



NCCARF

National
Climate Change Adaptation
Research Facility

NCCARF Newsletter

[Director's message](#)

[Professor Jean Palutikof, NCCARF Director](#)

COP-16: Three questions

It doesn't seem very long since I wrote in the Newsletter about the disappointing lack of progress at the UNFCCC 15th Conference of the Parties (COP-15) in Copenhagen. Now I find myself putting pen to paper about COP-16, which has just completed its business in Cancún. The tragedy is that the message is just the same – little of substance was achieved. Instead, we are left with the message that the process is still on track, and that the Parties (or Governments) will be meeting in a year's time in Durban for COP-17. To quote one blog 'It's incremental progress, but progress nonetheless' (Robert Stavins, Harvard University).



Is 'incremental' progress sufficient, given the projected rate of climate change?

No. The modest progress made at COP-16 is set out in two documents together called the Cancún Agreements. These reaffirm the need to hold temperature increase below 2°C. At the same time, they fail to deliver emissions reductions which would meet this target. Only one delegation refused to sign up to the Agreements. This was the delegation from Bolivia – their leader said: "We're talking about a [combined] reduction in emissions of 13-16%, and what this means is an increase of more than 4°C...Responsibly, we cannot go along with this - this would mean we went along with a situation that my president has termed 'ecocide and genocide'". And this statement is correct. The Cancún Agreements formalise the pledges made under the Copenhagen Accord but, even if delivered in full, would only reduce emissions by around 15%, when we know that what needs to be achieved to maintain the temperature increase below 2°C is a global 50% reduction by 2050, much more for developed countries, much less for developing countries.

Can the UNFCCC process deliver what is needed?

I fear the answer to the second question is also no. Not only is the UNFCCC process failing to deliver the actions needed to deal with climate change, it is lulling us into a false sense of security that everything is OK because the governments are in charge and dealing with the problem, when in fact they are failing to do so. A gulf has opened between what the scientists know must be done to avoid dangerous climate change, and what the governments are able to deliver through the UNFCCC process. The governments would have us believe that this gulf doesn't exist, and that they will, in time, deliver what is needed. But we don't have time anymore.

This year delivered some record extremes – remember the Russian heatwaves and the Indus floods? It is as if we've come to expect these events, and maybe that's the way we're headed – towards a gradual acceptance of the inevitability of climate change and its impacts, and an acceptance of the need to deal with those impacts on a case by case basis. Which is fine for those people and species that can adapt to the new order, but not so good for those that cannot.

Is it time to call time on the UNFCCC?

I'm not going to try to answer this question, nor is it appropriate at this time. Certainly, we need to face up to the fact that we're singularly failing to deal with climate change. There is an urgent need for debate on this third question - if we can be realistic about where we're at, maybe we can start to see a way forward that will deliver what is needed.

2011 Climate Adaptation Conference

Wednesday 6 April, 2011

Cairns Convention Centre, Cairns, Australia

NCCARF will host a one-day climate change adaptation conference in Cairns, Queensland on Wednesday 6 April, 2011. This conference will be held in conjunction with Greenhouse 2011, which runs from the 4-8 April, 2011 at the Cairns Convention Centre.

Further information about the program, for this Conference will be available on the NCCARF website in January 2011.

If you would like to register your interest in this event and sign up to receive further information. Registration for this event is free, but numbers are limited please visit www.nccarf.edu.au/conference-2011

For more information on the Greenhouse 2011 Conference visit available online at www.greenhouse2011.com



New local government resource launched

NCCARF has launched an online climate change adaptation information portal which aims to support local government information needs for climate change adaptation.

The portal includes information resources and opportunities to share knowledge, experiences and ideas, to participate in a local adaptation forum and to connect with leaders in policy and research.

The portal has been developed in consultation with representatives from Australian local government, and we are continuing to seek further comments and input to allow us to improve and add to this portal on an ongoing basis.

If you have any suggestions or comments, please contact Donovan Burton at d.burton@griffith.edu.au.

Visit the website at

www.localgov.nccarf.edu.au/

Synthesis and Integrative Research presented nationwide

Results from Phase I of the NCCARF Synthesis and Integrative Research Program were presented to researchers, policy makers and interested community members through a series of NCCARF information forums held in Brisbane, Darwin, Melbourne and Canberra in November and December. Other capital cities to follow early in 2011.

Phase I projects have now been completed, and two-page summaries of Key Findings and final reports from each project are available at www.nccarf.edu.au.

