

Program of Parallel sessions

Thread 1 – Understanding and communicating adaptation

1.1 Scenarios for the future of adaptation

Convened by **Tim Carter** (Finnish Environment Institute, SYKE), **Mark Stafford Smith** (CSIRO)

Oral presentations – Day 1 (2:00pm-3:30pm)

Systematic and transparent exploration of scenario spaces: Socio-economic scenarios for local climate change adaptation, **Henrik Carlsen**, Swedish Defence Research Agency, Sweden

Using Scenarios to Explore the Complexities and Adaptation Strategies of Future Arctic Marine Navigation, **Lawson Brigham**, University of Alaska Fairbanks, United States

Future makers or future takers? A scenario analysis of climate change and the Great Barrier Reef, **Erin Bohensky**, CSIRO Sustainable Ecosystems, Australia (**Presented by James Butler**)

Mapping Population and Climate Change Vulnerabilities: Challenges of Reaching Policy Audiences, **Sean Finnegan**, Population Action International, United States

Looking ahead and adapting? Comparative analysis of future scenarios for the fisheries sectors in Peru, Senegal, Ghana and Vietnam, **Marie-Caroline Badjeck**, The WorldFish Center, Malaysia

Understanding Design for planning alternative landscape futures to adapt to Climate Change: Learning from Temporal inconsistencies in vulnerability and adaptation studies, **David Brunckhorst**, Institute for Rural Futures, Australia

Poster presentations – Day 1 (6:15pm-7:30pm)

The Limits of Adaptation, **Clive Attwater**, SGS Economics and Planning, Australia

Adapting to the Confluence of Impacts in Australian Cities: One Shock Away from Disaster and the Benefit of Resilience Planning, **Donovan Burton**, Climate Risk Pty Ltd, Australia

Promoting resilience to disasters and climate change: a review of current activities and future research needs, **Riyanti Djalante**, Macquarie University, Australia

Towards systemic and adaptive governance: understanding framings and relational dynamics of climate change adaptation, **Andrea Grant**, Monash University, Australia

Modelling Scenarios of Future Adaptation using an Agent Based Simulation Framework, **Cecily Maller**, RMIT University, Australia (**Presented by Sarah Hickmott**)

Perverse Adaptation Strategies: Four Scenarios, **Earl Saxon**, United States

Scenario Planning for Climate Change Adaptation, **Silvia Serrao-Neumann**, Griffith University, Australia

Stakeholders, scenarios and systemic planning, **Leon Soste**, Future Farming Systems Research Division, Department of Primary Industries Victoria, Australia

Scenario Planning for a resilient irrigated agribusiness community in Sunraysia, **Caroline Welsh**, Department of Primary Industries Victoria, Australia

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1.2 Climate information for users

Convened by Chris West and Roger Street (UK Climate Impacts Programme), Andrew Watkins (Bureau of Meteorology)

Oral presentations – Day 2 (11:00am-12:30pm)
<i>Rapid assessment of the impacts of climate change (RAICC)</i> , Adam Fenech , Environment Canada, Canada
<i>Development of high resolution integrated climatologies for Marine Protected Areas</i> , Karsten Shein , NOAA National Climatic Data Center, United States
<i>Pacific Island Climate Forecasts for late 2009; a canary in the mine? The importance of climate services for users</i> , Andrew Watkins , Bureau of Meteorology, Australia
<i>Potential benefits of a storyline approach to the provision of regional climate projection information</i> , Penny Whetton , CSIRO Atmospheric Research, Australia
<i>Delivering Useful Climate Information in the UK: Continuing to learn lessons</i> , Roger Street , UKCIP, United Kingdom (Presented by Chris West)
<i>Pacific Storms Climatologies: Products and Applications</i> , John Marra , NOAA NCDC IDEA Center, United States

Poster presentations – Day 2 (7:30am-8.30am)	Ref #
<i>Vulnerable Assessment in Jakarta and Java Island</i> , Siti Badriyah , IESR-Climate Change Officer, Indonesia (Presented by Febi Dwirahmadi)	B1
<i>Probability ensembles of 21st century range changes among micro-hylid frogs of Australia's Wet Tropics</i> , Linda Beaumont , Macquarie University, Australia	B2
<i>Information overload and risks in climate adaptation for local government authorities</i> , Donovan Burton , Climate Risk Pty Ltd, Australia	B3
<i>A new climate change monitoring website for the South Pacific</i> , Dean Collins , Bureau of Meteorology, Australia	B4
<i>Modelling and Simulation of Consumption Behaviour to Support Climate Adaptation</i> , Lan Ding , CSIRO, Australia	B5
<i>The Canadian Climate Change Scenarios Network: Linking Global Climate Models to Local Decision-Making</i> , Adam Fenech , Environment Canada, Canada	B6
<i>Development, Dissemination, and Application of Drought Indices for Monitoring and Forecasting Drought in the Southeast USA</i> , Keith Ingram , Southeast Climate Consortium/University of Florida, United States	B7
<i>Economic predictions of flood damages with respect to the extreme rainfall in Japan</i> , So Kazama , Tohoku University, Japan	B8
<i>Dealing with uncertainty in forest management under climate change</i> , Emina Krcmar , University of British Columbia, Canada	B9
<i>A stochastic downscaling method for generating future climate projections across New South Wales</i> , De Li Liu , Industry & Investment NSW, Australia	B10
<i>Assessing the impacts of climate change on the water resources in the Nile Basin using a regional climate model ensemble</i> , Met Office Consulting Team , UK	B11
<i>Impacts of climate change on the UK energy industry</i> , Met Office Consulting Team , UK	B12
<i>Investment Decisions for Climate Change Adaptation</i> , Michael Nolan , AECOM, Australia	B13
<i>Scenarios vs probabilistic futures: towards a risk-based understanding of climate change and adaptation priorities</i> , Andy Reisinger , Victoria University of Wellington, New Zealand	B14
<i>Adapting in a worst case climate change world</i> , Rob Swart , Alterra, Netherlands	B15
<i>Projections of future drought in Australia using AR4 climate models</i> , Jozef Syktus , Queensland Climate Change Centre of Excellence	B16
<i>The threat of climate change and adaptation behaviours: Studies of the New South Wales population in 2007 and 2010</i> , Melanie Taylor , University of Western Sydney, Australia	B17
<i>Beyond fluffy findings. Making qualitative research on climate change useful for decision making</i> , Elissa Waters , Department of Planning and Community Development Victoria, Australia	B18

Local Climate Impacts Profile - a way to help adapters ask better questions of climate science, Chris West , UKCIP, United Kingdom	B19
Modelling Extreme Events in a Changing Climate using Regional Dynamically-Downscaled Climate Projections, Chris White , Antarctic Climate & Ecosystems Cooperative Research Centre, Australia	B20
Applicability of Ensemble Pattern Scaling Method on Climate Change Information Construction: A Case Study of South East Queensland Climate Change Mapping, Wei Ye , CLIMSystems Ltd, New Zealand	B21

1.3 Risk communication and behavioural change

Convened by **Jan McDonald (Griffith University)** and **Susanne Moser (Institute for the Study of Science and Environment)**

Oral presentations – Day 2 (2:00pm-3:30pm)	
Communication strategies to support successful implementation of managed retreat from coastal margins and floodplains: Examples from New Zealand, Anna Carter , Ministry for the Environment, New Zealand	
Risk Perception and Adaptation to Climate Change: Comparative Case Studies, Chris Button , Australia	
Understanding Perceptions of Future Climate Change to Inform Adaptation Needs: A Case Study of the Rewa Delta, Viti Levu Island, Fiji, Shalini Lata , University of The South Pacific, Fiji	
Transforming domestic consumption patterns in urban water supply in South East Queensland, Michelle Maloney Griffith University, Australia	
Interviewing sceptical farmers about climate change adaptations, Geoff Kuehne , CSIRO, Australia	
Enabling Climate Adaptation: Navigating Communication Pathways, Tahia Devisscher , Stockholm Environmental Institute, Oxford, United Kingdom (Presented by Anna Taylor)	

Poster presentations – Day 2 (7:30am-8:30am)		Ref #
Adaptigators: Addressing climate change through building social capital, Peta Ashworth , CSIRO, Australia		B22
Could non-cash rewards change behaviour and motivate homeowners to respond to the risk of flooding caused by dangerous climate change? Erik Bichard , University of Salford, United Kingdom		B23
'Facts' and values in climate change science and adaptation policy, Jacqueline De Chazal , Australian National University, Australia		B24
Fear, Hope and Action: Facilitating positive behavioural and social change through exploring, visualising and communicating alternative futures and pathways, Taegen Edwards , University of Melbourne, Australia		B25
Challenges to adaptation in the WA farming community, David Gray , Department of Agriculture & Food Western Australia, Australia		B26
Linking up with opinion leaders and adaptive capacity to climate change in the Sunshine Coast Region, Noni Keys , University of the Sunshine Coast, Australia		B27
Survey of Consumers and Industrial Sectors on Food Safety According to Climate Change, Gun-Hee Kim , Duksung Women's University, South Korea		B28

1.4 Communication of information for adaptation

Convened by **Marie Waschka (NCCARF)**, **Simon Torok (CSIRO)**

Oral presentations – Day 3 (11:00am-12:30pm)	
Climate adaptation strategies and cultural engagements in Mumbai, India: exploring paths to more effective climate governance via mass media communications, Maxwell Boykoff , University of Colorado-Boulder, United States	
The Weakest Link: The uptake of knowledge on vulnerability into decision making, Lisa Dilling , University of Colorado, United States	
Enabling climate adaptation: moving from information provision to knowledge integration, Ben Smith , Stockholm Environment Institute, Oxford, United Kingdom	
Designer guidance: climate change information for New Zealand users, Julie King , Ministry for the Environment, New Zealand	
Indigenous people and climate change adaptation: Facilitating equitable access to information, Emma Woodward , CSIRO, Australia	
Communication and the resilient community, Susan Nicholls , University of Canberra, Australia	

Communicating climate risks and adaptation strategies across stakeholders using video, **Sabrina McCormick**, AAAS/U.S. Environmental Protection Agency, United States

Poster presentations – Day 3 (7:30am-8:30pm)	Ref #
<i>Transitions Town Websites: technologies of communication and power relations</i> , Sarah Adams , University of the Sunshine Coast, Australia	D1
<i>Near Real-Time Agrometeorological Information for Mexican Agriculture: Dissemination and Application</i> , Alma Delia Baez-Gonzalez , INIFAP, Mexico	D2
<i>Prominence given to Climate Change Phenomenon by the Media in sub-Sahara Africa in the Millennium Decade</i> , Olufemi Bolarin , Department of Agricultural Extension and Rural Development, University of Ilorin, Ilorin Kwara State, Nigeria., Nigeria	D3
<i>Communication for acceptance, information access and vulnerability awareness of climate adaptation</i> , Liese Coulter , CSIRO, Australia	D4
<i>Supporting adaptation network through knowledge sharing – a business model</i> , Susanne Etti , Environmental Resources Management, Australia	D5
<i>Hawaii Island Climate Adaptation and Policy- Regional Initiatives</i> , Dolan Eversole , University of Hawaii, United States	D6
<i>Print Media and Climate Change in Bangladesh</i> , Md Aminul Haque , Institute of Public Health, Heidelberg University, Germany	D7
<i>Is adaptation getting a guernsey in the media and online? Examining a case study of the discourse around the 2009 bushfires in Victoria</i> , Claire Harris , CSIRO, Australia	D8
<i>Waves of change: Community discourse on a local policy of 'planned retreat'</i> , Anne Leitch , ARC CoE Coral Reef Studies/JCU/CSIRO, Australia	D9
<i>Successfully managing climate change scepticism in adaptation planning group processes</i> , Scott Losee , AECOM, Australia	D10
<i>Can we save the Great Barrier Reef? An exploratory investigation of climate change communication in Australia</i> , Catherine Naum , James Cook University, Australia	D11
<i>HOPE's work in the area of community education on adaptation/mitigation to anthropogenic climate change</i> , Andrew Nicholson , Householders' Options to Protect the Environment Inc., Australia	D12
<i>Sharing and Communicating Climate Change Adaptation Research in Victoria through an online collaborative platform</i> , Christopher Pettit , Department of Primary Industries Victoria, Australia	D13
<i>A Report Card of Marine Climate Change Impacts and Adaptation for Australia</i> , Elvira Poloczanska , Climate Adaptation Flagship, CSIRO, Australia	D14
<i>A tool for visualizing vulnerability to climate change in the Nordic region</i> , Lynn Rosentrater , University of Oslo, Norway	D15
<i>Rapid Information Delivery: Ten Top Tips For Climate Change Adaptation</i> , Caroline Sullivan , Southern Cross University, Australia	D16
<i>Where is high impact learning for adaptation in schools?</i> , Hilary Whitehouse , James Cook University, Australia	D17
<i>Prepare the next generation for changes – education programs of climate change adaptation at the University of Southern Queensland</i> , Chengyuan Xu , University of Southern Queensland, Australia	D18

