

NRM South Climate Change & Coastal Response Information

RESOURCES

Chris Sharples Reports available at <http://www.dpiw.tas.gov.au/inter.nsf/WebPages/PMAS-6B56BV?open>

- Indicative Mapping of Tasmanian Coastal Vulnerability to Climate Change and Sea Level Rise: Explanatory Report
- Indicative Mapping of Tasmanian Coastal Vulnerability to Climate Change and Sea-Level Rise: Explanatory Report 2nd Ed. 2006.

Information Paper: Sea-Level Change Around Tasmania [http://www.dpiw.tas.gov.au/inter.nsf/Attachments/PMAS-63H5VG/\\$FILE/Sea_Level_in_Tas-May2004.pdf](http://www.dpiw.tas.gov.au/inter.nsf/Attachments/PMAS-63H5VG/$FILE/Sea_Level_in_Tas-May2004.pdf)

Tasmanian Shoreline Monitoring and Archiving project (TASMARC) <http://staff.acecrc.org.au/~johunter/tasmarc.pdf>

Getting Information About Climate Change <http://staff.acecrc.org.au/~johunter/info.pdf>

Kevin Walsh 2004, **Climate change and coastal response**, A theme report from the Coast to Coast 2002 National Conference, 2002
<http://www.coastal.crc.org.au/pdf/coast2coast2002papers/climate.pdf>

The **Intergovernmental Panel on Climate Change** summary for policy <http://www.ipcc.ch/pub/spm22-01.pdf>

The executive summary of the **Stern Report** looks at the economic impacts of climate change:
http://www.hm-treasury.gov.uk/independent_reviews/stern_review_economics_climate_change/stern_review_report.cfm

The **Climate Action Network Australia** provides accessible information on Australian impacts <http://www.cana.net.au/>

Climate Change Strategies produced by other states Victoria, South Australia
<http://www.greenhouse.vic.gov.au/greenhouse/images/VicGreenhouse-ActionPlan.pdf>
http://www.climatechange.sa.gov.au/PDFs/draft_strategy.pdf

Sustainable Living Tasmania <http://www.tasmanianenvironmentcentre.org.au/>

The **Department of Primary Industries and Water** <http://www.dpiw.tas.gov.au/climatechange>

RELATED PROJECTS OCCURING IN THE SOUTHERN TASMANIAN NRM REGION

Climate Change and Coastal Risk Management

The two year project is funded by Tasmanian Risk Mitigation Programme and coordinated by DPIW. The project has three phases:

1. Improved probabilities for extreme sea-level events with sea-level rise. This involves looking at historically recorded extreme sea-levels and future extreme sea-level event probability to refine and understand the hazard.
2. Identification of vulnerable built and natural assets, involving a desktop identification of vulnerable assets (built and natural) in the hazard zones.
3. Broad principles for management (i.e. best practice), and planning, addressing such questions as 'What is best practice risk management in the coastal zone with climate change? (eg. protect, retreat, do nothing)

The project is focused on planning and management authorities at a local and State level, and is linked to the Clarence City Council project (see below).

Scientific Assessment and Response to Climate Change Impacts on Clarence Foreshores

Coordinated by the Clarence city Council with funding through the Australian Greenhouse Office, the project will determine through integrated assessment, how climate change in the form of rising sea-level, storm surge flooding, increased coastal erosion etc., will impact environmentally, socially and economically on Clarence coastal region communities.

Local Government Climate Change Reference Group

The Local Government Association of Tasmania has responded to Council concerns about climate change with the establishment of a Local Government Climate Change Reference Group, which had its first meeting in early December. The Reference Group comprises Council staff, representing a range of Council functions that are likely to impact upon, or be impacted by climate change in the future. The Reference Group will seek to find points of common interest across Councils, identify opportunities to build on existing activities, and explore areas where further research or demonstration projects may be established.

Coastal Values of Southern and Northern Tasmania Projects

Coordinated by the DTAE Coastal And Marine Branch, with funding from the Natural Heritage Trust, the project involved two main components. The first component took place during 05/06 and involved:

- Collecting coastal vegetation and fauna habitat data for the coastal strip (between mean high water and 100 metres inland) of the Southern NRM Region, work undertaken by environmental consultants North Barker & Associates.
- Collecting coastal geomorphology data for the coastal strip (between mean high water and 100 metres inland), work undertaken by consultants Chris Sharples and Frances Mowling.

Part two of the project involved applying decision support tools to the data collected, and provision of training for local government staff to use data when making decisions about coastal development proposals, etc. The project was completed December 2006. At present, the Steering Committee is working out data management arrangements. Training for council staff and other land managers was held in December for both the Northern and Southern regions. For the general public analysed data will be made available through new layers on the Land Information System <http://www.thelist.tas.gov.au/> (LIST) approximately February 2007.

Assessment and Mapping of Foreshore Condition, Values and Pressures

In June 2006 NRM South with funding from the Natural Heritage Trust, commissioned Aquenal, a small team of environmental analysts and biologists, to establish baseline information on the condition of foreshores in southern Tasmania. The project will identify key pressures as the basis for measuring impacts on the coastal ecosystem. Information will be compiled through literature and database reviews, web searches and field studies and will be developed in consultation with a coastal reference group and relevant stakeholders. Baseline information will be mapped in a format compatible with the Land Information System Tasmania (LIST) and will bridge a gap between existing mapping of coastal and marine habitats. The study will form a basis for strategic management of foreshores in the region, and provide benchmarks and reference sites for assessing impact

To date the project has completed a full literature review of all relevant reports, information and data layers. Community groups and associations have been contacted to provide information on foreshore values and condition, and all information is currently being compiled to determine condition ratings, values and mapping layers. The project is scheduled to finish in April 2008.