NCCARF Phase I Synthesis and Integrative Research Projects

- An assessment of the vulnerability of Australian forests to the impacts of climate change;
- An assessment of the nature and utility of adaptive capacity research.
- A series of Historical Case Studies of Extreme Events, which examined community, institutional and governance responses to seven extreme events and conditions, including:
 - The 2008 floods in Charleville and Mackay, Queensland;
 - Storm tides along east coast Australia;
 - Cyclone Tracy, Darwin, 1974;
 - Drought and water security in small inland towns looking at:
 - Agricultural communities - Donald and Mildura, Victoria;
 - Mining communities - Broken Hill, NSW and Kalgoorlie, Western Australia;
 - Heavwaves: the southern Australia experience of 2009;
 - East Coast Lows and the 2007 Newcastle-Central Coast *Pasha Bulker* storm.

Phase II projects are currently underway - visit the NCCARF website for updates.



Update: National Climate Change Adaptation Research Plans

Completed and released: Human Health; Emergency Management, Settlements & Infrastructure, Marine Biodiversity and Resources, Terrestrial Biodiversity.

Consultation completed: Social, Economic and Institutional Dimensions, Primary Industries, Freshwater Biodiversity.

In development: Indigenous Communities. Completed and released plans are available at www.nccarf.edu.au

Terrestrial Biodiversity research grants now open

Minister for Climate Change and Energy Efficiency Greg Combet has released the NCCARF National Climate Change Adaptation Research Plan for Terrestrial Biodiversity, and announced \$3.3 million in funding for research to address the priority research areas identified for immediate investment. Priority questions include:

1. How will climate change affect existing conservation goals and how should changed conservation goals be promoted and achieved?
2. What designs of landscapes in regions having differing land uses confer maximum resilience for biodiversity in the face of climate change? How do these landscape designs integrate conservation plans and actions, incorporating protected area management, off-reserve conservation measures and other land-uses, to maximise biodiversity conservation benefits/outcomes under a changing climate? How can integration be done more effectively?
3. How will climate change interact with other key stressors such as fire, invasive species, salinity, disease, changes to water availability, grazing and clearing? What are the integrated implications for ecosystem structure and functioning and what management responses will be required?
4. What are the costs and benefits of different climate change adaptation measures in vulnerable ecological communities and ecosystems?



5. Which species should be the focus of investment in climate change adaptation?

How to apply

All applicants should first download and read the National Climate Change Adaptation Research Plan for Terrestrial Biodiversity, and the accompanying application pack, which includes the application guidelines and form. These are available online at www.nccarf.edu.au

For more information, contact Ida Fellegara at nccarf-researchteam@griffith.edu.au or 07 5552 7235

All applications must be received by NCCARF by **21 January 2011**.

Marine Biodiversity grants awarded

NCCARF, the Fisheries Research and Development Corporation and the Department of Climate Change and Energy Efficiency have announced the first projects approved for funding to address the priorities in the National Climate Change Adaptation Research Plan - Marine Biodiversity. Other successful projects will be announced in coming weeks. Projects approved to date include:

- *Adaptive management of temperate reefs* – Neville Barrett, UTas;
- *Adapting to the effects of climate change on Australia's Deep Marine Reserves* – Ron Thresher, CSIRO;
- *Vulnerability of an iconic Australian finfish (Barramundi) and related industries to altered climate across tropical Australia* – Dean Jerry, JCU;
- *Identification of climate-driven species shifts and adaptation options for recreational fishers* – Daniel Gledhill, CSIRO;
- *Changing currents in marine biodiversity governance and management responding to climate change* – Michael Lockwood, UTas;
- *Human adaptation options to increase resilience of conservation-dependent seabirds and marine mammals impacted by climate change* – Alistair Hobday, CSIRO;
- *Ensuring that the Australian oyster industry adapts to a changing climate: a natural resource and industry spatial information portal for knowledge action and informed adaptation frameworks* – Andrew Davis, UOW;
- *Management implications of climate change effects on fisheries in Western Australia*, Nick Caputi, Western Australian Fisheries and Marine Research Laboratories;

- *Beach and surf tourism and recreation in Australia: vulnerability and adaptation* – Mike Raybould, Bond;
- *A climate change adaptation blueprint for coastal regional communities* – Stuart Frusher, UTas; Nadine Marshall, CSIRO;
- *Effects of climate change on reproduction, larval development and population growth of coral trout* – Morgan Pratchett, JCU
- *Pre-adapting a Tasmanian coastal ecosystem to ongoing climate change through reintroduction of a locally extinct species* – Nicholas Bax, UTas/CSIRO
- *Management implications of climate change impacts on fisheries resources of tropical Australia* - David Welch, JCU.

