

# Developments in Australia e-Nav Underway 2013

Nick Lemon (AMSA)



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# **Presentation Outline**

- What is MSP?
- MSP in Australia in general
- Water Space Management NW and NE Australia
- Tools for MSP AMSIS and S-10X
- Conclusions



# What is MSP?

EC – MSP is about planning **and regulating** all human uses of the sea, while protecting <u>marine ecosystems</u>. It focuses on marine waters under national jurisdiction and is concerned only with <u>planning</u> activities at sea. It does not cover management of coastal zones or spatial planning of sea-land interface.



# What is MSP?

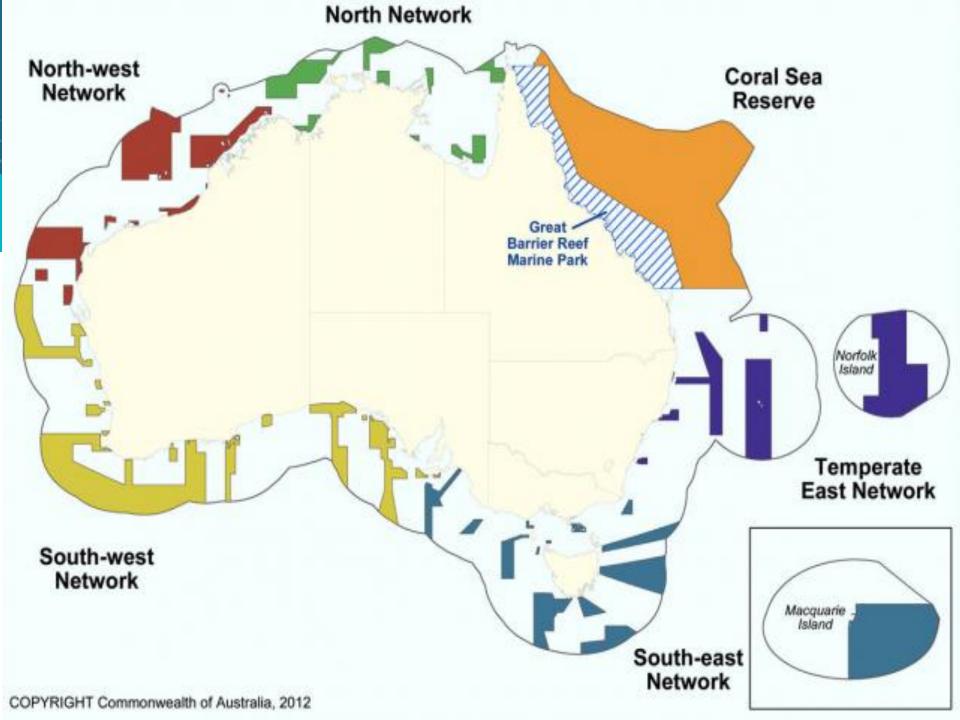
UNESCO – MSP is a **public process** of analyzing and allocating the spatial and temporal distribution of human activities in marine areas to achieve ecological, economic and social objectives that have been specified through a political process.

Management v's Planning - Planning is one element of a larger process, which includes implementation, enforcement, monitoring, evaluation, research, public participation, and financing—all of which must be present to carry out effective management over time.



# MSP in Australia in general

- MSP well advanced where its been done for ecological reasons, or in some areas where the main purpose has been for coastal zone management.
- As in other places MSP processes have not always adequately addressed shipping or maritime safety.
- AMSA has been engaged in many elements of MSP, but we have previously focused on discrete locations, or regions.
- AMSA formalizing MSP for shipping and maritime safety in the form of a national coastal shipping management plan.





