



**Title** North Eastern Tasmania Marine Habitats–1:25000

**Custodian** Tasmanian Aquaculture and Fisheries Institute  
Marine Research Laboratories, Taroona

**Jurisdiction** Tasmania

## Description

### Abstract

The North Eastern Tasmania marine habitat layer1: 25,000 depicts marine habitats from Swan Island [148° 20', -40° 40'] to St Helens Point [148° 20', -41° 20']. The habitat types depicted in the dataset include rocky reef, sand, hard sand and seagrass. The data was collected from November 2003 to October 2004 by marine researchers at the Tasmanian Aquaculture and Fisheries Institute. The use of underwater camera equipment, echo sounder data, side scan sonar and a Differential GPS unit allowed for the extensive area to be surveyed. The dataset is intended to be used to fulfil coastal management objectives according to *The Living Marine Resources Act 1995*.

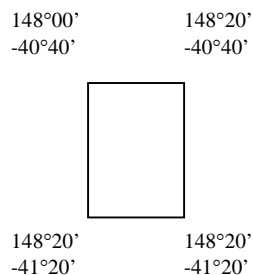
## ANZLIC Search Words

Boundaries Biophysical  
Fisheries  
Fisheries Aquaculture  
Fisheries Marine  
Marine Coasts  
Marine Reefs

## Bounding Coordinates

Geographic Extent Name: Tasmania [-40.40 -41.20 148.00 148.20]

Geographic Extent Coordinates:



## Dataset Currency

Beginning Date 01 11 2003

Ending Date 30 10 2004

## Dataset Status

Progress: Planned  
Maintenance and Update: Irregular

## Dataset Access

Stored Data Format DIGITAL: GIS ESRI shapefiles, MAPINFO shapefiles  
Available Format Type DIGITAL: GIS ESRI shapefiles, MAPINFO shapefiles  
Access Constraints All graphical and digital data produced by the Tasmanian Aquaculture and Fisheries Institute are subject to Crown Copyright. Accordingly, it is a requirement that all digital data be distributed with a Digital Data Licence Agreement or a Memorandum of Understanding in the case of Government clients. These agreements will define the terms and conditions under which the client may use the data.

## Data Content

Data Type GIS  
Parameters Biological, Physical  
Equipment Equipment employed to record and measure the data included ES 60 Scientific sounder, Sony digital colour camera unit (with sled) and an Omnistar 132 Light Differential GPS unit.  
Habitat Description Habitats identified: [Low profile Reef, Patchy Reef, Sand, Hard Sand, Seagrass].  
Sample Method Areas were sampled following transects in from the 40metre contour line to the coastline. The sampling method resembled a "zigzag" pattern at 100m intervals.  
Sample Intensity The GPS recorded depth and position regularly at 2 second intervals to generate a point dataset of 1,000 000 points. Sampling effort was increased in areas that demonstrated complex habitat composition.

## Data Quality

Lineage The point dataset was checked for extraneous data, cleaned and converted to a point coverage using *ESRI ARCVIEW Version 3.2*. The point data was used to interpret boundaries and formed the basis of a polygon coverage that was generated from the data. Selected aerial photographs were scanned at 600dpi and stored as 24bit colour TIFF images. Each was georeferenced using *ESRI ARCINFO Version 9* to the Tasmanian Coastline coverage in AGD66. The point data was overlaid on the aerial photographs to check for continuity especially in generating the reef habitat polygons. The generated polygon coverage was edge matched to the 1:25000 coastline shape. The 1:25000 coastline was supplied by the Land Information Services Division of the Department of Primary Industry, Water and Environment Tasmania.

Positional Accuracy The positional accuracy of the GPS was found to vary 1.5m in the horizontal plane when left to record for a period of 60minutes.

Attribute Accuracy The attributes assigned to the 1:25000 Habitat Mapping Series were based on the interpretation of the acoustic signal using EchoView software (Sonar Data TM). These attributes were cross-referenced with underwater video information used to ground truth the sounder interpretations.

Logical Consistency All data has been checked for duplicate features, extraneous points, unclipped polygons and unattributed polygons by both visual and automated means.

Completeness The South Eastern Tasmania marine habitat dataset is complete from the coastlines to the 40m-depth contour or to 20m depth when 800m from shore was reached, from Swan Island to St Helens Point.

## Contact

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