Acknowledgement of Country

Transport for NSW acknowledges the traditional custodians of the land on which we work and live.

We pay our respects to Elders past and present and celebrate the diversity of Aboriginal people and their ongoing cultures and connections to the lands and waters of NSW.

Many of the transport routes we use today – from rail lines, to roads, to water crossings – follow the traditional Songlines, trade routes and ceremonial paths in Country that our nation's First Peoples followed for tens of thousands of years.

Transport for NSW is committed to honouring Aboriginal peoples' cultural and spiritual connections to the lands, waters and seas and their rich contribution to society.

Transport Open Data

opendataprogram@transport.nsw.gov.au
opendata.transport.nsw.gov.au

Table of Contents

Document control

Authors	Data & Apps Program Lead, Open Data & Innovation
Document owner	Director, Maritime Insights & Operational Coordination
Approved by	Director, Maritime Insights & Operational Coordination, NSW Maritime
Document number	v2.0
Branch	NSW Maritime
Division	Coordinator General

Versions

Version	Amendment notes
v2.0	Inclusion of metadata for Spatial datasets and updated ODI template

1. Definitions

Term	Definition
csv	(Comma-Separated Values): A plain text file format used to store tabular data, where each line represents a row and columns are separated by commas.
geoJSON	A JSON-based format used to encode geographic data structures such as points, lines, and polygons.
GIS	(Geographic Information System): A system used to collect, manage, analyse, and visualise spatial or geographic data, often used for mapping and decision-making.
JSON	(JavaScript Object Notation): A lightweight data format used for storing and exchanging structured data, commonly used in web applications.
kml	(Keyhole Markup Language): An XML-based file format used to display geographic data in mapping software like Google Earth.
shapefile	A widely used geospatial vector data format for geographic information system (GIS) software, typically containing points, lines, or polygons and associated attributes.

2. Maritime NSW Shallow Water

This Dataset provides areas of assumed shallow water. Shallow water is defined as a contour with depth of less than approximately 2 metres in tidal waters and the shallower water in inland waters at full supply.

Data formats include:

- API
- csv
- geoJSON
- JSON
- kml
- shapefile

The dataset also includes an interactive map which allows for simple querying of the data and provides a visualisation of the locations.

Data is refreshed on a weekly basis.

3. Data Structure

3.1 Shallow Water API

Field Name	Data Type	Field Description
DESCRIPTION	string	Description of the feature
REF_ID	Number	Unique feature Identifier
PUBLISH_DATE	Date	Date data last updated as Open Data

3.1.1 Sample API Feed

```
"type": "FeatureCollection",

"features": [
 {
   "type": "Feature",
   "geometry": {
   "type": "MultiPolygon",
   "coordinates": [
    [
     [
      [
         151.202304,
         -33.641618
        ],
        [
        151.202668,
        -33.643706
        ],
        [
        151.203374,
        -33.64216
        ],
        [
        151.202304,
        -33.641618
        ]
      ]
     ]
    ]
   },
    "properties": {
    "cartodb_id": 10589,
    "crc": "563BB41FEA667CB8",
    "description": "Shallow water",
    "publish_date": 20230801,
    "ref_id": 17525
    }
  }
```

3.2 Sample JSON Feed

```
[
        {
                "json_featuretype" : "Maritime_Shallow_Water",
                "CONTOUR" : 2,
                "Shape_Length" : 0.14113602570029812,
                "Shape_Area" : 0.00010235449694999475,
                "json_ogc_wkt_crs" : "PROJCS[\"GDA2020 / NSW
Lambert\",GEOGCS[\"GDA2020\",DATUM[\"Geocentric_Datum_of_Australia_2020\",SPHEROID[\"GR
S
1980\",6378137,298.257222101,AUTHORITY[\"EPSG\",\"7019\"]],AUTHORITY[\"EPSG\",\"1168\"]],PRI
MEM[\"Greenwich\",0,AUTHORITY[\"EPSG\",\"8901\"]],UNIT[\"degree\",0.0174532925199433,AUTH
ORITY[\"EPSG\",\"9122\"]],AUTHORITY[\"EPSG\",\"7844\"]],PROJECTION[\"Lambert_Conformal_Coni
c_2SP\"],PARAMETER[\"latitude_of_origin\",-
33.25],PARAMETER[\"central_meridian\",147],PARAMETER[\"standard_parallel_1\",-
30.75],PARAMETER[\"standard_parallel_2\",-
35.75],PARAMETER[\"false_easting\",9300000],PARAMETER[\"false_northing\",4500000],UNIT[\"me
tre\",1,AUTHORITY[\"EPSG\",\"9001\"]],AXIS[\"Easting\",EAST],AXIS[\"Northing\",NORTH],AUTHORIT
Y[\"EPSG\",\"8058\"]]",
                "json_geometry" : {
                        "type" : "Polygon",
                        "coordinates" : [
                                [
                                        [ 9940171.0358335022, 5046009.4168237038 ],
                                        [ 9940183.0896842871, 5045991.7035148628 ]


                                ]
                        }
                }
        }
```

3.3 Interactive Map