# **MSP** in Australia

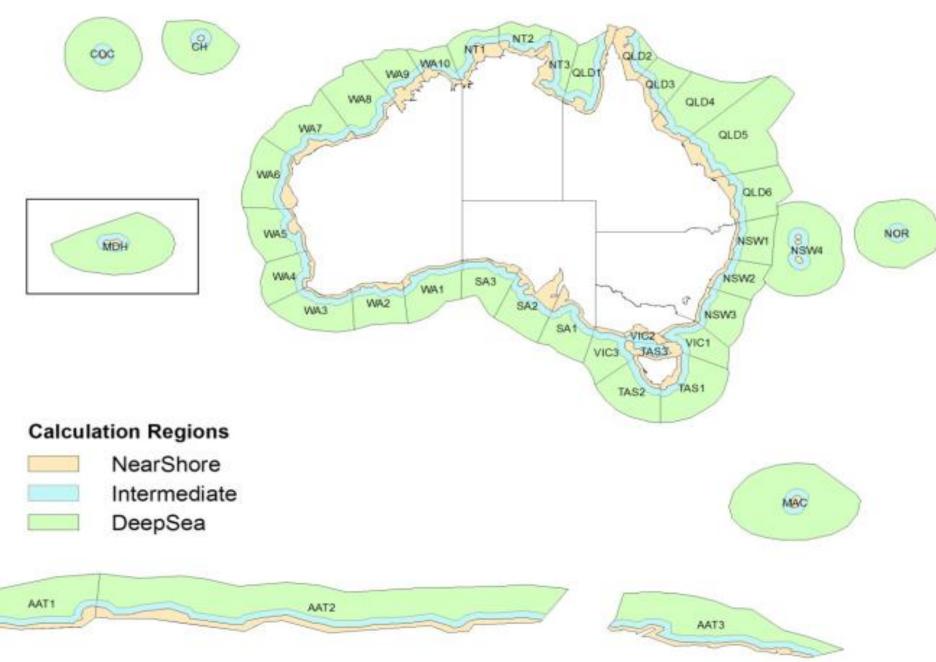
The Australian Great Barrier Reef Marine Park (GBRMP), well known example of marine park zoning.

Encompasses 2,300 km of coastline and is one of the world's richest and most diverse marine ecosystems.

The GBRMP covers approximately 344,400 km<sup>2</sup>, making it one of the largest marine protected areas in the world.

http://www.unesco-iocmarinesp.be/spatial\_management\_practice/aust ralia\_great\_barrier\_reef