1.5 New concepts in adaptation

Convened by Ben Preston (Oak Ridge National Laboratory), Roger Jones (Victoria University of Technology)

Oral presentations – Day 3 (2:00pm-3:30pm)
<i>Circling from Virtuous to Vicious: How the IPCC stopped helping and began hindering adaptive behaviour</i> , Ann Henderson-Sellers , Macquarie University, Australia
<i>Linking Population, Fertility and Family Planning with Adaptation to Climate Change: Views from Ethiopia</i> , Karen Hardee , Population Action International, United States
<i>National climate policy and local adaptation planning: Comparisons across two continents</i> , Elisabeth Hamin , University of Massachusetts, United States
<i>The role of decentralized community-based renewable energy systems for climate change adaptation</i> , Debora Ley , Oxford University Centre for the Environment, United Kingdom
<i>Current concepts of adaptive capacity and its utility for decision making</i> , Phillip Daffara , University of the Sunshine

Coast, Australia (Presented by Tim Smith)
<i>Disciplines and post-disciplinarity in climate change and coastal planning</i> , Bob Pokrant , Curtin Univesrity, Australia

Poster presentations – Day 2 (5:45pm-7:00pm)	Ref #
<i>Assessing resilience of the marine social-ecological system in the Australian region</i> , Julie Davidson , School of Geography and Environmental Studies, University of Tasmania, Australia	C1
<i>Dealing with uncertainty in climate change adaptation planning and developing triggers for future action</i> , Greg Fisk , BMT WBM, Australia	C2
<i>Institutional Adaptation: A framework for climate change adaptation</i> , Patricia Fitzsimons , Department of Primary Industries Victoria, Australia	C3
<i>Planning for climate change: a case study of mainstreaming and integrating adaptation within the Department of Sustainability and Environment</i> , Connie Hughes , Department of Sustainability And Environment Victoria, Australia	C4
<i>Opportunities for Climate Adaptation Learning & Action at the Urban Local Level: The Case of Lahore, Pakistan</i> , Saleem Janjua , RMIT University, Australia	C5
<i>Adaption strategies for changing fish production as a result of global warming</i> , Ian Jones , University of Sydney, Australia	C6
<i>Development of a Strategic Decision Support System to Support Local Governments Decision Making Processes under the Impact of Climate Change</i> , Hamid Mirfenderesk , Gold Coast City Council, Australia	C7
<i>New York City's Unwitting Climate Change Adaptive Technology</i> , Jason Ornstein , New York University, United States	C8
<i>Design Challenge: Climate Change. The Water Atlas. WaterLand Topologies of Hamburg's Elbe River Island</i> , Julia Werner , RMIT University, Australia	C9

Thread 2 – Adaptation by sectors

2.1 Adapting agriculture to climate change (2 sessions) Convened by Mark Howden (CSIRO), Cynthia Rosenzweig (Goddard Institute for Space Studies)

Oral presentations – Session 1: Day 1 (2:00pm-3:30pm)
<i>Adjusting risk management for a changing climate: Experiences with policy makers, dryland farmers and the wine grape industry in South Australia</i> , Peter Hayman , SARDI, Australia
<i>Climate Change Adaptation & Mitigation in Agricultural Societies – A case study in Bundala village, Hambantota, Sri Lanka</i> , Prabhath Patabendi , Centre for Disaster Risk Reduction, Sri Lanka
<i>Farmers' Perceptions and Adaptation Measures towards Climate Change in South India</i> , Ravi Shankar , Central Research Institute for Dryland Agriculture, India
<i>Sustainable adaptation in English agriculture</i> , Nicholas Macgregor , Natural England, United Kingdom
<i>Using general systems theory to understand how farmers manage variability</i> , Lisa Cowan , Department of Primary Industries Victoria, Australia
<i>Adaptation to and impacts of climate change on UK agricultural sectors</i> , Peter Mills , University of Warwick, United Kingdom
<i>Learning from case studies of Australian agriculture adapting to climate change: understanding transformation and transition dynamics</i> , Emma Jakku , CSIRO Sustainable Ecosystems, Australia
Oral presentations – Session 2: Day 2 (11:00am-12:30pm)
<i>The challenges of agricultural production in a future variable and changing climate</i> , Steven Crimp , CSIRO, Australia
<i>Traits and technologies to design crop breeding systems for climate change</i> , Scott Chapman & Fernanda Dreccer , CSIRO Plant Industry, Australia
<i>Climate Change Impacts on Chilean Agriculture: Estimating sectoral adaptation based on changes of productivity and land allocation, under two Climate Change scenarios</i> , Melo Oscar , Pontificia Universidad Católica de Chile, Chile (Presented by Francisco Meza).

<i>Adapting to climate change in broad-acre irrigated farming systems – Case studies from the Riverina region of South East Australia</i> , Donald Gaydon , CSIRO Sustainable Ecosystems, Australia
<i>A risk management framework for assessing climate change impacts, adaptation and vulnerability</i> , Grant Stone , Queensland Climate Change Centre of Excellence, Australia
<i>Adaptation Measures to Climate Change</i> , Batimaa Punsalmaa , Water Authority, Mongolia
<i>Adaptation to climatic variability and change: evidence from the New Zealand dairy industry</i> , Nicholas Cradock-Henry , University of Canterbury, New Zealand

Poster presentations – Day 1 (6:15pm-7:30pm)	Ref #
<i>The value of extension in adaptation: a Victorian case study</i> , Graeme Anderson , Department of Primary Industries Victoria, Australia (Presented by Chris Gerbing)	A10
<i>CO2/heat fluxes: Comparative assessment of flooded and aerobic fields in the Philippines</i> , Ma. Carmelita Alberto , International Rice Research Institute, Philippines	A11
<i>GrassGro indicates that erosion risk drives adaptation of southern tablelands grazing farms to projected climate change</i> , Douglas Alcock , NSW Industry and Investment, Australia (Presented by Andrew Moore)	A12
<i>A Synthesis of Practice and Theory: Enhancing Agriculture's Capacity to Adapt to Climate Change</i> , Meghan Bond , Department of Primary Industries, Australia	A13
<i>Response to elevated Co2 of various genotypes differing in tillering, wsc accumulation, transpiration efficiency and early vigour</i> , Maryse Bourgault , CSIRO Climate Adaptation Flagship, Australia	A14
<i>Assessing the adaptive capacity of Tasmanian producers to climate change</i> , Kerry Bridle , TIAR/CSE, Australia	A15
<i>Limits and opportunities for adaptation of forest and livestock-based livelihoods in Northern Mali: Perceptions, Scales, and Strategies</i> , Maria Brockhaus , CIFOR, Indonesia	A16
<i>Predicting climate change impacts on the toxicity and yield of a tropical root crop: cassava</i> , Anna Burns , Monash University, Australia	A17
<i>Protection from crop diseases for food security in future climates</i> , Sukumar Chakraborty , CSIRO Plant Industry, Australia (Presented by Jo Luck)	A18
<i>Evaluation of the Impacts of the Fast Track Land Reform Programme on Climate Change and Disaster Management in Zimbabwe: A Case of Chegutu District</i> , Percyslage Chigora , Midlands State University, Zimbabwe	A19
<i>Developing and implementing grains best management practices for managing climate variability and climate change</i> , Jeff Clewett , Agroclim Australia, Australia	A20
<i>Australian Agriculture : adaptations to climate change</i> , Ian Craig , University of Southern Queensland, Australia	A21
<i>Adapting pasture-based dairy systems to future climates</i> , Brendan Cullen , University of Melbourne, Australia	A22
<i>Historical trends in fruit tree chilling in Australia</i> , Rebecca Darbyshire , University of Melbourne, Australia	A23
<i>Impact of climate change on wheat yields in Western Australia. Will wheat production be more risky in the future?</i> Imma Farre , Department of Agriculture and Food Western Australia, Australia	A24
<i>An integrative approach to understanding the pest and disease threats to agricultural biosecurity under future climates</i> , Kyla Finlay , Department of Primary Industries Victoria, Australia (Presented by Jo Luck)	A25
<i>Food security in the future may be compromised by lower nutritional value and increased toxicity of crop plants</i> , Roslyn Gleadow , Monash University, Australia	A26
<i>A New Paddy Planting System to Mitigate Methane Gas Emission</i> , Eri Hadyansyah , Brawijaya University, Indonesia	A27
<i>Modeling interannual variation of crop productivity: Towards global crop forecasting</i> , Toshichika Iizumi , National Institute for Agro-Environmental Sciences, Japan	A28
<i>Climate change effects on crop production and livelihoods in the Tanganyika and Kivu lakes region</i> , Karume Katcho , CRSN Lwiro, Democratic Republic of the Congo	A29
<i>Facilitated social learning experiences are important for sustainable land-use practice change</i> , Allyson	A30

Lankester , CSIRO & James Cook University, Australia	
<i>Toward the synthesis of implications of climate change for regional food security: modelling approach and a case study</i> , Yinpeng Li , International Global Change Centre, The University of Waikato, New Zealand	A31
<i>Climate change effects on winter chill for temperate fruit and nut trees around the world</i> , Eike Luedeling , World Agroforestry Center (ICRAF), Kenya	A32
<i>Comparison of the Potential Impacts of Changes in Mean and in Climate Variability on Wheat Production Systems</i> , Qunying Luo , The University of Technology, Sydney, Australia	A33
<i>Development of a model for predicting the damages of typhoons on paddy rice in Japan</i> , Yuji Masutomi , Center for Environmental Science in Saitama, Japan	A34
<i>Impacts of ENSO on rice production in China</i> , Zhaosu Meng , University of New South Wales, Australia	A35
<i>Enhancement of the GRAZPLAN grazing systems models for climate change adaptation studies</i> , Andrew Moore , CSIRO Climate Adaptation Flagship, Australia	A36
<i>Assessing potential impacts of climate change on berry quality for major wine grape varieties</i> , Nyamdoj Namjildorj , Curtin University, Australia	A37
<i>Trees on farms: Tackling the triple challenge of mitigation, adaptation and food security</i> , Henry Neufeldt , World Agroforestry Centre, Kenya (Presented by Eike Luedeling)	A38
<i>Optimal phenological development for spring wheat across Victoria under present and possible future climates</i> , Garry O'Leary , Department of Primary Industries, Victoria, Australia	A39
<i>Climate change impacts and adaptation strategies for the mixed crop-livestock farming systems of Tasmania</i> , David Parsons , Tasmanian Institute of Agricultural Research, Australia	A40
<i>Applying the farm scale system model APSFarm to explore adaptation options available to irrigated grain-cotton farming systems</i> , Brendan Power , Department of Employment, Economic Development and Innovation Queensland, Australia	A41
<i>Adapting Rainfed Agriculture to Impacts of the Climate Change in the Semi-Arid Tropics of India</i> , Bharat Sharma , International Water Management Institute, India	A42
<i>Transforming Australia's peanut value chains to adapt to future climates</i> , Peter Thorburn , CSIRO, Australia (Presented by Nadine Marshall and Emma Jakku)	A43
<i>Climate change and irrigated agriculture: impacts and adaptation strategies in the Rio Segundo basin, Argentina</i> , María Isabel Travasso , INTA, Argentina	A44
<i>Attribution of earlier winegrape ripening in the Southern hemisphere: analysis of vintage records</i> , Leanne Webb , University of Melbourne/CSIRO, Australia	A45
<i>Climate change and response measures for developing Agriculture in Vietnam</i> , Ngyen Van Viet , National Institute of Meteorology, Hydrology and Environment, Vietnam	A46
<i>Impact of climate change on partitioning efficiency of pigeon pea (<i>Cajanus cajan</i>), a grain legume for semi arid rainfed ecosystems of the tropics</i> , Maddi Vanaja , Central Research Institute for Dryland Agriculture, India (Presented by Ravi Shankar)	A47
<i>Rapid assessment of climate change uncertainty in evaluations of adaptation options</i> , Nicholas Webb , CSIRO Sustainable Ecosystems, Australia	A48
<i>Greater use of kangaroos to produce low-emission meat and adapt to climate change on the rangelands</i> , George Wilson , Australian Wildlife Services, Australia	A49
<i>Opinions about climate change and adaptation: A study using Q methodology to investigate the views of stakeholders in the livestock industry</i> , Anita Wreford , Scottish Agricultural College, United Kingdom (Presented by Clare Hall)	A50
<i>Modeling rice cropping schedules in the Vietnam Mekong Delta for adapting to changes in flooding, salinity intrusion and monsoon rains</i> , Masayuki Yokozawa , National Institute for Agro-Environmental Sciences, Japan	A51

