c-804c-6e8ff6069edf

## Spatial representation

| | |
|---|---|
| Type | vector |

## Spatial reference system

| | |
|---|---|
| Code identifying the spatial reference system | 4283 |

## Topic category

## Keyword set

keyword value

Originating controlled vocabulary

| | |
|---|---|
| Title | ANZLIC Search Words |
| Reference date | 2008-05-16 |

## Geographic location

| | |
|---|---|
| West bounding longitude | 149.694555 |
| East bounding longitude | 153.687131 |
| North bounding latitude | -37.541561 |
| South bounding latitude | -28.13715 |

## 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 | 2020-05-16 |
| End position | N/A |

## Dataset reference date

## Resource maintenance

| | |
|---|---|
| Maintenance and update frequency | Unknown |

Contact info

| | |
|---|---|
| Contact position | Data Broker |
| Organisation name | Department of Primary Industries and Regional Development (DPIRD) |
| Responsible party role | pointOfContact |

Limitations on public access

## Responsible party

| | |
|---|---|
| Contact position | Data Broker |
| Organisation name | Department of Primary Industries and Regional Development (DPIRD) |
| Responsible party role | pointOfContact |

| Metadata point of contact | |
|---|---|
| Contact position | Data Broker |
| Organisation name | Department of Primary Industries and Regional Development (DPIRD) |
| Responsible party role | pointOfContact |
| Metadata date | 2022-05-16T02:23:35.895557 |
| Metadata language | |