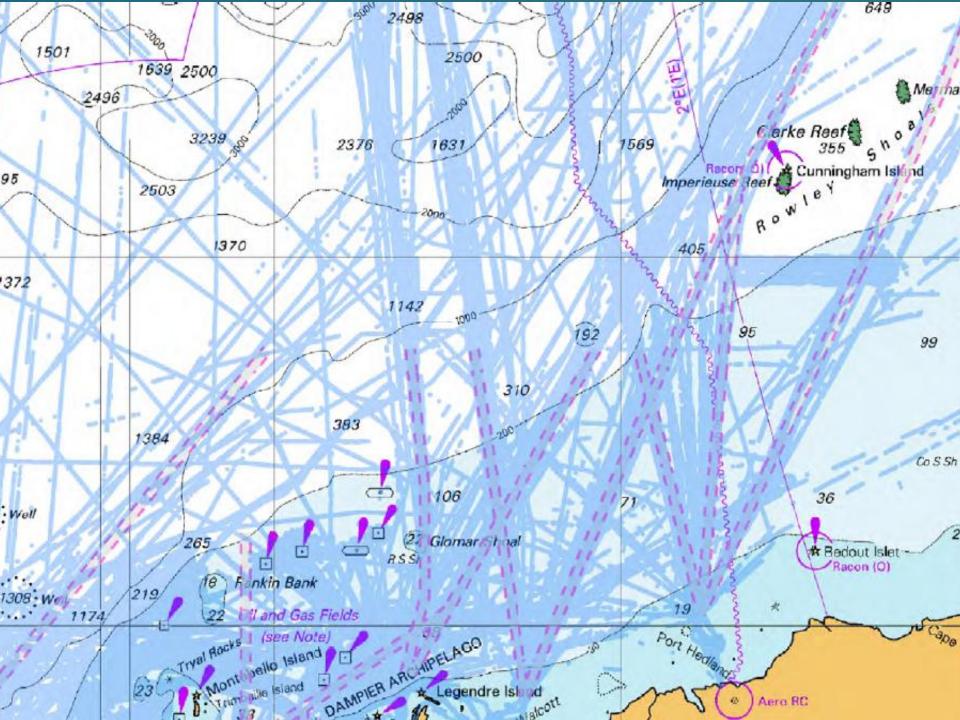


**AUSTRALIAN COASTAL SHIPPING MANAGEMENT PLAN** 

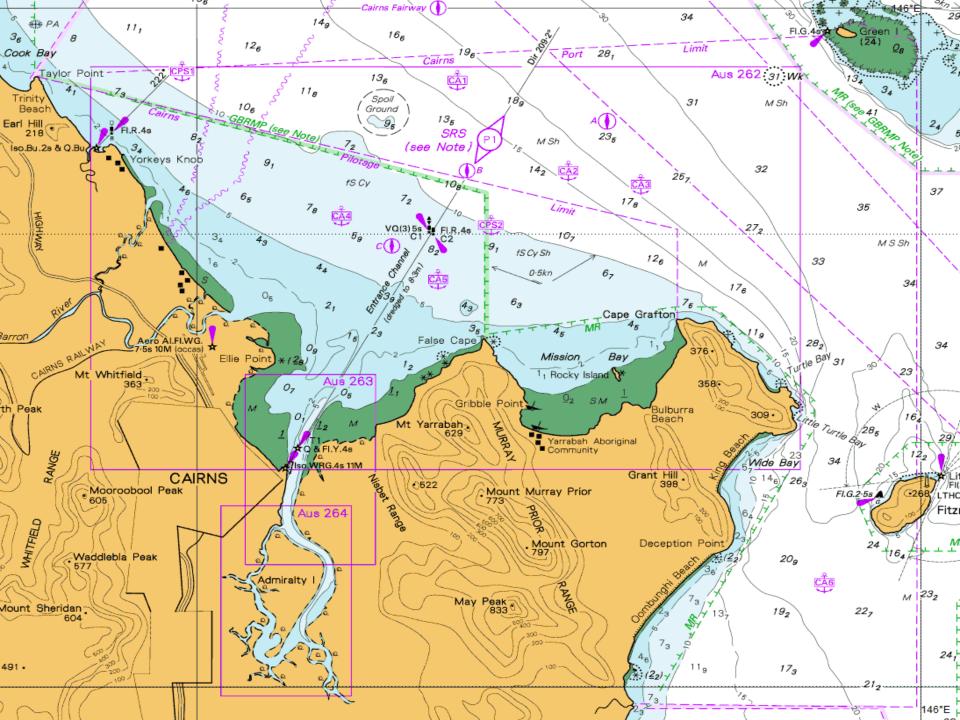


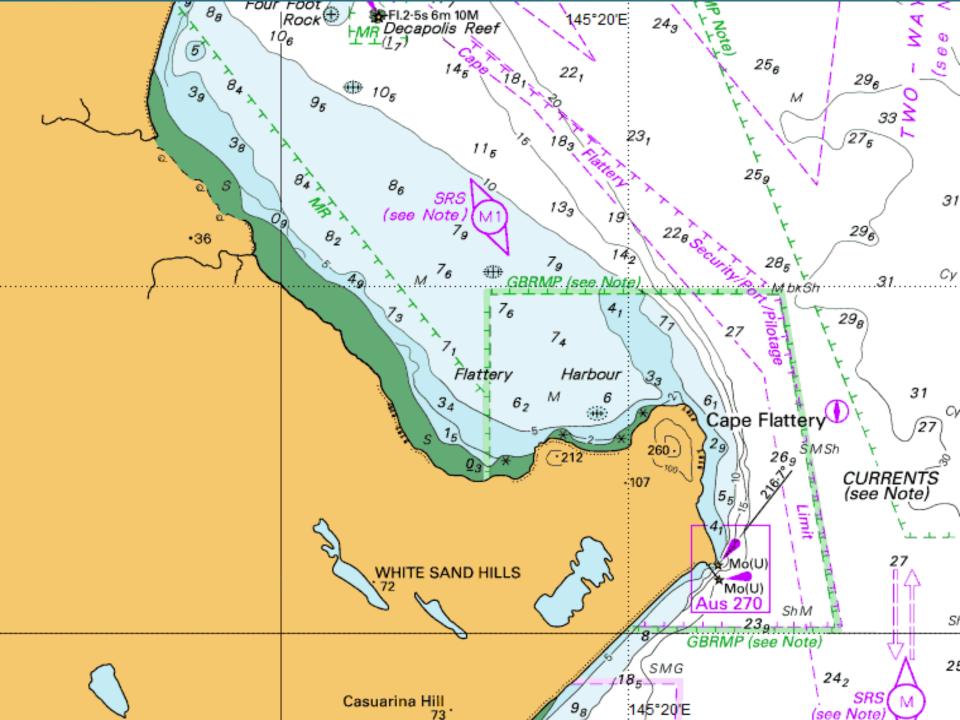
# Water Space Management

- NW Shipping Management Plan
- NE Shipping Management Plan and the NE WSM Working Group
- Examples of issues 'unearthed':
- Port/pilot limits and shipping routes