2.2 Water sector adaptation: innovations

Convened by Kathy Jacobs (Arizona Water Institute), Bryson Bates (CSIRO), Stuart Bunn (Griffith University)

Oral presentations – Day 2 (2:00pm-3:30pm)

Managing Water Resources under Climate Uncertainty: Challenges and Opportunities, **Bryson Bates**, CSIRO Climate

Adaptation Flagship, Australia
<i>Adaptive strategies to Mitigate the Impacts of Climate Change on European Freshwater Ecosystems</i> , Martin Kernan , Environmental Change Research Centre, United Kingdom
<i>Assessment of the challenges in adapting water resources and water infrastructure to climate change—a review</i> , Eytan Rocheta , Australian Climate Change Adaptation Research Network for Settlements and Infrastructure, Australia
<i>Effective water planning to maintain water supply at acceptable levels of risk</i> , Mark Summerton , Umgeni Water, South Africa
<i>Changing Monsoon Pattern and its Impact on Water Resources in Himalaya: Responses & Adaptation</i> , Prakash Chandra Tiwari , Kumaun University, India
<i>Water Planning and adapting to Climate Change in Australia: Policy, Law and Practice</i> , Poh-Ling Tan , Griffith Law School, Australia

Poster presentations – Day 2 (5:45pm-7:00pm)	Ref #
<i>Adaptation Strategies for Safe Water Supply in the Coastal Region of Bangladesh</i> , Mehdi Azam , Institute of Forest and Environmental Policy, Germany (Presented by Tapan Sarker)	C10
<i>Zambia Climate Change Risk Case Study</i> , Bill Bohn , Tetra Tech Inc., United States	C11
<i>Climate change impacts on the water resources of the river basins</i> , Guillermo Cardoso-Landa , Instituto Tecnológico de Chilpancingo, Mexico	C12
<i>WINDSCREEN: A visualisation tool for engaging the community about water allocation decisions</i> , Michelle Graymore , Deakin University, Australia	C13
<i>Climate Change Impacts and Adaptation in the Berg Water Management Area of South Africa</i> , Trevor Lumsden , University of KwaZulu-Natal, South Africa	C14
<i>Building adaptive capacity in the water sector through scenarios and simulations: examples from Phoenix, Arizona</i> , Christy Mercer , Arizona State University, United States	C15
<i>Reducing drought vulnerability by drought characterizing using meteorological data and spatial soil moisture modelling</i> , Budi Hadi Narendra , Forestry Research Institute of Mataram, Indonesia	C16
<i>Design flood estimation under Climate Change: the need for Continuous Simulation</i> , Sahani Pathiraja , University of New South Wales, Australia	C17
<i>Challenges and issues in managing water resources with global climatic changes – How vulnerable Sri Lanka as a small island country in the Southern Hemisphere</i> , Prabhath Patabendi , Centre for Disaster Risk Reduction, Sri Lanka	C18
<i>Determining the impacts of climate change on water availability across south eastern Australia: the SEACI initiative</i> , David Post , CSIRO Land and Water, Australia	C19
<i>Urban Water Supply in an Energy Constrained Australia: the water-energy nexus</i> , Eytan Rocheta , ACCARNSI (NCCARF), Australia	C20
<i>Determination of the Effectiveness of Chemical Film Monolayers under Wind and Wave Conditions</i> , Peter Schouten , Griffith University, Australia	C21
<i>A roadmap for climate change adaptation process on a multipurpose hydropower and agriculture basin in central Chile</i> , Sebastian Vicuna , Centro Interdisciplinario de Cambio Global. Pontificia Universidad Catolica de Chile., Chile	C22

2.3 Ecosystems (2 Sessions)
Convened by Rik Leemans (Wageningen University), Guy Midgley (South African National Biodiversity Institute), Alistair Hobday (CSIRO)

Oral presentations – Session 1: Day 3 (11:00am-12:30pm)
<i>Marine Climate Change Impacts & Adaptation Report Card: Seabirds</i> , Lynda Chambers , Centre for Australian Weather and Climate Research, Bureau of Meteorology, Australia
<i>When should we stop learning about climate impacts on biodiversity and act?</i> Eve McDonald-Madden , CSIRO Sustainable Ecosystems, Australia (Presented by Tara Martin)
<i>Conservation planning for adaptation to climate change: an operational framework</i> , Bob Pressey , James Cook University, Australia (Presented by Stephen Williams)
<i>An integrated framework for assessing the vulnerability of biodiversity to climate change: prioritising research and</i>

<i>adaptation strategies</i> , Stephen Williams , James Cook University, Australia
<i>Understanding Climate Change Impacts and Adaption for Ecosystems Using Qualitative Models</i> , Jonathan Rhodes , The University of Queensland, Australia
<i>Ecosystem Services for Adaptation to Climate Change: Case Studies from Semi-Arid Botswana, Africa</i> , Mogodisheng B.M. Sekhwela , University of Botswana, Botswana
<i>An integrated regional approach to climate adaptation – the Great Barrier Reef Climate Change Action Plan</i> , Paul Marshall , Great Barrier Reef Marine Park Authority, Australia
<i>A biome comparison of forest ecosystem dynamics, biodiversity and climate change impacts</i> , Brendan Mackey , The Australian National University, Australia
Oral presentations – Session 2: Day 3 (2:00pm-3:30pm)
<i>Marine climate change impacts: Out of sight but not out of mind</i> , Anthony Richardson , University of Queensland, Australia
<i>Coral arks: a triage model for marine resource management based on coral resilience</i> , Alison Jones , Centre for Environmental Management, Central Queensland University, Australia
<i>Assessing and managing extinction risk under climate change</i> , Tracey Regan , The University of Melbourne, Australia
<i>Minimising conflicts in a changing climate: integrating biodiversity conservation, urban growth and climate change adaptation</i> , Kerrie Wilson , The University of Queensland, Australia (Presented by Lochran Traill)
<i>Nature's Technology: An ecosystem-based approach to adaptation</i> , Caroline Cowan , United Kingdom
<i>More than CO2: the role of native vegetation in climate change mitigation and adaptation</i> , Clive McAlpine , The University of Queensland, Australia
<i>Plant invasions in Mediterranean climate “hotspots” of Australia and South Africa: do past invasions inform us about plant responses to future climate change?</i> Bruce Webber , CSIRO Climate Adaptation National Research Flagship, Australia
<i>Vegetation change and migration in protected areas and biological corridors under climate change scenarios in Mesoamerica</i> , Bruno Locatelli , CIRAD-CIFOR, Indonesia

Poster presentations – Day 2 (5:45pm-7:00pm)	Ref #
<i>Species distribution modelling for climate change adaptation: a koala case study</i> , Christine Adams-Hosking , The University of Queensland, Australia	C23
<i>Multiple Ecosystem stable states and Desertification</i> , David Anokye Asamoah , International Assistance for Community Development (INACOD), Ghana	C24
<i>Effect of different plant functional groups on methane emissions from wetland ecosystems</i> , Gurbir Singh Bhullar , Institute of Integrative Biology, ETH, Zurich, Switzerland	C25
<i>The east coast Tasmanian rock lobster fishery: vulnerability to climate change impacts and adaptation response options</i> , Stewart Frusher , University of Tasmania, Australia	C26
<i>Tree rings trends of pine and fir trees growing on the treeline zone in central Mexico</i> , Armando Gomez , Colegio de Postgraduados, Mexico	C27
<i>Observed and anticipated impacts in response to climate change on aquifer temperature</i> , Luminda Gunawardhana , Tohoku University, Japan	C28
<i>An ocean acidification overview: effects on marine organisms and implications for the future</i> , Vanessa Hernaman , Queensland Climate Change Centre of Excellence, Queensland State Government, Australia	C29
<i>Measuring and monitoring climate change adaptation: developing a system for long-term biodiversity and ecosystem research</i> , Jean-Marc Hero , Environmental Futures Centre, Australia	C30
<i>Assessing stress to ecosystems caused by future climate change to inform broad adaptation policy and planning at a continental scale</i> , David Hilbert , CSIRO, Australia	C31
<i>Networking across global marine ‘hotspots’</i> , Alistair Hobday , CSIRO, Australia	C32
<i>Using climate change scenarios to direct habitat restoration</i> , Tina Lawson , CSIRO Sustainable Ecosystems, Australia (Presented by Helen Murphy)	C33
<i>Taking a landscape scale approach to adaptation for the natural environment</i> , Nicholas Macgregor , Natural England, United Kingdom	C34
<i>Interacting Effects between Climate Change and Habitat Loss on Biodiversity: A Systematic Review and Meta-Analysis</i> , Chrystal Mantyka-Pringle , University of Queensland, Australia	C35

<i>Increasing The Resilience Of The Cape Floristic Region To The Impacts Of Climate Change Through The Wise Design And Implementation Of Systematic Biodiversity Plans</i> , Kerry Maree , CapeNature, Kirstenbosch National Botanical Gardens, South Africa	C36
<i>Altitudinal associations of Springatil assemblages in an Australian subtropical rainforest: implications for future climate change</i> , Sarah Maunsell , Griffith University, Australia	C37
<i>Assessing uncertainty in projections of future climate change in cool temperate rainforest biota of south-eastern Australia</i> , Verity Miles , Museum Victoria, Australia	C38
<i>Environment Protection, Biodiversity Conservation and Climate Change Adaptation: Australia's EPBC Act, with reference to a case study from Australia's largest river system</i> , Gina Newton , Department of the Environment, Water, Heritage and the Arts, Australia	C39
<i>Assessment of vulnerability and adaptation to climate change in Rio de la Plata artisanal fisheries through a participatory methodology</i> , Alvaro Ponce , Ministry of Environment, Uruguay	C40
<i>Modelling coastal saltmarsh response to sea-level rise to predict vulnerability and resilience</i> , Kerrylee Rogers , NSW Department of Environment, Climate Change and Water, Australia	C41
<i>Climate-adaptive National Conservation Planning in Papua New Guinea</i> , Earl Saxon , United States	C42
<i>In a rapidly changing climate, how do we define an invasive species?</i> John Scott , CSIRO Climate Adaptation Flagship, Australia	C43
<i>Present-day variability in Great Barrier Reef carbonate chemistry and implications for future ocean acidification</i> , Emily Shaw , The University of New South Wales, Australia	C44
<i>The Great Barrier Reef adapting to climate change: identifying options for intervention</i> , Judith Stewart , Great Barrier Reef Foundation, Australia	C45
<i>Deer impact on subalpine forest ecosystem in Japan: Indirect effect of climate change?</i> Toru Takeuchi , Central Research Institute of Electric Power Industry, Japan	C46
<i>Developing an integrated approach to climate change refugia in Old, Climatically Buffered, Infertile Landscapes (OCBILs)</i> , Grant Wardell-Johnson , Curtin University, Australia	C47
<i>Role of rainfall change on the patterns and processes of terrestrial ecosystems</i> , Wei Wei , State Key Laboratory of Urban and Regional Ecology, RCEES,CAS, China	C48
<i>Predicting the Impact of Climate Change on Peatlands in the Bogong High Plains, Victoria, Australia</i> , Andrea White , University of Melbourne, Australia	C49
<i>The potential impacts of climate change and land transformation on biodiversity in Mediterranean climate south-west Western Australia – a global biodiversity hotspot</i> , Colin Yates , Western Australian Department of Environment and Conservation, Australia	C50

