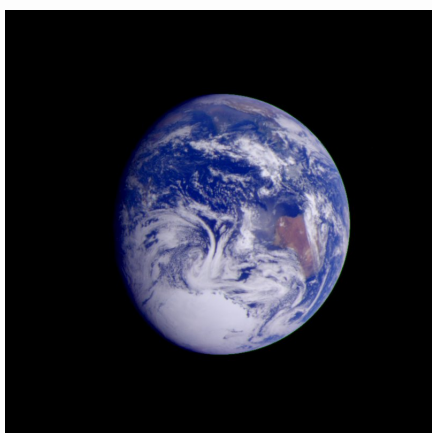


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APRIL/MAY  
 Newsletter for the Centre of Excellence for Climate System Science (COECSS)

# COECSS Report



**Welcome to the first newsletter for the Centre of Excellence for Climate System Science. These will now be a regular feature of the Centre, so if you have something large or small that you would like to share with your colleagues please send them to Alvin and it can be added to the newsletter. Suggestions, ideas, comments and events dates are most welcome.**

## NEWS

### CMS Updates

The Climate Laboratory is in full swing. We now have a completely managed environment with new components being added regularly. WRF is now supported, the ACCESS suite of modes has been installed, Wikis have been established, data from the European Centre for Medium Range Forecasting (ECWMF) and th CMIP5 data from the Earth Systems Grid - Centre for Enabling Technologies is being uploaded and Python training courses are up and running. [Read more at Mike's corner.](#)

### Meeting puts Centre researchers in COMA

In early February, Centre of Excellence researchers working in oceans along with Marshall from our CMS team took part in the first

## CALENDAR

### APRIL

**April 13, 11am-1pm**  
**Symposium – The psychology of climate change: From understanding to action.**

Part of the [39<sup>th</sup> Annual Australasian Experimental Psychology Conference](#)

#### Speakers:

Ben R Newell (UNSW) *Adapting cognition to a changing climate*  
 David Sewell (The University of Melbourne) *Learning how human activities affect climate change*  
 Stephan Lewandowsky (UWA) *An anatomy of climate science rejection*  
 Michael Smithson (ANU) *Conflict, ambiguity and risk communication*  
 Matt England (UNSW) *A Climate Scientists Perspective*  
**Location:**Leighton Hall, Scientia Building, UNSW

**April 16, 2pm-3pm,**  
**Seminar - Origin of the interannual variability of the tropical cyclone activity in the South West Pacific.**

Speaker Nicolas Jourdain (CCRC)  
**Location:**Level 4, Mathews Building, UNSW

**April 18, 2pm-3pm**  
**Seminar - Surface influences on planetary boundary layer development in southwest Western Australia.**  
 Speaker: Jatin Kala (CCRC)

meeting and workshop for the newly formed Consortium for Ocean Modelling in Australia (COMA). The meeting brought together the key players in large-scale ocean modelling development in Australia. It included researchers working on the ocean and sea-ice components of [ACCESS](#), ocean-forecasting reanalysis ([Bluelink](#)) and biogeochemical modelling. [Read more](#).

### Centre plays important role at AMOS conference

Researchers and students from the Centre of Excellence played a large part in the recent, very successful AMOS conference held at UNSW.

Adele Morrison won a student prize for best oral presentation during the conference for her talk, [Interplay between the zonal momentum balance and overturning in the Southern Ocean](#). (Please note: Firefox seems to have recently stopped opening pdf files after an update, so use other web browsers to see this).

Isabella Rosso also received an honorary mention for her oral presentation, *The vertical transport of tracers in the ocean: a pump driven by submesoscale structures*.

At the same time a host of COE chief investigators and researchers played major roles as speakers or conveners. This year's conference was the largest standalone conference that AMOS has ever held with around 330 registrations according to a [recent column](#) by incoming AMOS president Blair Trewin.

### Adele Morrison invited to Nobel Laureate meeting

Adele has been selected as one of six Australians to attend the [62<sup>nd</sup> Lindau Nobel Laureate meeting](#) in July, which will this year be dedicated to physics. The Lindau meetings have been running every year since 1951, bringing together 550 young researchers and 25 Nobel Laureates to exchange ideas, discuss projects and build international networks.

Australia's most recent Nobel Laureate, [Prof Brian Schmidt](#), will be at the meeting.