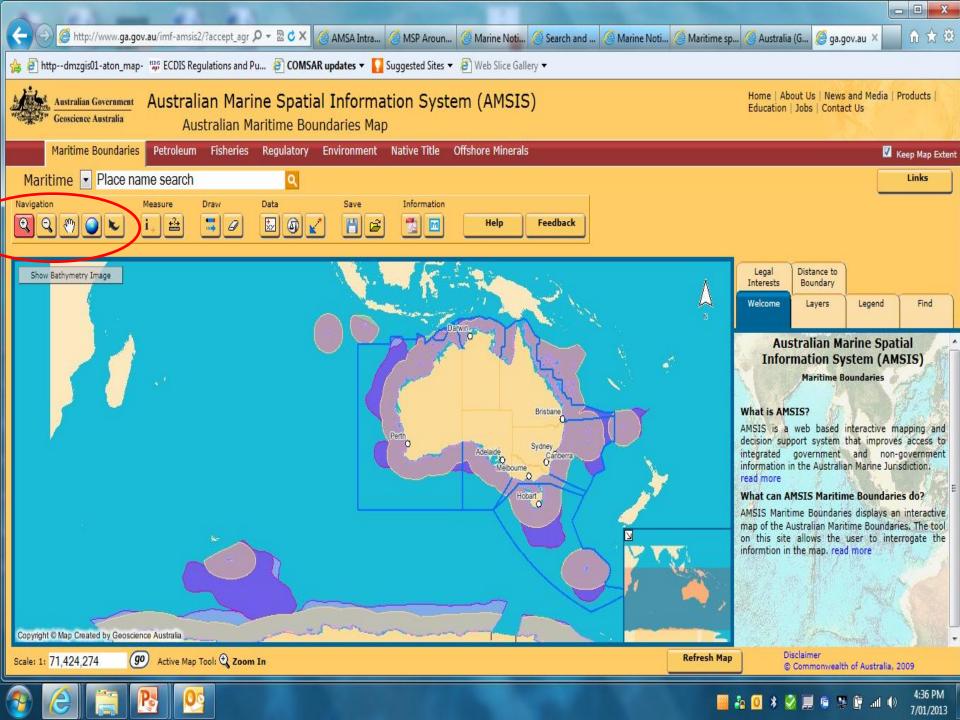


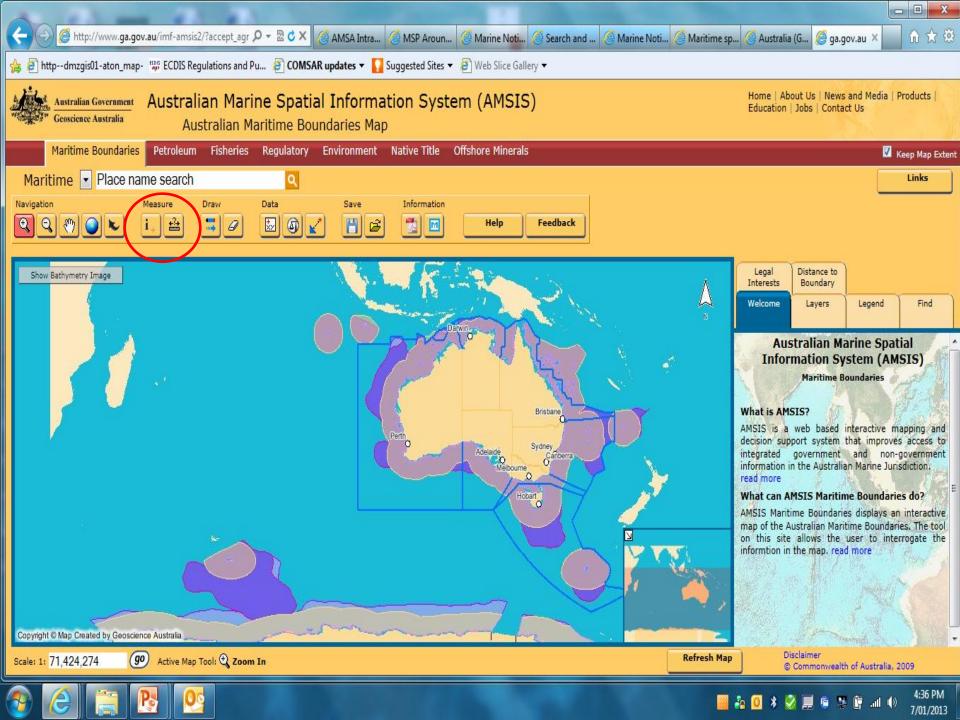


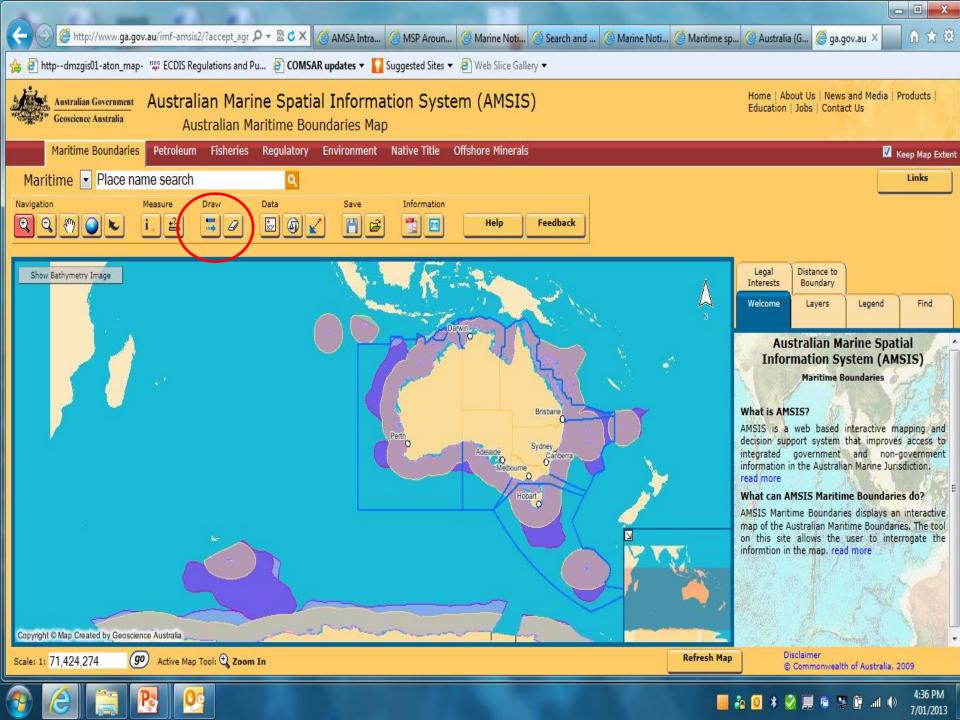


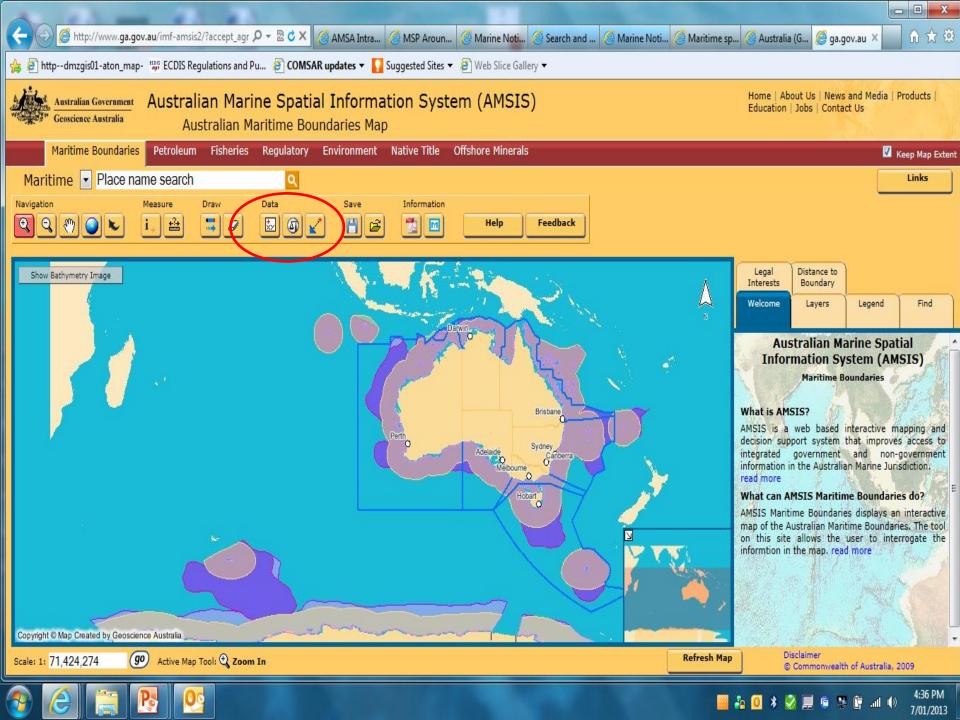
# Tools for MSP - AMSIS

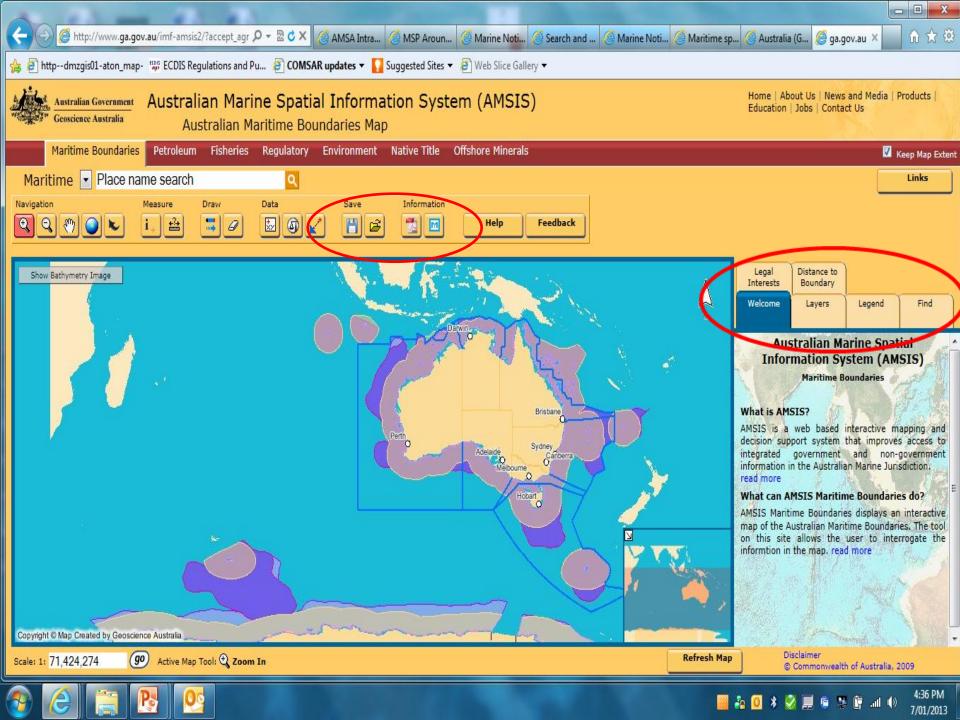
- Australian Maritime Spatial Information System AMSIS
- a web based interactive mapping and decision support system that improves access to integrated government and non-government information
- contains layers of information displayed in themes of Maritime Boundaries, Petroleum, Fisheries, Regulatory, Environment, Native Title and Offshore Minerals.
- Information displayed can be interrogated for further details and deeper understanding













Australian Government Australian Marine Spatial Information System (AMSIS)