Thread 3 – Adapting from the grass roots

3.1 A Climate of Uncertainty: Indigenous Land Managers, vulnerabilities and adaptation to climate change

Convened by Marcia Langton (University of Melbourne)

Oral presentations – Day 1 (2:00pm-3:30pm)

Nolan Hunter and **Sonia Leonard**, Kimberley Land Council

Gunditj Mirring Traditional Owners Aboriginal Corporation

Viv Sinnamon and **Philip Mango**, Kowanyama Land and Natural Resource Management Office

Torres Strait Regional Authority

3.2 National and sub-national case studies of adaptation (2 sessions)

Convened by Emma Tompkins (University of Leeds), Heather McGray (World Resources Institute)

Oral presentations – Session 1: Day 2 (11:00am-12:30pm)

What is next for Australian local government? - Moving from Local Adaptation Pathways to integrated adaptation planning and decision making, **Zafi Bachar**, AECOM, Australia

Adaptation policy in Germany and multi-level governance, **Achim Daschkeit**, Federal Environment Agency, Germany

<i>Adapting to Climate Change at Multiple Governance Levels: Insights from Australia</i> , Pedro Fidelman , Australian Research Council Centre of Excellence for Coral Reefs Studies, James Cook University, Australia
<i>Local and large-scale approaches to adaptation in Canada</i> , Pamela Kertland , Natural Resources Canada, Canada
<i>The Adaptation Atlas: A Case Study in Managing Complex Information Needs for Adaptation</i> , Nisha Krishnan
<i>Climate Change Action Planning by Local Government in NSW</i> , Amy Lovesey , Australia
Oral presentations – Session 2: Day 2 (2:00pm-3:30pm)
<i>From climate change science to adaptation planning and decision making: The Ouranos experience.</i> , Alain Bourque , Ouranos, Canada
<i>Measuring the Unmeasurable: The development of adaptation indicators in England</i> , Caroline Cowan , United Kingdom
<i>Effectiveness of adaptation to climate change in the Netherlands. A sub-national case study at six meters below sea level</i> , Karianne De Bruin , Wageningen University, Netherlands
<i>Adaptation challenges facing the State of Victoria, Australia: an exploration of the evolving institutional response</i> , Darryn McEvoy , RMIT University, Australia
<i>Defining and Assessing Maladaptation</i> , Saffron O'Neill , University of Melbourne, Australia
<i>Observed adaptation to climate change: UK evidence of social transition</i> , Emma Tompkins , SRI, Leeds University, United Kingdom

Poster presentations – Day 2 (7:30am-8.30am)	Ref #
<i>Regional Adaptation to Climate Change in Germany (the KLIMZUG research projects)</i> , Hubertus Bardt , Cologne Institute for Economic Research, Germany	B29
<i>Exploring the adaptation research challenge: a state government perspective</i> , Jennifer Cane , Department of Sustainability & Environment Victoria, Australia	B30
<i>Adaptation to climate change and development cooperation in North Africa</i> , Benjamin Garnaud , IDDRI, France	B31
<i>Adapting to climate change in the UK: UKCIP's Adaptation Framework</i> , Megan Gawith , UK Climate Impacts Programme (UKCIP), United Kingdom (Presented by Chris West)	B32
<i>Assessments of Impacts and Adaptations to Climate Change in Japan using an integrated assessment model, AIM/Impact[Policy]</i> , Yasuaki Hijjoka , National Institute for Environmental Studies, Japan	B33
<i>Recent rapid climate change in south-eastern Australia and its impacts: important lessons for adaptation</i> , Roger Jones , Centre for Strategic Economic Studies, Victoria University, Australia	B34
<i>Developing An Integrated Regional Vulnerability Assessment - A Pilot Project in South Eastern NSW</i> , Christopher Lee , NSW Dept of Environment, Climate Change and Water, Australia	B35
<i>Monitoring, evaluating and reporting climate change adaptation in local governments in Sydney, Australia</i> , Timo Leiter , University of New South Wales, Australia	B36
<i>Taking a landscape scale approach to adaptation for the natural environment</i> , Nicholas Macgregor , Natural England, United Kingdom	B37
<i>Impact assessment of climate change on irrigation and adaptation by a distributed water circulation model</i> , Takao Masumoto , National Institute for Rural Engineering (NIRE), NARO, Japan	B38
<i>Understanding adaptation perceptions through policy frameworks: a case study from South East Queensland, Australia</i> , Johanna Mustelin , Griffith Centre for Coastal Management and Urban Research Program, SEQCARI, Griffith University, Australia	B39
<i>Climate change, land use policies, and adaptation in Alxa region, Inner Mongolia, China</i> , Henry Neufeldt , Tyndall Centre for Climate Change Research, United Kingdom	B40
<i>Community-based adaptation, vulnerability and poverty</i> , Julie Webb , CARE Australia, Australia	B41
<i>The role of legislation in enabling climate change adaptation at the local government level</i> , Jacqui Yeates , Ministry for the Environment, New Zealand, New Zealand	B42
<i>Vulnerability Assessments as a platform for social learning</i> , Emma Yuen , CSIRO, Australia	B43
<i>Research on climate change adaptation selection in underdeveloped areas of northwest China</i> , Jingjing Zeng , CAS, China	B44

3.3 Constructing and enabling local knowledge

Convened by Donovan Burton (NCCARF), Opha Pauline Dube (University of Botswana)

Oral presentations – Day 3 (11:00am-12:30pm)
<i>Partner or Perish: Regional Governance for Local Adaptation</i> , Benjamin Preston , Oak Ridge National Laboratory, United States
<i>Shared Learning on Adapting to Climate Change: Experiences from the Columbia Basin Trust Initiative - Communities Adapting to Climate Change</i> , Stewart Cohen , Environment Canada and University of British Columbia, Canada
<i>Effective Community Engagement to Reach Agreement over Climate Adaptation: Utilising Consensus Building and Joint Fact-Finding Strategies</i> , Julian Prior , University of New England, Australia
<i>Adapting through local planning: barriers and opportunities for climate adaptation</i> , Thomas Measham , CSIRO, Australia
<i>Lessons learnt from Fiji rural climate change adaptation project</i> , Tony Weir , University of the South Pacific, Fiji (Presented by Leone Limalevu)
<i>Developing citizen science as a communication and research tool for monitoring ecological change in the marine environment</i> , Stewart Frusher , University of Tasmania, Australia
<i>Building Resilience to Climate Change through Community Based Development Planning: Lessons from Addressing Climate Impacts in a Rural Coastal Community in Hawaii</i> , Adam Stein , National Oceanic and Atmospheric Administration, United States

Poster presentations – Day 2 (5.45pm-7:00pm)	Ref #
<i>Communities dealing with transformational change: Insights from a social network approach</i> , Anne-Maree Dowd , CSIRO, Australia	C51
<i>Optimising information use in adaptation planning: Examples from Kiribati</i> , Carmen Elrick , Coastal Zone Management Pty Ltd, Australia	C52
<i>Victorian farmers take positive action and stay informed about climate change and emissions</i> , Chris Gerbing , Victorian Department of Primary Industries, Australia	C53
<i>Indigenous Knowledge in Mitigation and Adaptation to Climate Change among Dry Zone Farmers in Sri Lanka</i> , Badra Hearath , University, Sri Lanka	C54
<i>Learning from experience: deriving lessons from the local level climate adaptation actions in three urban areas of Asia & Africa</i> , Saleem Janjua , RMIT University, Australia	C55
<i>Climate change risk responses through common interests and collective action behaviour: The case of Sydney Bushcare volunteers</i> , Justus Kithia , Macquarie University, Australia	C56
<i>Local government as knowledge brokers for effective climate change adaptation</i> , Anne Leitch , ARC CoE Coral Reef Studies/JCU/CSIRO, Australia	C57
<i>Building agricultural adaptation through understanding farmer attitudes, knowledge and responses to a changing climate</i> , Pamela McRae-Williams , University of Ballarat, Australia (Presented by Michelle Graymore)	C58
<i>Adaptation to climate change. Case studies of two rural Australian communities</i> , Emily Mendham , CSIRO, Australia	C59
<i>Talking climate change with the bush</i> , Clare Mullen , Bureau of Meteorology, Australia	C60
<i>Building the Climate Change Response Capability of Local Governments Units in the Philippines</i> , Linda Peñalba , University of the Philippines Los Baños, Philippines (Presented Dulce Elazegui)	C61
<i>Community Landcare Networks, Social Capital and Adaptation Strategies: Lesson Learned for Community Adaptation to Climate Change</i> , Julian Prior , University of New England, Australia	C62
<i>A problem- oriented approach to adaptation in a business community: lessons learnt from Alpine Shire, Victoria Australia</i> , Carolina Roman , Monash University, Australia	C63
<i>Me & My Community</i> , Tim Saal , Centre for Rural and Remote Mental Health Queensland, Australia	C64
<i>Island Adaptation: Linking Knowledge, Management and Communities in American Samoa</i> , Clare Shelton , American Samoa Coral Reef Advisory Group, American Samoa	C65
<i>Developing Policy for Adaptation to Climate Change at the Indonesian Local Government Levels</i> , Rahayu Yoseph , Griffith University, Australia	C66

3.4 Adaptation and development

Convened by Saleem ul Huq (IIED), Jean-Pascal van Ypersele (Catholic University of Louvain)

Oral presentations – Day 3 (2:00pm-3:30pm)
<i>Reconciling Climate Resilience and Sustainable Urban Development: Perspectives from Vietnam</i> , Iftexhar Ahmed , RMIT University, Australia
<i>Climate Change and sustainable development in Botswana</i> , Opha Pauline Dube , University of Botswana, Botswana
<i>'Adaptation to drought' –learning from Africa</i> , Simon Batterbury , University of Melbourne, Australia
<i>3 (influential but) misleading ideas about adaptation to climate change</i> , Raphal Bill , IDDRI, France (Presented by Benjamin Garnaud)
<i>A framework for assessing and monitoring vulnerability and adaptive capacity</i> , Sarah Park , CSIRO Sustainable Ecosystems, Australia
<i>Identifying problems and finding solutions: using the Climate Vulnerability Index to prioritise adaptation responses</i> , Caroline Sullivan , Southern Cross University, Australia