For more information contact Colin Creighton at FRDC colin.creighton@frdc.com.au

Human Health research grants

The NHMRC has announced recipients of the second round of Health Challenges of Climate Change Special initiative grants.

- *Projection of the impact of climate change on the transmission of Ross River virus disease*. Shilu Tong - QUT;
- *Dengue transmission under climate change in Northern Australia: linking ecological and population based models to develop adaptive strategies*, David Harley, ANU;
- *Health impacts of climate change on Indigenous Australians: identifying climate thresholds to enable the development of informed adaptation strategies*, Donna Green, UNSW.

Applications are now open for the next round of grants under this special initiative. Applications close 8 March 2011 for the next round of grants. Apply at www.nhmrc.gov.au



Social, Economic and Institutional Dimensions

Second Network workshop

The second SEI-network workshop was held at UNSW from 16-18 November, hosted by Associate Professor John Merson and Sarah Terkes. The workshop addressed the theme of climate adaptation governance, with over 50 presentations exploring the issue through a range of case studies from Australia and the Asia Pacific region.

A closing field trip, attended by PhD students from UNSW and the Adaptation College Fellows, visited several sites around Botany Bay to consider climate change impacts and adaptation.

Workshop participants explore Botany Bay



Adaptation College

The second Adaptation College meeting was held on 19 November, with three new Fellows welcomed: Kathryn Bowen, Siri Veland and Carolina Roman, taking the final number of Fellows to 19.

The adaptation governance workshop had raised plenty of questions and challenges for the College. The Fellows immediately put into practice one of the suggestions from the workshop, which was to provide facilitated spaces for more deliberative engagement with climate adaptation. Other suggestions to be carried forward next year include the development of a series of College briefing notes (similar to the UK POST-note) documenting relevant theory and case studies in adaptation from the Fellows' expertise and experiences. These will be short, jargon-free documents for wide circulation by the Fellows to adaptation policy and practice communities.

The next Adaptation College will be held in Canberra, November 2011, with a number of Fellows meeting at the national NCCARF conference in April in Cairns before then.

For more Network news visit www.nccarf.edu.au/social-economic-and-institutional-dimensions/



Human Health

'Action Plan' in development

Policy and research have been brought together to develop a National Climate Change Adaptation Action Plan for Human Health. The Environmental Health Committee (enHealth) is developing this Action Plan for at the request of the Australian Health Ministers' Advisory Council. The Adaptation Research Network for Human Health has been providing ongoing advice to enHealth and the Department of Health and Ageing as part of this process. Members of the Human Health Network recently participated and provided advice on draft areas of the Adaptation Action Plan

at a Department run enHealth workshop. The workshop brought together researchers and policy makers, at a state and federal level, to ensure that the Adaptation Action Plan is fully informed by research in this area. Researchers put forward a number of likely areas where climate change is expected to impact on human health, and discussed with policy makers what this would mean for the Australian health system. Areas of Australia's health system that are most vulnerable to the effects of climate change were identified and recommendations developed for adaptation options.

Climate and Health Alliance

The Climate and Health Alliance (CAHA) was established in August 2010. CAHA is an alliance of health care stakeholders, including health care professionals from a range of disciplines, health care service providers, institutions, academics, researchers, and health care consumers across Australia who wish to see the risks to human health from climate change addressed through urgent policy action. More information from: <http://climateandhealthalliance.blogspot.com/p/blog-page.html>

Health Promotion Journal of Australia

The Health Promotion Journal of Australia is currently developing a feature section on climate change and health for the August 2011 issue. More information from: www.healthpromotion.org.au/journal

More Network news: www.nccarf.edu.au/humanhealth



Terrestrial Biodiversity

National Roadshows

Over the last four months the Network has undertaken Roadshows with the main aim of increasing stakeholder involvement in the network and helping to identify impacts, concerns and adaptation options for terrestrial biodiversity and climate change specific to each region/state and ecosystem.

To date over 200 people have attended events in Queensland, Victoria, Western Australia and ACT. These events have been great networking and workshopping days. All of the presentations and information from these are available on our website at: <http://hosting2.arcs.org.au/terrestrialbiodiversity/index.php/roadshows.html>. The next roadshow will be held in South Australia on the 8 February 2011 and dates will soon be confirmed for New South Wales, Tasmania and Northern Territory.