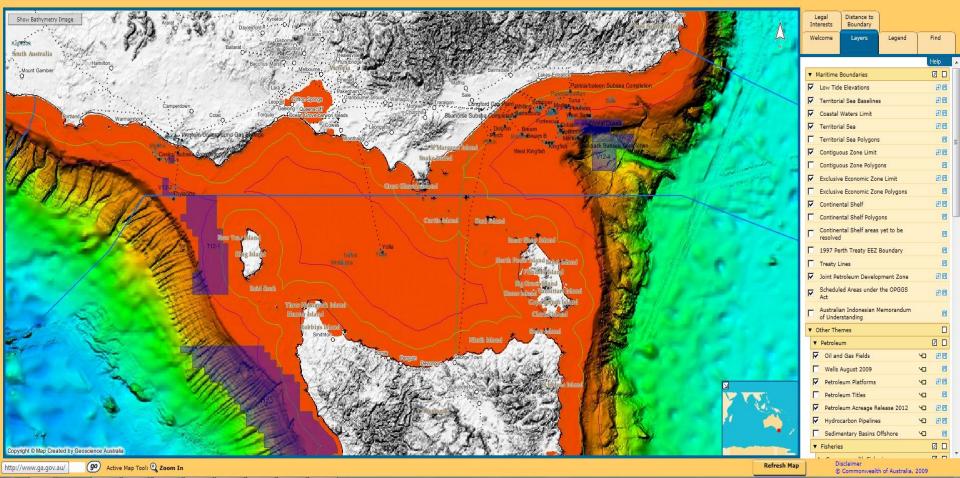
Australian Maritime Boundaries Map

Maritime Boundaries Petroleum Fisheries Regulatory Environment Native Title Offshore Minerals

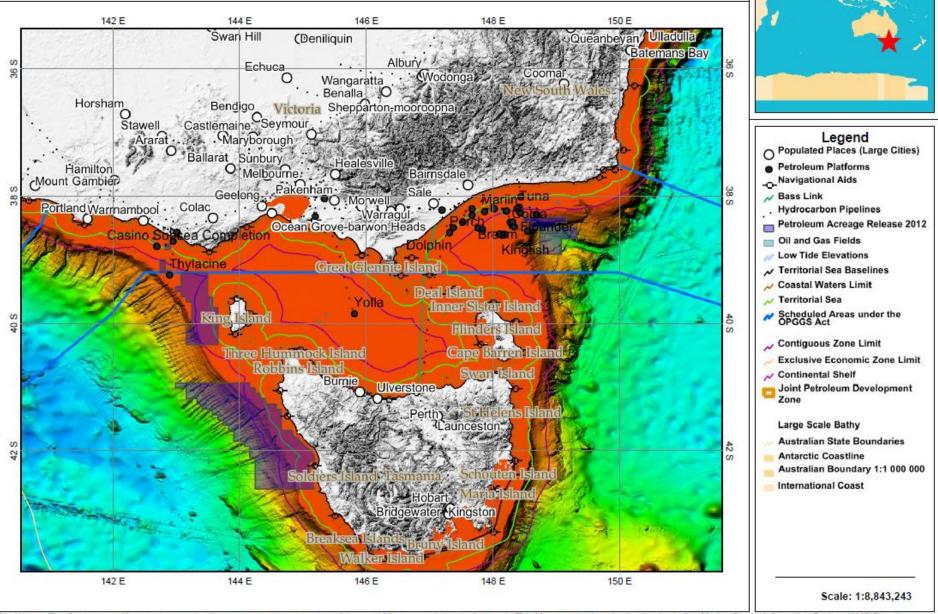
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#### **Bass Strait**



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Acknowedgement: This Map was produced using the Australian Marine Spatial Information System (AMSIS) web mapping facility provided by Geoscience Australia. AMSIS incorporates data provided by various Commonwealth government agencies and private sector organisations. For details or contributors refer to http://www.ga.gov.au/amsis/datacontributors.jsp. Maps produced using AMSIS may also incorporate information provided by the end users of AMSIS.



# Tools for MSP — S-10X

- Why do we need a new international digital maritime boundary product specification?
- Exchange by paper charts and lists of coordinates is limited by scale and volume of information
- Digital data transfer is increasingly ubiquitous
- A standard will be useful for ease of exchange and reduce limitations
- There are none in existence, as yet



#### Conclusions

- MSP relatively advanced for ecological purposes but less advanced for shipping and maritime safety
- AMSA is increasingly adopting MSP principles a national coastal shipping management plan
- Water Space Management
  - consultative problem solving
  - needs tools, such as AMSIS
- Geoscience Australia engaged internationally to advance the establishment of an international digital maritime boundary product specification (S-10x)



### Conclusions

- International development a new Global Ocean Commission to be based at Somerville College, Oxford, UK and to be officially launched on 12 February at an event in London.
  - High seas issues
  - Governance and management
  - Key maritime bodies and stakeholders to be involved
  - Supported by influential political, business and philanthropic individuals/organisations