Poster presentations – Day 3 (7:30am-8:30am)	Ref #
<i>Pacific Island responses to Australian and Japanese governments' assistance in dealing with problems of adaptation to climate change</i> , Yumiko Asayama , Australia	D19
<i>Institutional Challenges to Climate Change Adaptation in NSW, Australia</i> , Alicia Bergonia , Institute of Environmental Studies, University of New South Wales, Australia	D20
<i>Adaptation to climate change in Africa: Challenges and Opportunities identified from Ethiopia</i> , Declan Conway , University of East Anglia, United Kingdom	D21
<i>Evolving sustainability supportive ecosystem approach to climate policy in Guyana: Rising above the gathering storm of the political ecology of climate change adaptation</i> , John Carthey Caesar , University of Guyana, Guyana	D22
<i>Linking Disaster Risk Reduction and Climate Change Adaptation in Indonesia</i> , Riyanti Djalante , Macquarie University, Australia	D23
<i>Strengthening the Link Between Climate Change Adaptation and National Development Plans: Lessons from the Case of Population in NAPAs</i> , Karen Hardee , Population Action International, United States	D24
<i>Adaptation by the Australian mining industry in response to climate change</i> , Jane Hodgkinson , CSIRO, Australia	D25
<i>Sustainability Assessment of a Climate Change Adaptive Urban Development: Coolum Ridges, Sunshine Coast, Australia; as a Demonstration Project</i> , Greg Laves , University of the Sunshine Coast, Australia	D26
<i>Planning for the Coast: Sea Level Rise, Significant Coastal Events and Preserving Land and Development – an Analysis of Site-Specific New South Wales Case Studies</i> , Tayanah O'Donnell , Urban Research Centre, University of Western Sydney, Australia	D27
<i>Formulating a Implementable Climate Change Adaptation Policy for Sri Lanka</i> , Chandani Panditharatne , Griffith University, Australia	D28
<i>Demography, Vulnerability and Climate Change Adaptation</i> , Benjamin Preston , Oak Ridge National Laboratory, United States	D29
<i>Methods for assessing vulnerability of sustainable forest management to climate change</i> , Tim Williamson , Canadian Forest Service, Canada	D30

Thread 4 – Frameworks for adaptation

4.1 The economics and costs of adaptation Convened by Frank Jotzo (Australian National University)

Oral presentations – Day 1 (2:00pm-3:30pm)
<i>Decision Making in a Changing Climate: Responding to Uncertainty, Surprise and the Lag of Impacts</i> , Kelly Levin ,

World Resources Institute, United States
<i>Adapting economics to climate change adaptation</i> , Amar Breckenridge , Frontier Economics, Australia
<i>A HECS on all your houses. Financing climate-induced retreat from coastal inundation</i> , Leo Dobes , Crawford School of Economics and Government, Australia
<i>Shaping Climate Resilient Development</i> , Nicole Gamerov , Swiss Reinsurance Company, Australia
<i>Adding climate impacts and adaptation possibilities to an economic computable general equilibrium model</i> , Philippe Thalmann , EPFL Ecole Polytechnique Fédérale de Lausanne, Switzerland
<i>Adaptation responses and costs for Australia's critical energy network infrastructure – a case study</i> , Justin Harding , Parsons Brinckerhoff, Australia
<i>Impacts of Climate Change to Asian Coastal Areas: The case of Metro Manila</i> , Megumi Muto , Japan International Cooperation Agency, Japan
<i>Implementing information on the costs and benefits of adaptation in a portfolio –based decision framework</i> , Alistair Hunt , University of Bath, United Kingdom

Poster presentations – Day 1 (6:15pm-7:30pm)	Ref #
<i>Weather Extremes: Assessment of Impacts and Hazards for European Regions</i> , Claus Doll , Fraunhofer-Institute Systems and Innovation Research (ISI), Germany (Presented by Andreas Küster)	A52
<i>Equity in the financing of adaptation: a perspective from distributive justice</i> , Francois Gemenne , Sciences Po Paris - Institute for Sustainable Development and International Relations (IDDRI), France	A53
<i>How should we share the global burden of adaptation costs now ... and in future?</i> Kiyoshi Takahashi , National Institute for Environmental Studies, Japan	A54

4.2 The interface of adaptation and mitigation

Convened by **Kathy Hibbard (National Centre for Atmospheric Research)**, **Andrew Ash (CSIRO)**

Oral presentations – Day 2 (11:00am-12:30pm)
<i>Wetland Assimilation: A Case Study of Climate Change Mitigation and Adaptation in New Orleans</i> , Sarah Mack , Tierra Resources LLC, United States
<i>Linkages between adaptation and mitigation in forests: landscapes, communities and policies</i> , Bruno Locatelli , CIRAD-CIFOR, Indonesia
<i>Managing bushfire risk using an integrated assessment of the sustainability of a planned neighbourhood</i> , Melissa James , CSIRO, Australia
<i>Carbon sequestration potential of agroforestry in the African Sahel</i> , Eike Luedeling , World Agroforestry Center (ICRAF), Kenya
<i>Adaptation-Mitigation Interactions in Agriculture – Identifying Synergies and Conflicts</i> , Chris Stokes , CSIRO, Climate Adaptation Flagship, Australia
<i>Potential Consequences of Climate Mitigation for Land Use Change in the 21st Century</i> , Allison Thomson , Pacific Northwest National Laboratory, United States
<i>Implications of Climate Change Impact on Building Energy Efficiency and Mitigation Effectiveness</i> , Xiaoming Wang , CSIRO Climate Adaptation Flagship/CSIRO Sustainable Ecosystems, Australia

Poster presentations – Day 2 (7.30am-8:30am)	Ref #
<i>Policy for sustainable forest development for increasing carbon sink and mitigating climate change</i> , David Anokye Asamoah , International Assistance for Community Development (INACOD), Ghana	B45
<i>Characteristics of Environmental Performance and Carbon Emission of a Korean Traditional Residential Building - focused on the case study by LCA</i> , Chang-U Chae , Korea Institute of Construction Technology, South Korea	B46
<i>Public Lands: Quantifying carbon and climate change impacts</i> , Mark Conlon , NSW Department of Environment, Climate Change and Water, Australia (Presented by Chris Lee)	B47
<i>Expectations and experiences of keeping cool in the Illawarra</i> , Carol Farbotko , Australian Centre for Cultural Environmental Research, Australia	B48
<i>Adaptation and mitigation: developing a tool to achieve an integrated climate change response</i> , Nicole Moffatt , AECOM, Australia	B49
<i>Adaptation with grace: Searching for stability in the non-linear Earth system</i> , Liam Phelan , Macquarie	B50

University, Australia	
<i>How the combination of adaptation strategies and mitigation options, leading to a net CO2-sink, enhances the regeneration of the Peat Colonies, the Netherlands, Rob Roggema, Wageningen University and Research Centre, Netherlands</i>	B51
<i>Towards enabling mitigation of climate change through green technology investment and innovation: an empirical investigation into the Australian offshore oil and gas industry, Tapan Sarker, Asia Pacific Centre for Sustainable Enterprise, Griffith University, Australia</i>	B52
<i>Might socio-agrarian adaptation restore and conserve tropical forest carbon sinks? Sean Sloan, The University of Melbourne/CSIRO, Australia</i>	B53

4.3 Research meets business and industry Convened by Sandra Schuster (Munich RE), Allen Kearns (CSIRO)

Oral presentations – Day 2 (2:00pm-3:30pm)	
<i>Moving beyond impacts: Placing adaptation and resilience at the forefront of tourism development strategies, Emma Calgario, Centre of Tourism and Services Research, Victoria University, Australia</i>	
<i>Tourism, Climate Change and Adaptation: New South Wales Local Government Responses, Nadine White, Regional Futures Institute, Southern Cross University, Australia</i>	
<i>Adaptation of the Australian electricity sector, Jenny Riesz, ROAM Consulting, Australia</i>	
<i>A Reliability Assessment of Railway Track Performance in Extreme Heatwave Events, Minh Nguyen, CSIRO Land and Water, Australia</i>	
<i>Adapting the industry to climate change: the role of climate services, Benjamin Garnaud, IDDRI, France</i>	
<i>Vulnerability of the aquaculture sector to climate change in Vietnam, Marie-Caroline Badjeck, The WorldFish Center, Malaysia</i>	
Panel member: Barbara Norman , University of Canberra, Australia; Simone Gigli , Allen Consulting; Nicole Nelson , Sydney Water; Peter Young , Councillor Gold Coast City Council; Sandra Schuster , Munich RE	

Poster presentations – Day 1 (6:15pm-7:30pm)	Ref #
<i>Lifestyle identity drives reef tourism enterprise resilience and propensity to conserve the Great Barrier Reef, Duan Biggs, ARC Centre of Excellence for Coral Reef Studies, James Cook University, Townsville, Australia</i>	A55
<i>Climate Change: Employment and social policy adaptation implications, Peter Glynn, International Climate Change Consultants, France</i>	A56
<i>Future electricity demand projections for fast growing metropolitan regions in the context of climate change, George Grozev, CSIRO Sustainable Ecosystems, Australia</i>	A57
<i>Developing climate change adaptation strategies for urban infrastructure Donna Lorenz, AECOM, Australia</i>	A58
<i>Tourism and Adaptation to Climate Change in Switzerland : an example of public participation in the Aletsch region, Cecilia Matasci, EPFL Swiss Federal Institute of Technology, Switzerland</i>	A59
<i>Unique Responses by the Sheraton Fiji Resort to the Impacts of Climate Change, Gayle Mayes, University of the Sunshine Coast, Australia</i>	A60
<i>Effective climate change adaptation process for business, Risa Morimoto, Toulouse Business School France, France</i>	A61
<i>Climate change and its impacts on coastal tourism: A Case of Bagamoyo District, Roland Mushi, University of Dar-es-salaam, Tanzania</i>	A62
<i>Feasibility Study for Combining Adaptation Aspect in to the Long Planning Project of the Rail Transportation Sector, Phirada Pruittichaiwiboon, Korea Railroad Research Institute, South Korea</i>	A63
<i>Air Conditioning Energy Requirement for Climate adaptation in Southeast Queensland (SEQ), Seongwon Seo, CSIRO Sustainable Ecosystems, Australia</i>	A64
<i>Dependency of Electricity Demand on Temperature and Economic Growth for South East Queensland, Australia, Chi-Hsiang Wang, CSIRO Sustainable Ecosystems, Australia</i>	A65
<i>Climate and weather impacts on tourism in New Zealand, Jude Wilson, Lincoln University, New Zealand (Presented by Susanne Becken)</i>	A66

Managing Climate Change Adaptation with Knowledge-based Risk Management Approach, **Mingwei Zhou**, CSIRO Sustainable Ecosystems, Australia

A67

4.4 National and international adaptation activities Convened by Joseph Alcamo (UNEP), Youssef Nassef (UNFCCC)

Oral presentations – Day 3 (11:00am-12:30pm)

<i>International Co-operation on Adaptation to Global Environmental Change: the Past, Present and Future of the Earth System Science Partnership (ESSP)</i> , Martin Rice , Earth System Science Partnership (ESSP), France
<i>Supporting Adaptation in Least Developing Countries: The International Geosphere-Biosphere Programme (IGBP) Synthesis, Integration, and Exploration (SIE) Activity</i> , Opha Pauline Dube , University of Botswana, Botswana
<i>Ecosystem-based Adaptation in the National Adaptation Programmes of Action (NAPAs)</i> , Emilia Pramova , Center for International Forestry Research (CIFOR) and Technical University of Munich (TUM), Indonesia
<i>How Europe adapts to climate change</i> , Rob Swart , Alterra, Netherlands
<i>Climate change adaptation and associated policy challenges: an international and national perspective</i> , Greg Picker , AECOM, Australia
<i>The German Adaptation Strategy: good practices and lessons learnt</i> , Petra Mahrenholz , Federal Environment Agency, Germany
<i>Climate Change Adaptation: The Approaches and Issues in India</i> , Shailendra Kumar Mandal , National Institute of Technology Patna, India
<i>Benchmarking the level of adaptation planning in Australian organisations</i> , John Gardner , CSIRO, Australia

Poster presentations – Day 3 (7.30am-8:30am)