Managed relocation workshop

A workshop on Managed Relocation was held in York, Western Australia from 15-19 November and was convened by Professor Stephen Garnett and Dr Nicola Mitchell. Twenty national and international invited participants spent this time discussing and workshopping major issues concerning managed relocation; specifically, which species should be moved, when, where and how? The outcomes from this workshop will be presented as an information sheet and papers in peer reviewed articles. The primary conclusions from this workshop will be presented in a talk at the Ecological Society of Australia conference this month.

The network will once again offer Honours/Masters project funding and PhD collaborative travel funding in April 2011 for projects which relate to climate change adaptation for terrestrial biodiversity. More Network news: <http://hosting2.arcs.org.au/terrestrialbiodiversity>



Primary Industries (PIARN)

Network sponsors agronomy event

Leveraging off existing events in primary industries R&D is a core element of PIARN's ongoing efforts to engage researchers and ensure the relevance of PIARN to the research sector. In November PIARN representatives attended the Australian Agronomy Conference in New Zealand as a sponsor. The theme was 'Food security and sustainable agriculture', so it was a valuable opportunity to increase awareness of both PIARN and NCCARF and gather feedback on how PIARN could be of use as a network for people in this R&D space.

Inaugural CCRSPI Conference

PIARN is involved in the upcoming CCRSPI Conference, the inaugural conference focused on primary industries and climate change in Melbourne, 15-17 February 2011.

The conference will host sessions on a number of topics to present research activity within the areas of greenhouse gas accounting, soils, animals, plants, socio, landscapes, water, communication, impact modelling, farming systems and transformational adaptation. PIARN Convenor Professor Snow Barlow and Co-convenor Dr Mark Howden will lead the 'Transformational Adaptation' session, while theme leader Dr Peter Hayman will chair the 'Farming Systems' session. Early bird registrations for the CCRSPI Conference are now open. To take advantage of the significant price discount, register at www.theccrspiconference.com.au by 20 December 2010. Discounted registration is available for students and farmers.

Australia-China research exchange

PIARN was pleased to nominate – through Snow Barlow – eight members for consideration for the Australia-China Young Scientists Exchange Scheme. As a Fellow of the Australian Academy of Technological Sciences and Engineering, Snow was asked to nominate outstanding mid-career researchers in the topic area of Global Climates Change – impacts of climate change on water and the environment. Successful applicants have the opportunity to investigate research collaborations and build networks with climate change institutes and researchers in China.

Postgraduate workshop and travel scholarships

PIARN will host a professional development workshop for postgraduate students on 14 February at the Melbourne Cricket Ground, prior to the CCRSPI Conference. The workshop will enable networking between postgraduates and senior researchers, including the PIARN Management Group and CCRSPI Conference keynote speakers, and will incorporate professional development sessions.

The workshop is free and open to all postgraduate and honours students undertaking research in climate change adaptation for primary industries. PIARN will also sponsor 15 students to attend the CCRSPI Conference and postgraduate workshop. Successful interstate applicants receive complementary conference registration and \$1000 travel bursary, while successful Victorian applicants receive complementary conference registration. Applications for the travel scholarships close 14 January. Registrations for the postgraduate workshop close 27 January. To apply, register or find out more visit www.piarn.org.au/news. More Network news www.piarn.org.au



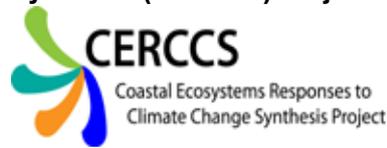
Water Resources and Freshwater Biodiversity

National Workshop on Water Governance Research held

The network held a national workshop in Canberra on 15-16 November to bring together researchers and policy practitioners to explore the needs and priorities

of water governance research in Australia given an uncertain and climatically variable future. The workshop was well attended with participants representing every state and territory and a range of research, government and private organisations. The first day focused on discussions about the boundaries and scope of water governance with presentations by researchers and policy practitioners from different disciplines including Professor Ray Ison (Monash University), Mr Russel James (Department of Sustainability, Environment, Water, Population and Communities), Professor Lin Crase (LaTrobe University), Mr Jamie Pittock (ANU), Ms Kerry Olson (National Water Commission), Professor Barry Hart (Murray-Darling Basin Authority), Mr Andrew Moss (ANU) and Associate Professor Poh-Ling Tan (Griffith University). On the second day, the workshop addressed current research priorities and capability with a range of state-based presentations. For further information or to join the National Water Governance Initiative, visit <http://www.nccarf.edu.au/water/node/5>