The short list of attendees was selected by a panel through the Australian Academy of Science and approved by Lindau Nobel Laureate organisation. A spokeswoman for the Academy said the

**Location:** Level 4, Mathews Building, UNSW

**April 22-April 27**  
**Conference - [European Geosciences Union \(EGU\) general assembly](#)**  
**Location:** Vienna, Austria

**April 23-April 27**  
**Conference - [10th International Conference on Southern Hemisphere Meteorology and Oceanography](#)**  
 Theme: Changing Southern Climes  
**Location:** Jean-Marie Tjibaou Cultural Center; New Caledonia; Nouméa

## MAY

**May 9, 2pm-5pm**  
**Seminar – Flood modelling**  
 Speaker: Geographic Information Consultant at Environmental Resources Management Australia Pty Ltd, Andrew Cook  
**Location:** Level 4, Mathews Building, UNSW

**May 15, 5.30pm-7pm**  
**Topic to be announced**  
 Speaker: Franziska Schwarkopf (Claus Bonings lab)  
**Location:** Level 4, Mathews Building, UNSW

## JULY

**July 1-5**  
**Conference – [Marine extremes and everything in between](#)**  
**Keynote Speakers:**  
 Dr Susan Wijffels (Opening Address)  
 Dr David Griffin (Extreme Oceanic Events)  
 Prof Mike Coffin (Deep Sea)  
 Dr Dennis Gordon (Biodiversity – in this decade of Biodiversity)  
 Dr Scott Nodder (Southern Ocean/Ocean Acidification)  
**Location:** Wrest Point Hotel, 410 Sandy Bay Rd, Hobart, Tasmania

**July 2, 5pm-6pm**  
**Seminar - Progress in**

panel could afford to be very discerning about who was put forward on the list due to the high quality of applications.

### Andrew King off to NCCR Climate Summer School

Andrew King's PhD project in extremes rainfall will get a boost when he attends the [NCCR Climate Summer School](#) in Switzerland during August this year. Seventy participants were selected from 300 applications.

This year's theme will focus on "the water cycle in a changing climate". Keynote speakers at this year's school include [Myles R Allen](#), [Dennis L Hartmann](#), [Isaac M Held](#) and [Valerie Masson-Delmotte](#). This will be Andrew's first summer school.

### Prof Nathan Bindoff's sabbatical

Nathan Bindoff returned in February from a nine month sabbatical in the UK.

Nathan spent six months of his time working with Peter Stott at the UK Met Office (Hadley Centre) in Exeter and three months at University of East Anglia working with Corrine Le Quere.

The main purpose of the sabbatical was to write the IPCC Chapter 10, which is on the detection and attribution of climate change in the earth system, from global to regional scales. This chapter is a key chapter that bridges both the observations and the models of the earth.

In his spare time he managed to start some papers on oxygen changes in the global oceans and more importantly start a new project of the detection and attribution of climate change in the changes of oxygen with the global oceans.

The sabbatical was a great pleasure for the family and renewing scientific contacts within the UK and Europe.

### Administrative staff symposium

The recent Centres of Excellence Mini Symposium and Planning Day organised by COECSS administration team's Stephen Gray and Simone Purdon was a huge success.

The planning day brought together the administration teams from the

### detecting anthropogenic influence on temperature and precipitation extremes.

Speaker: Director, Pacific Climate Impacts Consortium, University of Victoria, Francis Zwiers

**Location:** Level 4, Matthews Building, UNSW

### July 9-13

**COECSS Winter School:** A high level educational program for honours and graduate students interested in climate science.

**Location:** School of Earth Sciences, The University of Melbourne

## SEPTEMBER

### September 24-28

#### Workshop - COECSS Annual Workshop

Chief investigators workshop

Location: Hobart

three Centres of Excellence based at UNSW - COECSS, [CEPAR](#) and [CQC2T](#).

The Centre Director of CEPAR, Prof John Piggott was a special guest on the day, where he talked about the importance of the relationship between administration professional staff and researchers.

The success of the day was reflected in the practical solutions that were developed and shared to help improve the running of the Centres.

Importantly the connections established on the day are continuing with regular meetings between staff from each of the Centres and the likelihood of future collaborations across the Centres.

It is expected that the symposium will become an annual event.

## CONFERENCE REPORTS

### WCRP's CMIP5 Workshop

A workshop was convened by the World Climate Research Programme (WCRP) Working Group on Coupled Models (WGCM) to provide scientists an opportunity to present new results emerging from analyses of the multi-model data that are part of the Coupled Model Intercomparison Project Phase 5 (CMIP5). [Dr Andy Hogg reports from the workshop.](#)

### 2012 Ocean Sciences Meeting

Every couple of years over four thousand oceanographers and marine researchers from around the globe come together at the ASLO/AGU Ocean Sciences Meeting. The 2012 meeting, held in Salt Lake City, was divided into over 150 sessions on physical, biogeochemical, ecosystem, geophysical & geological, education & outreach, and policy research; with additional plenary lectures, student workshops and town hall meetings. [Adele Morrison reports.](#)

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