	Ref #
<i>Climate Change and Coastal Adaptation Challenges in Albania</i> , Eglantina Bruçi , UNDP Climate Change Programme, Albania (Presented by Robert Kay)	D31
<i>Mainstreaming Climate Change Issue in Bangladesh</i> , Md Aminul Haque , Institute of Public Health, Heidelberg University, Germany	D32
<i>Defining research themes and selecting consortia for adaptation to climate change: Towards national and regional research strategies for The Netherlands</i> , Kim Van Nieuwaal , Knowledge for Climate - Utrecht University, Netherlands	D33
<i>What is Successful Adaptation Research? Science policy challenges for an emerging outcomes-focused discipline</i> , Ryan Meyer , Australian-American Fulbright Commission, Australia	D34
<i>Criteria for allocating international adaptation finance</i> , Jonathan Pickering , The Australian National University, Australia	D35
<i>Climate change adaptation and Australia's managed forests</i> , Libby Pinkard , CSIRO, Australia	D36
<i>Adaptation to climate change in the transport sector</i> , Rebecca Stecker , University of Oldenburg, Germany (Presented by Klaus Eisenack and Maja Rotter)	D37
<i>Synthesis of APN Adaptation Activities in the Asia-Pacific Region</i> , Linda Anne Stevenson , Asia-Pacific Network for Global Change Research (APN), Japan	D38
<i>Developing ENSO-based irrigation water forecast system in a region with limited hydro-meteorological observations to mitigate the impacts of climate variability: a case study in Lombok, Indonesia</i> , Xike Zhang , Queensland Climate Change Centre of Excellence, Department of Environment and Resource Management, Australia	D39

4.5 Adapting to climate change in cities Convened by Shagun Mehrotra (Columbia University), Cynthia Rosenzweig (Goddard Institute for Space Studies)

Oral presentations – Day 3 (2:00pm-3:30pm)

<i>Variations in Urban Climate Adaptation Planning: Implications for Action</i> , Joann Carmin , Massachusetts Institute of Technology, United States
<i>Better understanding the risks of climate change to the City of Toronto</i> , Adam Fenech , Environment Canada, Canada

<i>Supporting local government in planning and decision-making on climate change adaptation: experiences from Australia, Hartmut Fuenfgeld, ICLEI - Local Governments for Sustainability, Australia</i>
<i>Flood risk and climate change: Main challenges to reduce vulnerability in Tunisia, Yadh Labane, Tunisian Association on Climate change and sustainable development (2C2D), Tunisia</i>
<i>Financing climate resilient urban infrastructure development to climate change in developing cities, Jun Li, Wuhan University/IDDRI Sciences Po, China</i>
<i>What is the capacity of local councils in Australia to adapt to climate change impacts in coastal urban areas? Frank Thomalla, Macquarie University, Sydney, Australia</i>
<i>Anticipative planning for future circumstances: The Groningen experience and the development of the swarm planning concept, Rob Roggema, Wageningen University and Research Centre, Netherlands</i>

Poster presentations – Day 3 (7:30am-8:30am)	Ref #
<i>Biomimicry and Urban Resilience, Donovan Burton, Climate Risk Pty Ltd, Australia</i>	D40
<i>Adaptation to sea level rise in Wellington, New Zealand, Chris Cameron, Wellington City Council, New Zealand</i>	D41
<i>Soft Infrastructure for Urban Resilience and Adaptive Capacity in Australia's Coastal Zones—the Role of the Development Control Plans (DCPs), Nan Chen, UNSW/CSIRO, Australia</i>	D42
<i>Facilitating Species' Adaptations to Climate Change: A SEQ Urban Biodiversity Case Study, Jenni Garden, Griffith University, Australia</i>	D43
<i>Adaptation strategies to alleviate the climatic impacts of the "Melbourne 2030" planning strategy, Nadine Marie Josephe D'argent, Monash Univeristy, Australia</i>	D44
<i>Rapid Resilience: A systems based approach to addressing Urban Climate Change Resilience, Sam Kernaghan, Ove Arup and Partners, Thailand (Presented by Cathy Crawley)</i>	D45
<i>Boonah 2 and Gold Coast 2 – Ecologies of Climate Change, Nora Kinnunen, Postgraduate Student - Griffith University QCA, Australia</i>	D46
<i>A differential vulnerability assessment of Darwin, Australia: towards a better understanding of adaptive needs in urban settlements, Geraldine Li, Northern Territory Government Department of Natural Resources, Environment, The Arts and Sport, Australia</i>	D47
<i>Poor, Urban Planning and Adaptation to Climate Change: Tales of Indian Megacities, Shailendra Kumar Mandal, National Institute of Technology Patna, India, India</i>	D48
<i>Planning for resilience through effective governance: improving climate change adaptation in subtropical coastal cities, Johanna Mustelin, Griffith University, Australia</i>	D49
<i>Adapting Cities to Climate Change: Lessons from Local Practices in Australia, Hitomi Nakanishi, CSIRO Sustainable Ecosystems, Australia</i>	D50
<i>Masdar City's Integrated Approach to Sustainability and World's First Zero Carbon City, John Poon, CH2M HILL, Australia</i>	D51
<i>Toward Climate Change Urban Adaptation in Indonesia : Climate Change Vulnerability Assessment in Jakarta and Java Region, Febi Dwi Rahmadi, IESR, Indonesia</i>	D52
<i>Climate change impacts on energy consumption and GHG emissions in Australian housing, Zhengen Ren, CSE, Australia</i>	D53
<i>Exploring the distributional effects of adding carbon charges to the New Zealand household energy sector, Kimberley O'Sullivan, New Zealand Centre for Sustainable Cities, New Zealand</i>	D54
<i>Adapting cities to climate change: a spatial approach to decision making, Arvind Varshney, Hassell, Australia</i>	D55

Thread 5 – Adaptation at the edge

5.1 Coasts, deltas and small islands (2 sessions)
Convened by Robert Nicholls (University of Southampton), Jon Barnett (University of Melbourne), Tim Smith (University of the Sunshine Coast)

Oral presentations – Session 1: Day 1 (2:00pm-3:30pm)
<i>Rising seas and urban development to meet on the Queensland coast: is the clash avoidable?</i> Nick Abel , CSIRO, Australia
<i>Designing rolling easements for resilient coastal development</i> , Russell Gorddard , CSIRO, Australia
<i>From coping to managed retreat – a transition approach for adapting to sea level rise and increased flood frequency</i> , Judy Lawrence , NZ Climate Change Research Institute, School of Government, Victoria University of Wellington, New Zealand
<i>The devil and the deep blue sea: legal responses to climate change risks in Australian coastal communities</i> , Jan McDonald , Griffith University, Australia
<i>Adapting coastal policies and instruments to climate change: a case study from South East Queensland, Australia</i> , Marcello Sano , Griffith Centre for Coastal Management - Griffith University, Australia
<i>Coastal Governance in Western Australia: Mapping response capacity to climate adaptation</i> , Laura Stocker , Curtin University Sustainability Policy Institute, Australia
Oral presentations – Session 2: Day 2 (11:00am-12:30pm)
<i>Household level adaptation: saline intrusion and migration in the Mekong Delta, Vietnam</i> , Olivia Dun , School of Geosciences, University of Sydney, Australia
<i>Climate Change Adaptation in Mangrove Systems</i> , Joanna Ellison , University of Tasmania, Australia
<i>Integrating Climate Change Adaptation and Coastal Zone Management: A Capacity Driven approach for the Republic of Kiribati</i> , Carmen Elrick , Coastal Zone Management Pty Ltd, Australia
<i>Environmental migration from small island states: why islanders should not be seen as ‘canaries in the coalmine’.</i> , Francois Gemenne , Sciences Po Paris - Institute for Sustainable Development and International Relations (IDDRI), France
<i>Barriers to effective climate-change adaptation on islands</i> , Patrick Nunn , The University of the South Pacific, Fiji
<i>Climate change, coastal change, and adaptation on a low-lying coral cay: a case study from Masig, Torres Strait, Australia</i> , Scott Smithers , School of Earth and Environmental Sciences, James Cook University, Australia

Poster presentations – Day 1 (6:15pm-7:30pm)	Ref #
<i>Coastal retreat contribution to carbon cycle of Arctic Ocean on example of Yamal coast, Kara Sea.</i> , Nataliya Belova , Lomonosov Moscow State University, Faculty of Geogaphy, Russia	A68
<i>Climate change and adaptation in coastal zone: case study south western region Bangladesh</i> , Md. Bhuiyan , Monash University, Australia	A69
<i>An assessment of coastal vulnerability for the Australian continent: infrastructure vulnerable to inundation and recession</i> , Robert Cechet , Geoscience Australia, Australia	A70
<i>Managing Sea Level Rise and Coastal Hazards in an Era of Climate Change, Wellington Region, New Zealand</i> , Iain Dawe , Greater Wellington Regional Council, New Zealand	A71
<i>Climate Smart Sanctuary: Bridging the Gap between Scientists and Communities in American Samoa</i> , Emily Gaskin , Fagatele Bay National Marine Sanctuary/National Oceanic and Atmospheric Administration, American Samoa	A72
<i>Three Things to Consider When Estimating Allowances for Sea-Level Rise</i> , John Hunter , Antarctic Climate & Ecosystems Cooperative Research Centre, Australia	A73
<i>The value of time-series data to track climate-driven changes in coastal systems and use in the provision of policy-relevant evidence and advice</i> , Nova Mieszowska , Marine Biological Association of the UK, United Kingdom (Presented by Elvira Poloczanska)	A74
<i>Effects of Changing Climate and Sea Ice Extent on Dynamics of Russian Arctic Coasts</i> , Stanislav Ogorodov , Lomonosov Moscow State University, Russia	A75
<i>Dynamic Assessment of Coastal Vulnerability to Sea-level Rise: When and Where to Adapt?</i> Oz Sahin , Griffith University, Australia	A76
<i>Adaptation Strategies arising from Clarence City Council's Climate Change Impacts on Clarence Coastal Areas Report</i> , John Stevens , Clarence City Council	A77
<i>Climate adaptation information from Digital Elevation Models (DEM)</i> , Benton Wecker , Queensland Government, Australia	A78
<i>Data in support of climate change adaptation in the Pacific</i> , William Wright , Australian Bureau of Meteorology, Australia	A79

5.2 Impacts and adaptation in the tropics **Convened by Suzanne Long (Reef and Rainforest Research Centre)**

Oral presentations – Day 2 (2:00pm-3:30pm)
<i>Climate change and multiple impact assessment for marine management in Melanesia</i> , Timothy Skewes , CSIRO, Australia (Presented by James Butler)
<i>A systematic vulnerability assessment: analysing the vulnerability of sea turtle nesting grounds to climate change</i> , Mariana Fuentes , James Cook University, Australia
<i>Criteria and Indicators for assessing vulnerability to climate change and developing participatory adaptation measures: Javan Rhino conservation, Ujung Kulon National Park, Indonesia</i> , Hety Herawati , Center for International Forestry Research (CIFOR), Indonesia
<i>Knowledge of climate refugia (past and present) to inform conservation in a changing world</i> , Jeremy Vanderwal , Centre for Tropical Biodiversity and Climate Change, James Cook University, Australia
<i>Vulnerability of coastal island and adaptation measures for cyclonic storm surge and climate change in the coastal area of Bangladesh</i> , Md. Mobassarul Hasan , Institute of Water Modelling, Bangladesh
<i>Responding to Community Vulnerability in the Pacific Islands</i> , Nicholas Maclellan , Australia
<i>A Balancing Act: How Small Island Developing States are balancing climate change and development</i> , Caitlin Dix , Saint Mary's University, Canada
<i>Impacts of Climate Change to the Straits of Malacca: The 'Three Major Effects' and Its Policy Remedy</i> , Syed Mohazri Syed Hazari , Maritime Institute of Malaysia (MIMA), Malaysia
<i>Management of coastal environment and sustaining its resource-dependent communities: options for coastal communities in Nigeria</i> , Yemi Akegbejo-Samsons , University of Agriculture, Nigeria