Coastal Ecosystems Responses to Climate Change Synthesis (CERCCS) Project - stakeholder survey



An online survey has been established for this NCCARF Synthesis & Integrative project to gain a better understanding of the values and

responses of stakeholders to the threat of climate change in coastal environments. The information gained from this survey will be considered in the development of adaptation strategies and frameworks to aid stakeholders in their decision making processes as well as ensuring that the project takes into account the best available sources of knowledge. In particular, the project team is interested in perceived risks and vulnerability in coastal ecosystems and current and proposed adaptation strategies to address these concerns, especially at a local level. The survey takes 5 minutes to complete and can be accessed at <http://www.surveymonkey.com/s/FF2S8P7>. For more Network news visit www.nccarf.edu.au/water.



Emergency Management

Convenor John Handmer presented in Canberra in November on the findings of the 2008 Victorian Bushfire Royal Commission and its relevance for emergency management and climate change. The seminar is now available on the NCCARF website at <http://www.nccarf.edu.au/nccarf-seminars>. For more Network news visit www.nccarf.edu.au/emergency-management/



Marine Biodiversity and Resources

National strategy meetings held

Network organisers recently facilitated a series of focused strategy meetings with high-level marine sector stakeholders across all six states and Northern Territory. The key objectives were: to identify the research/adaptation needs of marine stakeholders (government, NGOs, industry and conservation groups) in the face of climate change; to provide relevant information to existing and future national research and action plans; to establish and consolidate Network links with key marine biodiversity, resource and tourism stakeholder groups; to inform marine stakeholders about NCCARF and the Network in helping to meet

government/industry/NGO management needs; and to inform the next Marine Climate Change Impacts and Adaptation Report Card proposed for 2011.

The individual State and Territory meetings were informed by responses to a questionnaire completed by the invited participants or their representatives ahead of the meeting.

The composition of the invited participants followed a careful and objective selection process and included peak body, government and NGO leaders in conservation, commercial fishing, recreational fishing, aquaculture and tourism, i.e., the sectors also identified in the NCCARF National Climate Change Adaptation Research Plan for Marine Biodiversity and Resources. Key representatives were also invited on behalf of natural resource management and the State/Territory Government climate change office.

Following presentations about climate change particular to the marine environment for each State/Territory by the Network or the relevant Government climate change office, representatives contributed highly productive cross-sectoral discussions – while also providing important rationale to the priority issues and concerns that relate directly, or indirectly, to marine climate change impacts and adaptation for the various State/Territory jurisdictions. The contribution to each of the meetings was excellent, and we are grateful to everyone concerned. A briefing report will be written to capture the identified State/Territory priorities. More Network news: www.nccarf.edu.au/marine



Settlements and Infrastructure Early Career Researcher forum a success

Thirty-one energetic young researchers from around Australia gathered for the 4th ACCARNSI Early Career Researcher forum and workshop at the University of South Australia from 24-26 November.

Participant Southern Cross University PhD Candidate, Nadine White said; “The Early Career Researchers Workshop and Forum was a fantastic opportunity to meet other researchers in the field of climate change adaptation related to settlements and infrastructure. The diversity of projects meant the program of presentations was interesting and eclectic and I particularly gained a lot from the different methodological approaches that people are applying.”

“There were a range of pragmatic, empirical, conceptual and theoretical studies which weaved together to form a wonderful overview of adaptation research. It was great to have a mix of post-grads, post-docs and in particular people from industry and government to keep us focussed on the needs of end-users. Established researchers from the ACCARNSI network also presented on their particular field of interest.”

“The program incorporated a break from the conference room and we headed to McLaren Vale to taste superb local wines. The trip back took us along the coast and our guide Murray Townsend pointed out issues that had implications for climate change adaptation in the coastal settlements. In all, the forum was a fantastic learning and sharing experience and I truly appreciate the opportunity to be a part of it.”

The next ACCARNSI ECR will be held in Sydney in April/May. Check our website in the New Year for further details.

2011 ACCARNSI Honours & Masters research grants

ACCARNSI will offer up to 10 Honours/Masters research grants valued at up to \$7000 each. Applications open in December 2010 and will be accepted in a wide range of disciplines. Research must be relevant to the area of climate change adaptation for Settlements and Infrastructure.

