

# Marine and Antarctic Science

## Further Reading

### Module 3

#### Topic 2

Foster, G.L and Rohling, E J, 2013, Relationship between sea level and climate forcing by CO<sub>2</sub> on geological timescales, *Proc. Natl. Acad. Sci. U. S. A.* 110, 1209–1214.

#### [2AGU Chapman Conference -- Climate Science: Richard Alley](#)

Always an engaging speaker, Richard Alley speaks on climate change and communication of climate change, from a paleoclimate and glaciology perspective

HOW CLIMATE WORKS (Part 6) - Michael Bender on Paleoclimate

<http://blog.press.princeton.edu/2012/12/27/how-climate-works-part-6-michael-bender-on-paleoclimate/>

This article discusses climate records and regulation of earth's climate with an emphasis on longer timescales.

#### Topic 3

##### 1. International report on climate change

- Intergovernmental Panel on Climate Change (IPCC, [www.ipcc.ch](http://www.ipcc.ch)) Fifth Assessment Report (AR5), Working Group I (WG1) Summary for Policymakers:
  - [http://www.climatechange2013.org/images/uploads/WGIAR5-SPM\\_Approved27Sep2013.pdf](http://www.climatechange2013.org/images/uploads/WGIAR5-SPM_Approved27Sep2013.pdf)

##### 2. Surface warming of southwest Pacific and Tasman Sea:

- Tasman Sea a “hotspot” for ocean warming, Australian Geographic:
  - <http://www.australiangeographic.com.au/journal/tasman-sea-a-hotspot-for-ocean-warming-climate-change.htm>
- Warming in the Tasman Sea a global warming “hotspot”, phys.org:
  - <http://phys.org/news/2012-01-tasman-sea-global-hot.html>
- Tasman warming three times global average, Australian Popular Science:
  - <http://www.popsci.com.au/science/future-of-the-environment/tasman-sea-warming-two-to-three-times-global-average-warming-rest-of-planet>

- Species range extensions the Range Extension Database and Mapping project: [www.redmap.org.au](http://www.redmap.org.au)

#### Topic 4

This scientific paper is open access from the PLoS ONE website

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0063091>

Johnson, C.R. et al 2011, 'Climate change cascades: shifts in oceanography, species' ranges and marine community dynamics in eastern Tasmania', *Journal of Experimental Marine Biology and Ecology* 400: 17-32.

IPCC 5th assessment report

<http://www.ipcc.ch/report/ar5/wg1/#.UnH28-L0ItM>

Answers to Ian Plimer's 'climate questions' help to debunk many of the myths about climate change:

[http://www.climatechange.gov.au/sites/climatechange/files/documents/03\\_2013/prof-plimer-answers.pdf](http://www.climatechange.gov.au/sites/climatechange/files/documents/03_2013/prof-plimer-answers.pdf)

#### Topic 5

Interactive map of eutrophication and hypoxia

<http://www.wri.org/our-work/project/eutrophication-and-hypoxia/interactive-map-eutrophication-hypoxia>

Blog post on declining ocean oxygen

[http://e360.yale.edu/feature/a\\_looming\\_oxygen\\_crisis\\_and\\_its\\_impact\\_on\\_worlds\\_oceans/2301/](http://e360.yale.edu/feature/a_looming_oxygen_crisis_and_its_impact_on_worlds_oceans/2301/)

#### Topic 6

[Detailed diagram of the consequences of ocean acidification](#)

#### Topic 8

Johnson, CR et al. 2011, 'Climate change cascades: shifts in oceanography, species' ranges and marine community dynamics in eastern Tasmania,' *Journal of Experimental Marine Biology and Ecology* 400: 17-32.

## Topic 9

[Detailed diagram of the social-ecological system](#)

## Topic 10

Reef Life Survey (RLS) aims to improve biodiversity conservation and the sustainable management of marine resources by coordinating surveys of rocky and coral reefs using scientific methods, with the ultimate goal to improve coastal stewardship. [www.reeflifesurvey.com](http://www.reeflifesurvey.com)

Redmap (Range Extension Database & Mapping project) invites the Australian community to spot, log and map marine species that are uncommon in Australia, or along particular parts of Australian coast. [www.redmap.org.au](http://www.redmap.org.au)