Poster presentations – Day 2 (5:45pm-7:00pm)	Ref #
<i>Impacts of climate on water-use and water-use efficiency of woodlands in the Sudanese Sahel region: a modelling study</i> , Syed Ashrafal Alam , Viikki Tropical Resources Institute (VITRI), Department of Forest Sciences, University of Helsinki, Finland	C67
<i>Observing insects: Traditional entomological knowledge, climate change and adaptive responses in tropical rainforests</i> , Edmond Dounias , IRD/CIFOR/UMR 5175 CEFE, France (Presented by Bruno Locatelli)	C68
<i>Assessment of climate change impacts and development of adaptation options in Kakadu National Park</i> , Greg Fisk , BMT WBM Pty Ltd, Australia	C69
<i>Vulnerability, Impacts and Adaptation to Climate Change in the Semi-arid Region of Northeast Brazil</i> , Jose A. Marengo , CCCST-INPE, Brazil	C70
<i>Exploring vulnerability and local adaptation options to climate change using participatory-action research of a forest community in Lekie, Cameroon</i> , Youssoufa Bele Mekou , Center for International Forestry Research (CIFOR), Cameroon	C71
<i>Potential impacts of an increasing frequency of intense cyclones on plant communities in the Australian Wet Tropics</i> , Helen Murphy , CSIRO Climate Adaptation Flagship, Australia	C72
<i>Climate change adaptation: amphibian physiological response, including immune function and chytrid intensity, along altitudinal and temporal gradients in South-east Queensland, Australia.</i> , Edward Narayan , Environmental Futures Centre, Griffith University, Australia	C73
<i>Adapting to change – exploring the response of the GBR coral reef fin fish fishery to a major environmental event</i> , Ann Penny , Fishing and Fisheries Research Centre, James Cook University, Australia	C74
<i>Development of climate change projections for southeast Asia and Pacific islands</i> , John McGregor , CSIRO/Centre for Australian Weather and Climate Research, Australia	C75

5.3 Climate extremes and disaster management (2 sessions)
Convened by Jean Palutikof (NCCARF), John Handmer (RMIT) Reid Basher (UN International Strategy for Disaster Reduction)

Oral presentations - Session 1: Day 3 (11:00am-12:30pm) The disaster-adaptation interface
<i>Livelihoods, vulnerability and disasters</i> , Joshua Whittaker , RMIT University, Australia
<i>Does 'drought' exist anymore in Australia? The challenge of adapting to a normalised climate extreme</i> , Lauren Rickards , University of Melbourne, Australia

<i>Adapting to climate change: development of an integrated decision support tool for disaster and evacuation planning in regional areas, Michael Taylor, University of South Australia, Australia</i>
<i>Climate Change Adaptation and Disaster Risks Reduction - A Continuum: Philippine Case, Rosa Perez, Manila Observatory, Philippines</i>
<i>Linking Disaster Risk Reduction and Climate Change Adaptation: Best practices of the Red Cross societies in delivering its assistance to support the flood prone areas in Indonesia, Febi Dwirahmadi, International Federation of Red Cross Red Crescent Societies (IFRC), Indonesia</i>
<i>The Role of Disaster Relief in Pacific Island Countries: A Cause of Increasing Vulnerability?, John Campbell, Department of Geography, Tourism and Environmental Planning, University of Waikato, New Zealand</i>

Oral presentations - Session 2: Day 3 (2:00pm-3:30pm) Changing extremes and adaptation
<i>Developing a typology of adaptive learning strategies within coastal institutions affected by extreme events related to climate change, Craig Stephenson, Sustainability Research Centre, University of the Sunshine Coast, Australia</i>
<i>Cyclone Tracy: A case study on adapting building regulations to minimise the impact of extreme wind events, Matthew Mason, Risk Frontiers, Australia</i>
<i>Institutional Factors in Climate Change Adaptation: The Example of Flood Risk Management in Cape Town's Informal Settlements, South Africa, Felix Olorunfemi, Nigerian Institute of Social and Economic Research, Nigeria</i>
<i>Vulnerability of and adaptation in energy systems to climate change and extreme events, Ferenc Toth, IAEA, Austria</i>
<i>Adaptive Capacity of a Flood Vulnerable Community in Rural Bangladesh, Monirul Mirza, Environment Canada, Canada</i>
<i>Linking institutional and agricultural adaptation to extreme dry conditions in the Canadian Prairies: The case of the South Saskatchewan River Basin, Monica Hadarits, Canadian Plains Research Center, University of Regina, Canada</i>

Poster presentations – Day 2 (7:30am-8:30am)	Ref #
<i>Early Warning and Emergency Telecommunications Plan for Chittagong, Bangladesh, Iftekhar Ahmed, RMIT University, Australia</i>	B54
<i>Adaptation in the fires management sector, what role for bureaucratic networks and institutions? Karyn Bosomworth, Royal Melbourne Institute of Technology, Australia</i>	B55
<i>Flood Risk in Australia: A Review, Pamela Box, Macquarie University, Australia</i>	B56
<i>Critical review of resilience definitions in theory and practice: towards measurable definitions of resilience to disasters and climate change impacts, Riyanti Djalante, Macquarie University, Australia</i>	B57
<i>Linking Disaster Risk Reduction and Climate Change Adaptation in Indonesia, Riyanti Djalante, Macquarie University, Australia</i>	B58
<i>Community adaptation to heatwave: equitable policy responses to extreme weather in Victoria, Australia, Jess Fritze, Victorian Council of Social Service, Australia</i>	B59
<i>The Adaptive Capacity of urban coastal cities Vulnerable to Climate Change impacts: A case study of Social Networks from the 2008 disaster flood event in Mackay, Queensland, Australia, David King, James Cook University, Australia</i>	B60
<i>From Disaster Management to Disaster Resilience: An Agenda for Change, Gary Mahon, Department of Community Safety, Queensland, Australia</i>	B61
<i>Proving the Adaptation Pudding: Prioritising Local Government Climate Change Investments, Supriya Mathew, Macquarie University, Australia</i>	B62
<i>Characterising tropical cyclone seasons and understanding past variations in cyclone activity, Kendal McGuffie, University of Technology Sydney, Australia</i>	B63
<i>Climate Adaptation within Risk- and Vulnerability Analyses in Swedish Municipalities, Karin Mossberg Sonnek, FOI, Sweden</i>	B64
<i>Transboundary Cooperation in the context of the Murray-Darling Basin, Jane Mullett, RMIT University, Australia</i>	B65
<i>Exposure of Settlements and Infrastructure for Climate Change Adaptation Research and Decision Making, Krishna Nadimpalli, Geoscience Australia, Australia</i>	B66
<i>Empowering communities to adapt fire management practices locally in a changing change, Waminda Parker, Hotspots Fire Project (Nature Conservation Council of NSW), Australia</i>	B67
<i>Opportunities for an Ecosystem-based Disaster Risk Reduction Framework: Lessons from a Doubly</i>	B68

<i>Exposed Coastal Social-ecological System in Orissa, India</i> , Jyotiraj Patra , Center for the Environment and Public Policy (CEPP), India	
<i>The Influence of Model Skill on Regional Projections of Extreme Temperatures over Australia</i> , Sarah Perkins , CSIRO Marine and Atmospheric Research, Australia	B69
<i>Estimating Design Floods For Gauged Urban Catchments Under Climate Change Conditions</i> , P Rahman , University of New South Wales, Australia	B70
<i>A Micro-Foundation of Direct and Indirect Damage of Extreme Weather</i> , J. Micha Steinhäuser , University of Oldenburg, Germany (Presented by Klaus Eisenack)	B71
<i>Long-term persistence in future climate simulations: An investigation from a water resources management point of view</i> , M Sugiyanto , University of New South Wales, Australia	B72
<i>The Adaptive Capacity of urban coastal cities Vulnerable to Climate Change impacts: A case study of Social Networks from the 2008 disaster flood event in Mackay, Queensland, Australia</i> , Melanie Thomas , James Cook University, Australia	B73
<i>Enhancing Resilience to Coastal Hazards in Asia-Pacific: The Role of Early Warning Systems in linking Disaster Risk Reduction and Climate Change Adaptation</i> , Natasha Udu-Gama , Macquarie University, Australia	B74
<i>Reliability model for adaptation strategies for housing in cyclonic regions</i> , Chi-Hsiang Wang , CSIRO Sustainable Ecosystems, Australia	B75
<i>Using Value-at-Risk (VaR) to assess natural impacts on coastal Infrastructure under climate change scenarios</i> , Kwok Yum , CSIRO Sustainable Ecosystems, Australia	B76

Thread 6 – Human welfare and adaptation

6.1 Adaptation and the community (2 sessions)

Convened by Coleen Vogel (University of Witwatersrand), Lisa Schipper (Stockholm Environment Institute)

Oral presentations – Session 1: Day 1 (2:00pm-3:30pm)
<i>Session A: Theory and practice in community adaptation</i>
Full presentations
<i>Guiding principles for good practice in adaptation to climate change – Results of a European survey with 250 adaptation experts</i> , Torsten Grothmann , Potsdam Institute for Climate Impact Research, Germany
<i>Impacts of climate change on coastal recreation and public safety</i> , Norman Farmer , Surf Life Saving Australia, Australia
<i>Adaptation to climate change: a longitudinal media study of an Australian rural community</i> , Yasmin Van Kasteren , CSIRO, Australia
<i>Processes of adaptation – lessons learned from three case studies of community-based adaptation in Limpopo province, South Africa</i> , Florence Crick , Griffith University, Australia
<i>Adaptation Challenges to Climate Change Disasters in the Karamoja Cluster (Cattle Corridor) in Uganda</i> , Nanteza Jamiat , Makerere University, Uganda
Panel: 3 minute presentations
<i>Policy processes, institutional systems, and adaptation</i> , Stephen Dovers , Fenner School, Australian National University, Australia
<i>A conceptual framework for understanding adaptive capacity to climate change</i> , Alexandre Magnan , IDDRI - Institute for Sustainable Development and International Relations, France
<i>Using science to articulate an uncertain future for strategic climate change decision-making</i> , Susan Sweeney , Australia
<i>The Sustainable Livelihoods Approach: a useful conceptual framework for participatory community-driven processes for the identification of climate change impacts and community adaptation strategies</i> , Julian Prior , University of New England, Australia
<i>How to enable the public to participate more effectively in adaptation policy and practice</i> , Paul Burton , Griffith University, Australia

<i>Planning for climate change in New South Wales: do planning laws and climate change litigation hinder or help?</i> , Nicole Rogers , Southern Cross University, Australia
<i>Adaptation Decision Making in New Orleans: Wetland Assimilation Feasibility Planning</i> , Sarah Mack , Tierra Resources LLC, United States
Oral presentations – Session 2: Day 3 (11:00am-12:30pm)
<i>Session B: Case studies of community adaptation</i>
Full presentations
<i>Adaptation Strategies of Coffee Producers in Coatepec, Veracruz, Mexico to Climate Variability and Change</i> , Cecilia Conde , Centro de Ciencias de la Atmósfera, UNAM, Mexico
<i>Vulnerability and adaptive capacity to climate change of the guagua community in central Luzon, Philippines</i> , Rogelio Cosio , Pampanga Agricultural College, Philippines
<i>Rural livelihoods, vulnerability and adaptation to climate hazards: Reflections on a case study in Ningxia, Northwest China</i> , Declan Conway , University of East Anglia, United Kingdom
<i>Extreme events preparedness planning in indigenous communities in Canada</i> , Jeremy Pittman , Saskatchewan Watershed Authority, Canada
Panel: 3 minute presentations
<i>Climate Change and Indigenous Peoples: Community Adaptation and Sustainability of Biocultural Diversity in Eastern Himalaya, Arunachal Pradesh</i> , Dr. Ranjay K. Singh , Central Soil Salinity Research Institute, India
<i>'We were unable to speak': Exploring the role of grassroots capacity building in vulnerable communities in Nepal and Bangladesh for adaptation to climate change</i> , Philip Ireland , Macquarie University, Australia
<i>The Louisiana United Houma Nation Case Study of Native American Adaptation and Mitigation</i> , Douglas Meffert , Tulane University; CBR, United States
<i>Adaptive Pathways for the Future: Indigenous Peoples, Traditional Knowledge and Climate Change</i> , Amejali Ramos Castillo , United Nations University - Traditional Knowledge Initiative, Australia (Presented by Kirsty Galloway-McLean)
<i>The forgotten islands: climate change in the Torres Strait</i> , Donna Green , UNSW, Australia
<i>Summary of a presentation of the work of HOPE in the area of community education on adaptation/mitigation to anthropogenic climate change</i> , Frank Ondrus , Householder's Options to Protect the Environment Inc, Australia