Eligibility:

- This round is open to full-time domestic students of Australian Universities in any discipline.
- Research must directly inform management or assist in natural adaptation of settlements and infrastructure to climate change.
- Applicants must commence their Honours/Masters research program in 2011 and show proof of acceptance to an Australian honours/masters program.
- The student must be under the supervision of a Settlements and Infrastructure Network member.

Further details are available on the ACCARNSI website.

The team at ACCARNSI wishes all NCCARF and Network members a safe, happy and green Holiday Season. See you all next year. More Network news: www.nccarf.edu.au/settlements-infrastructure



Dr James Ward (UniSA) and Dr Bill Peirson (UNSW) present at the Early Career Researcher forum

Adaptation Research Network contacts:

Terrestrial Biodiversity co-convened by Professor Stephen Williams (JCU), and Professor Lesley Hughes (Macquarie). Contact: Coordinator Yvette Williams on yvette.williams@jcu.edu.au

Water Resources & Freshwater Biodiversity convened by Professor Stuart Bunn (Griffith). Contact: Coordinator Sam Capon at climate.water@griffith.edu.au

Marine Biodiversity & Resources convened by Associate Professor Neil Holbrook (UTas). Contact: Coordinator Clare Brooker arnmbr@arnmbr.org

Human Health convened by Professor Tony Capon (ANU). Contact: Coordinator Peter Thomas arn.humanhealth@anu.edu.au

Settlements & Infrastructure convened by Associate Professor Ron Cox (UNSW). Contact: Coordinator Tamara Rouse accarnsi@unsw.edu.au

Primary Industries convened by Professor Snow Barlow (Melbourne) Contact: Coordinator Alison Turnbull piarn-coordinator@unimelb.edu.au

Emergency Management convened by Professor John Handmer (RMIT). Contact: Coordinator Frank Yardley frank.yardley@rmit.edu.au

Social, Economic & Institutional Dimensions convened by Associate Professor Jon Barnett (Melbourne). Contact: Coordinator Tina Soundias tinass@unimelb.edu.au

NCCARF Seminars:

NCCARF hosts regular climate change adaptation seminars and networking events. To suggest speakers or host a seminar at your organisation, email j.langan@griffith.edu.au. Slides and audio from most past seminars can be viewed online at www.nccarf.edu.au

Visiting research Fellow



NCCARF will welcome its second visiting research fellow, Dr Declan Conway, in February 2011.

A senior lecturer in the School of International Development at the University of East Anglia, UK, Declan's research focuses on

the interactions between climate and society, with a particular focus on water resources.

He has extensive research experience in developing countries, including Bangladesh, China, India, and parts of South America and East Africa and is involved with the Tyndall Centre Research Programme on International Development and Climate Change.

While in Australia, Declan will work on a project to identify lessons for improved adaptation planning across NCCARF and wider Pacific/Asia adaptation initiatives. The work will include a focus on water resources management and consider adaptation in the context of sharing lessons with international development programs.

While in Australia, Declan will deliver a series of seminars around Australia as part of the NCCARF Seminar Series.

Visit www.nccarf.edu.au/nccarf-seminars for details of upcoming seminars.

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If you have comments, feedback or news items you would like included in the next NCCARF Newsletter please contact Jeannette Langan j.langan@griffith.edu.au. To receive this newsletter please subscribe online at www.nccarf.edu.au/user/register

The views expressed herein are not necessarily the views of the Commonwealth and the Commonwealth does not accept responsibility for any information or advice contained within.

Other events

The 'Bommie' Awards: Searching out innovative concepts to preserve the Great Barrier Reef in the face of climate change

Entries are invited for the Great Barrier Reef Foundation's *Bommie Awards*, that recognise innovative adaptation solutions or concepts for the Great Barrier Reef. The prize includes \$10,000 funding to communicate, develop or advance your idea. Entries close 18 February 2011. For further details and to apply visit www.barrierreef.org or email info@barrierreef.org

CCRSPI conference - 15-17 February 2011, Melbourne.

The inaugural Climate Change Research Strategy for Primary Industries (CCRSPI) Conference is a unique interface between climate change research, policy and the farm that will deliver the country's only dedicated primary industries and climate change conference. Early-bird registration closes December 20. Register: www.theccrspiconference.com.au

Conference proceedings online

Proceedings from this year's NCCARF-CSIRO International Climate Change Adaptation Conference in June, including audio, video and slides from selected sessions, are online at www.nccarf.edu.au/conference2010

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