



**Marine and Tropical Sciences Research Facility (MTRSF)  
February 2008 Milestone Report**

**Project 1.1.5 – Reef Atlas: Risk, Resilience and Response**

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**Summary**

Work on the Reef Atlas has commenced in all aspects. The structure of the site is decided, a Home page is about to be completed, the GIS tools are being developed, and text pages are being produced. Some of the most important data sets have been compiled, and converted into gridded data through statistical tools for graphic display in the Atlas. Long-term data storage is being organised through EDS and the AIMS Data Centre / Obis meta data system will be used for cataloguing.

**Project Outputs / Milestones 2007/2008**

Objective	Targeted Activity	Completion Date
(a)	Review, compile and prioritise data sets, establish long-term data storage and meta data through the Data Centre	December 2007
(b)	Develop a framework for integrated web-based mapping of spatial and process-based data from GBR related research	June 2008
(c)	Statistical analysis and synthesis of selected GBR biodiversity and environmental data, with particular emphasis on threats and risks (water quality, temperature), and the biological implications for the GBR zoning system (Proof of concept for the ReefAtlas).	June 2008

**For reference: Milestone extracted from Project Schedule**

Date 01-02-08

Progress update for objective a (above): what data sets are being investigated; justification and choice of methodology [AIMS]

## Project Results

### Description of the results achieved for this milestone

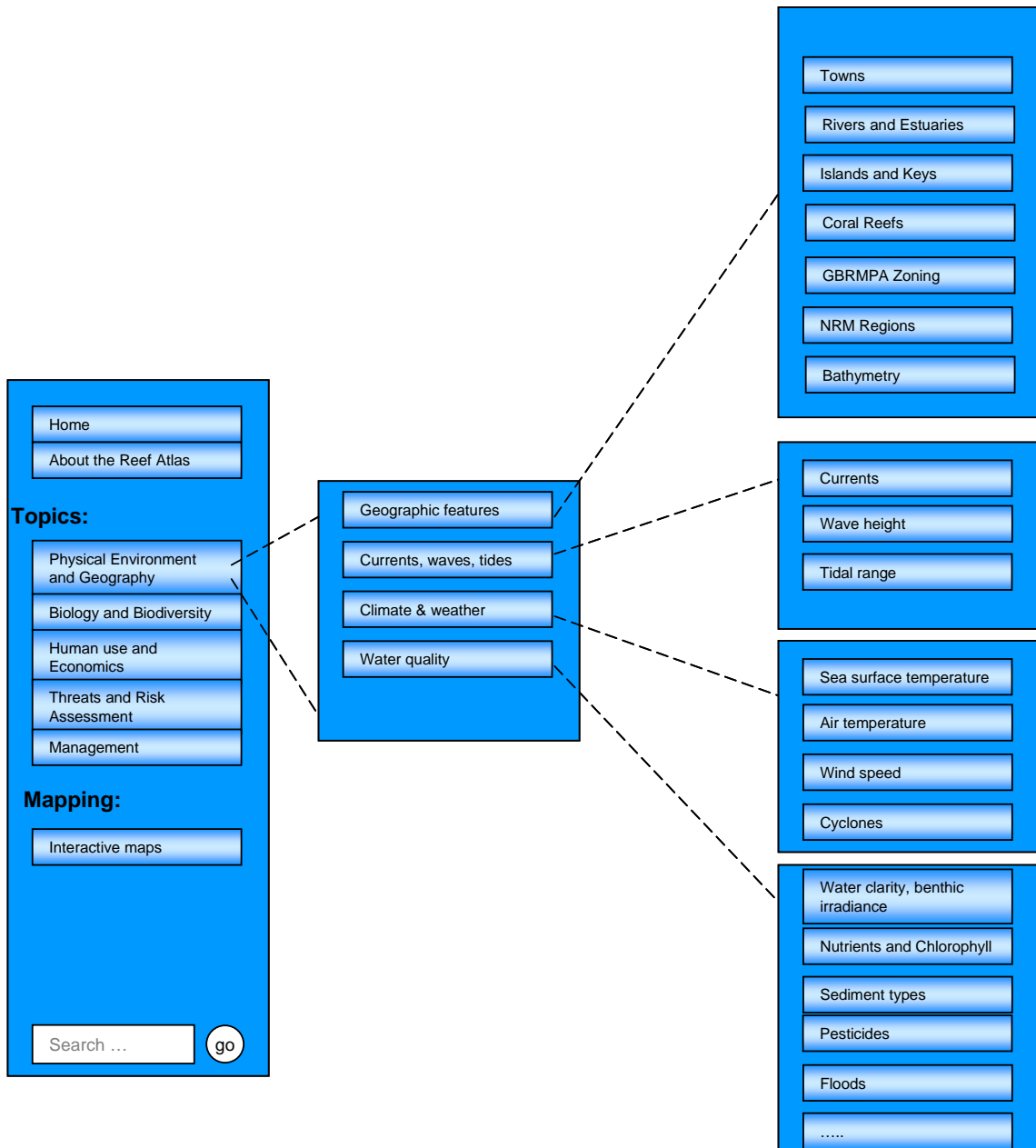
This project is on track. The structure of the site is decided (Figs. 1a and b). A Home page is about to be completed (contracted to Tim Donovan). We have decided to use ArcGIS-Server software and Cold Fusion for the production of the Atlas, due to advantages in flexibility and costs. The GIS tools are being developed, and we have the first geographic, biodiversity and water quality layers incorporated. Text pages are also being produced and converted into web pages. Some of the most important data sets have been compiled, and converted into gridded data through statistical tools for graphic display in the Atlas. Long-term data storage is being organised through EDS and the AIMS Data Centre / Obis meta data system will be used for cataloguing.