Poster presentations – Day 2 (5:45pm-7:00pm)	Ref #
<i>Resilience and Water Security in Two Australian Inland Towns, Kalgoorlie and Broken Hill</i> , Helen Allison , Murdoch University, Australia	C76
<i>Resilience, Vulnerability and Adaptive Capacity of an Inland Rural Town Prone to Flooding: A Climate Change Adaptation Case Study of Charleville, Queensland, Australia</i> , Armando Apan , Australian Centre for Sustainable Catchments, University of Southern Queensland, Australia (Presented by Diane Keogh)	C77
<i>Adaptation to climate change in communities affected by tropical glacier retreat in Bolivia</i> , Juan Carlos Alurralde Tejada , Agua Sustentable, Bolivia	C78
<i>Climate Change Adaptation: Sharing Experience of Coastal Bangladesh</i> , Mehdi Azam , Institute of Forest and Environmental Policy, Germany (Presented by Tapan Sarkar)	C79
<i>Eyre Peninsula Climate Change Vulnerability Assessment</i> , Jacqueline Balston , Jacqueline Balston & Associates, Australia	C80
<i>Agricultural Responses and Adaptations to Emerging Climate Risks and Opportunities in Florida and Georgia</i> , Wendy-Lin Bartels , University of Florida, United States	C81
<i>Climate Proofing Bribie and Coochiemudlo Islands, South East Qld: Moving beyond the 'case study'</i> , Susie Chapman , SEQ Catchments Ltd, Australia	C82
<i>Adaptive networking to address food, transport and energy sustainability in a rural Australian community</i> , Uta Dietrich , North Coast Area Health Service, Australia (Presented by Anne Kia and Kirsty Howden)	C83
<i>Building Climate Change Resilience and Adaptive Capacity in Australia's Community Sector Using Social Media and Technology Innovation</i> , Marcus Foth , Queensland University of Technology, Australia	C84
<i>Informing the climate change adaptation challenge</i> , Steve Hilly , Australian Bureau of Statistics, Australia	C85
<i>Vulnerability assessment to Sea Level Rise- Arriving at a systems perspective through the Integration of quantitative and qualitative approaches</i> , Vijai Joseph , University of New South Wales, Australian Defence Force Academy, Australia	C86

<i>Adaptation and Limiting Factors: Issues and Perspectives from Grass Root Level in Tungabhadra Basin</i> , Lenin Babu Kamepalli , Institute for Social and Economic Change, India	C87
<i>Assessing the impacts of climate variability and change on community projects; approach for local adaptation strategies</i> , Pamela Levira , University of the Sunshine Coast, Australia	C88
<i>Adaptation options for mining communities</i> , Barton Loechel , CSIRO, Australia	C89
<i>The drying of Lake Boga – what it tells us about community responses to climate change</i> , Fiona McKenzie , Department of Planning and Community Development Victoria, Australia	C90
<i>Adaptation Measures in Zapata face to climate change</i> , Barbaro Moya , Meteorological Center of Matanzas, Cuba	C91
<i>Bayesian Networks as a novel tool for identifying barriers to community-based adaptive capacity</i> , Russell Richards , Sustainability Research Centre, University of the Sunshine Coast, Australia	C92
<i>Socio-economic trends and implications for community based adaptive capacity</i> , Anne Roiko , University of the Sunshine Coast, Sustainability Research Centre, Australia	C93
<i>Climate Proofing the UNESCO-MAB Noosa Biosphere Reserve</i> , Neil Tindale , University of the Sunshine Coast, Australia	C94
<i>An Environmental Regulator Adapting To Climate Change - Journey so far for EPA Victoria</i> , Barry Warwick , EPA Victoria, Australia	C95

6.2 Human security, social and equity issues

Convened by Neil Adger (University of East Anglia), Karen O'Brien (University of Oslo)

Oral presentations – Day 2 (11:00am-12:30pm)	
<i>Adaptation and Development: Whose Goals and Priorities Count?</i> Thomas Heyd , University of Victoria, Canada (Presented by Johanna Mustelin)	
<i>What people care about: focusing effort on highly effective adaptations</i> , Timothy Lynam , CSIRO, Australia	
<i>Migration doesn't have to be a failure of adaptation. An escape from environmental determinism</i> , Francois Gemenne , Sciences Po Paris - Institute for Sustainable Development and International Relations (IDDRI), France	
<i>Understanding social resilience to climate variability in primary enterprises and industries</i> , Nadine Marshall , CSIRO, Australia	
<i>Small in a small island state: implications of climate change adaptation for human security in the Solomon Islands</i> , Thomas Birk , Department of Geography and Geology, University of Copenhagen, Denmark	
<i>Will diversity assist adaptability? A case study contrasting diverse and specialized fishing sectors in the Queensland Inshore Fishery, Australia</i> , Renae Tobin , Fishing and Fisheries Research Centre, Australia	
<i>The absolute homeless and increasing climate variability: insights from Waterloo Region, Canada</i> , Johanna Wandel , University of Waterloo, Canada	

Poster presentations – Day 2 (7:30am-8:30am)	
<i>Assessing the Destination Hubs: the Relocation Suitability Index</i> , Anamaria Bukvic , Virginia Tech, United States	B77
<i>The role of place attachment in understanding and managing community adaptation to climate change</i> , Patrick Devine-Wright , University of Exeter, United Kingdom	B78
<i>"Ground-truthing" adaptation research: a collective reflection on contextual adaptation issues</i> , Carolina Roman , Monash University, Australia	B79
<i>Securing the city in a climate-constrained future</i> , Wendy Steele , Griffith University, Australia	B80
<i>Key dimensions in Indigenous Australian adaptation to global change</i> , Siri Veland , Macquarie University, Australia	B81

6.3 Engineering and technology solutions for adaptation

Convened by Ron Cox (Settlements and Infrastructure Adaptation Research Network) Xiaoming Wang (CSIRO)

Oral presentations – Day 2 (2:00-3:30pm)	
<i>Key barriers and potential solutions for developing climate change adaptation strategies for transport infrastructure</i> ,	

Adam Davis , Manindis Roberts, Australia
<i>Why are Utilities Reluctant to Adapt to Climate Change? - A Survey in the German Energy and Transportation Sectors</i> , Rebecca Stecker , University of Oldenburg, Department of Economics and Statistics, Germany (Presented by Klaus Eisenack)
<i>Water Pipe Failure Predictions under Different Climate Change Scenarios</i> , Fanny Boulaire , CSIRO, Australia (Presented by Scott Gould)
<i>Framework Models for Adaptation Strategies for Buildings</i> , Stephanie Wake , Australian Building Codes Board, Australia
<i>Deterioration of Concrete Structures under Changing Climate in Australian Coastal Cities</i> , Xiaoming Wang , CSIRO Climate Adaptation Flagship and CSIRO Sustainable Ecosystems, Australia
<i>Spatial Information Technologies for Climate Change Impact on Ecosystem: Detecting and Mapping Invasive Weeds in the Rio Grande River System, South Texas</i> , Shobha Sriharan , Virginia State

Poster presentations – Day 2 (7:30am-8:30am)	Ref #
<i>Using degradable polymer film to mitigate the impacts of climate variability and change on agricultural production</i> , Shaun Lisson , CSIRO, Australia	B82
<i>Climate Change Impact and Adaptation on Concrete Infrastructure Deterioration</i> , Mark Stewart , University of Newcastle, Australia	B83
<i>Regional Assessment of Coastal Inundation in Southeast Queensland under Changing Climate</i> , Xiaoming Wang , CSIRO Climate Adaptation Flagship and CSIRO Sustainable Ecosystems, Australia	B84
<i>Merging ‘top-down’ and ‘bottom-up’ approaches to assessment: A case study of climatic risks to domestic water harvesting systems using the SimCLIM modelling system</i> , Richard Warrick , University of the Sunshine Coast, Australia	B85
<i>IC Tag Sensing Technology Used for Climate-Change Adaptation Strategies</i> , Kazuya Yasuhara , Ibaraki University, Japan	B86

6.4 Public health adaptation to climate variability and change **Convened by Tony McMichael (ANU), Kris Ebi (IPCC)**

Oral presentations – Day 3 (2:00pm-3:30pm)
<i>Adaptation to extreme heat in Australian cities</i> , Matthew Beaty , CSIRO Climate Adaptation National Research Flagship, Australia
<i>Victorian Adaptation Responses to Climate Change and Human Health</i> , Julie Hoy , Victorian Department of Health, Australia
<i>Climate change and extreme weather events: Adaptation to protect the health of our protection workforce</i> , Liz Hanna , NCEPH Australian National University, Australia
<i>Climate Change Environmental Health Indicators: devising a tool to measure and monitor human health vulnerability and the effectiveness of interventions for climate variability and change</i> , Tammy Hambling , Institute of Environmental Science and Research, New Zealand
<i>The value of improved weather forecasts and socioeconomic information for preventing meningitis outbreaks in sub-Saharan Africa--A decision analytic tool to allocate meningitis vaccine in the face of uncertainty</i> , Jennie Rice , Pacific Northwest National Laboratory, United States
<i>Hop, skip and...: Moving beyond the analytical drivers of public health related climate change adaptation to explore the impact of knowledge, culture and risk perception</i> , Ursula King , Australian National University, Australia
<i>Climate change and human health in the Northern Territory: The road to adaptation</i> , James Smith , NT Department of Health and Families, Australia

Poster presentations – Day 3 (7:30am-8:30am)	Ref #
<i>A PhD Thesis Proposal: Statistical modelling of malaria incidence cases in Ghana</i> , Simon Appiah , School of Engineering, Edith Cowan University, Australia	D56
<i>Identifying key health adaptation opportunities in greater western Sydney</i> , Hilary Bambrick , School of Medicine, University of Western Sydney, Australia	D57
<i>Resilience and vulnerability among older Australians: Adaptive responses to heat</i> , Hilary Bambrick , School of Medicine, University of Western Sydney Australia	D58
<i>Impact of climate change and socio-environmental factors on dengue transmission in the Asia-pacific region</i> , Shahera Banu , School of Public Health, QUT, Australia	D59

<i>Climate and child health in rural areas of low and middle income countries: a review of the epidemiological evidence</i> , Angela Baschieri , Ishtm, United Kingdom	D60
<i>Mosquitoes and Climate Change in Australasia</i> , Nigel Beebe , University of Queensland & CSIRO Entomology, Australia	D61
<i>The best heat wave index for local climate adaptation: associations between measures of temperature and mortality in Victoria, Australia, 1990-2000</i> , Charmian Bennett , The Australian National University, Australia	D62
<i>Heat Stress, Urban Health and Labour Productivity: Adaptation Strategy for a megacity in India</i> , Anwasha Chakrabarti , Global Change Programme-Jadavpur University, India	D63
<i>The association between meteorological factors and hospital visits of allergic patients with sensitization to tree pollen</i> , Si Heon Kim , Department of Preventive Medicine and Public Health, Ajou University, South Korea	D64
<i>Assessment of constraints and barriers to public health adaptation to climate change</i> , Cunrui Huang , School of Public Health & Institute of Health and Biomedical Innovation, Queensland University of Technology, Australia	D65
<i>The role of parks and nature in human health during a time of climate change</i> , Peter Livitsanis , Parks Victoria, Australia	D66
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