In the first instances, the Interactive GIS maps will consist of:

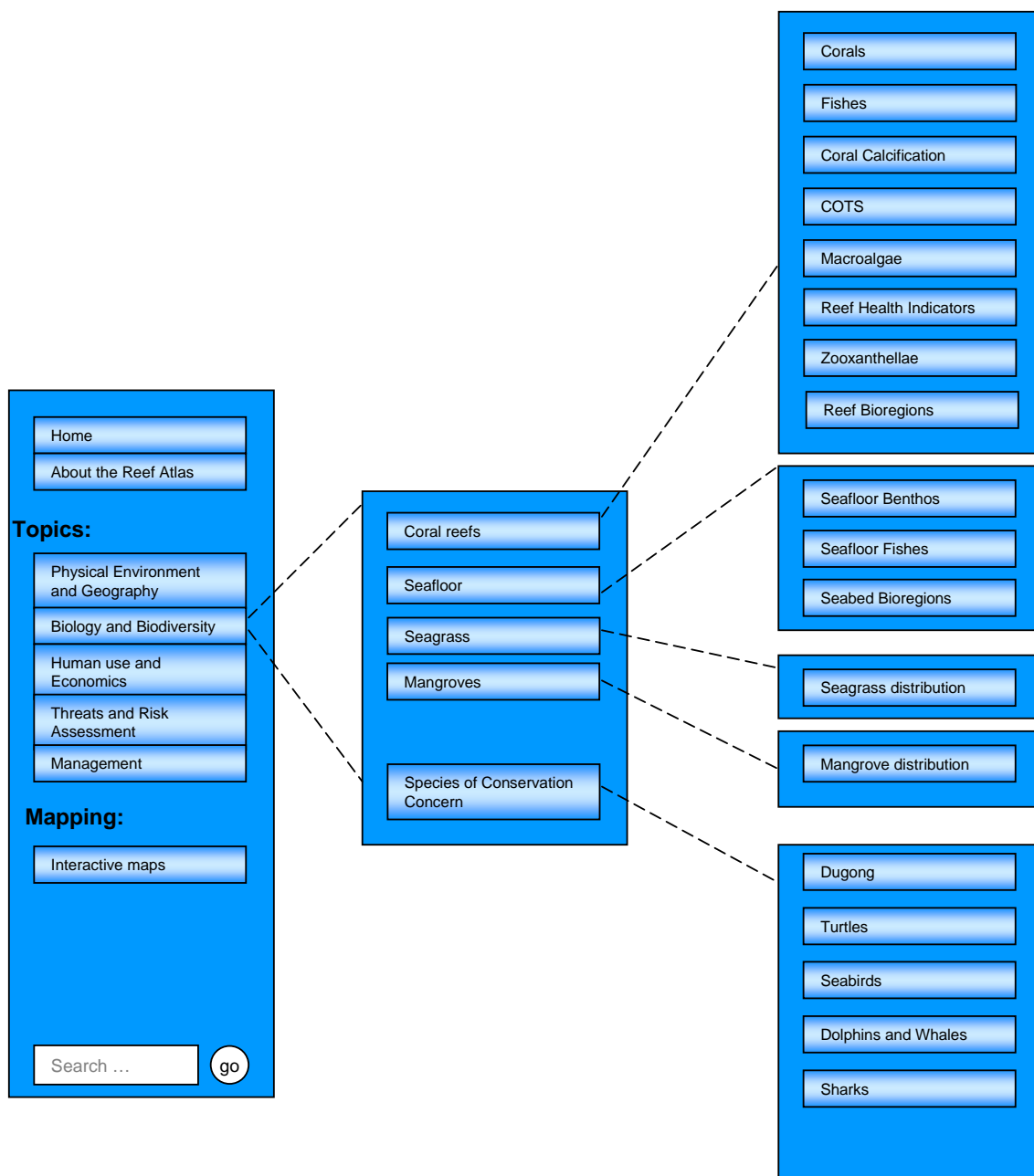
- Distribution data
- Reliability data
- Risk maps or Hotspot maps
- Summary stats (as tables or bar charts)
- Location of sample points
- Meta data info for each layer

The text ('Story') pages will consist of:

- Topic summary
- Methods, data sources
- Findings explained
- Summary stats
- .png maps
- Links to other sites
- Links to live feeds (e.g., weather stations)
- Links to reports



**Fig. 1a:** Overview of some of the type of data that might be displayed by interactive maps and explained by text pages in the Reef Atlas. Here: a list of the geographic and physical data.



**Fig. 1b:** Overview of some of the type of data that might be displayed by interactive maps and explained by text pages in the Reef Atlas. Here: a list of the biological and biodiversity data shown. Similar lists and hierarchical structures are being developed for the other groups (human use and economics, threats and risk assessment, and management).