



CONFERENCE PROGRAMME: RESEARCHER DAYS

We aim to:

1. Share the successes of Phase 1 of the Deep South Challenge
2. Learn from Phase 1 and where our science has resulted in real-world change
3. Gear up for Phase 2, including by enhancing interaction & integration between researchers

Monday 6 May 2019

8.30	Registration and Arrival Tea & Coffee	
9.00	Mihimihi Opening remarks	Otene Reweti Ngāti Whatua, Ngapuhi Roger France, Chair, Deep South Challenge
9.45	Changing with our Climate: the next phase of the Deep South Challenge	Mike Williams, Director, Deep South Challenge
10.30	Morning Tea	
11.00	Water in a Changing Climate	Chair: Sandy Morrison
	Applying Real Options Analysis to water storage in a changing climate (Standard)	Anita Wreford
	Risk to drinking water supply associated with as-yet unexperienced droughts (Short)	Wageed Kamish
	Sustainability of roof drinking water under a changing climate: challenge in isolated communities (Standard)	Hank Dunn, Christian Zammit
	Quantifying 21st century New Zealand droughts using NZ Drought Index (Short)	Abha Sood
	What will climate change mean for our stormwater and wastewater systems? (Standard)	Katherine Heays
	Meeting hydro-electricity needs for climate change assessment (Short)	Christian Zammit
	New Zealand's Coastal and Fluvial Flood Hazard Exposure (Standard)	Ryan Paulik



12.30 Lunch

13.30 1-minute poster introductions

See Abstract PDF for posters & presenters

14.00 Climate Change Impacts and Adaptation

Chair: Anita Wreford

Climate Adaptation Planning: Risks and Opportunities (Standard)

Lisa Ellis

Transition Action Planning for climate change impacts on Māori coastal ecosystems and economies (Standard)

Moira Poutama and Aroha Spinks

Signals and Triggers for Pathways Planning (Standard)

Judy Lawrence

Protecting the golden egg: Climate change adaptation in New Zealand's tourism sector (Standard)

Debashish Munshi

Engagement in the Deep South Challenge (Standard)

Wendy Saunders

15.15 Afternoon Tea

Poster Viewing

15.45 Building a Better Climate Model

Chair: Adrian McDonald

The coming of age of New Zealand's earth system modelling capability (Standard)

Jonny Williams

Grease Ice Herding in the New Zealand Earth System Model (Short)

Shona Mackie

The Southern Ocean in a Warming World and New Zealand's climate (Standard)

Melissa Bowen

Reducing the Southern Ocean short-wave radiation biases in the New Zealand Earth System Model (Short)

Olaf Morgenstern

ACRE Antarctica contributions to meteorological data rescue, analysis of climate models and improving the 20th Century Reanalysis (Standard)

Andrew Lorrey

16.50 Wrap-up and Close

18.30 Conference Dinner at Monsoon Poon, Lower Hobson Street



Tuesday 7 May 2019

9.00 Keynote: Janet Stephenson, Maria Ioannou and Eleanor Doig
Council-community engagement for climate adaptation – challenges and opportunities

9.50 Climate Change Impacts and Adaptation Chair: Wendy Saunders

Te Moana Tāpokopoko a Tāwhaki (Short)

Aimee Kaio, Michael Stevens
and Sandy Morrison

Sustainable water and land resource management
and use in Omaio (Standard)

Chris Insley

Liability for sea-level rise adaptation measures
(Short)

Catherine Iorns

‘Making things better than they are’: Community
engagement with those more susceptible to harm
(Standard)

Sophie Bond

‘Just having conversations’: Uncertainty, connection
and community engagement (Short)

Gradon Diprose

Climate Change Impacts on Primary Production
(Standard)

Troy Baisden

11.00 Morning Tea Poster Viewing

11.25 A note about the afternoon activity

Waverley Jones

11.30 Building a Better Climate Model Chair: Olaf Morgenstern

Machine learning to create filled total column ozone
data sets (Short)

Greg Bodeker

Targeted Observations of Process-Informed
Modelling of Antarctic Sea Ice (Standard)

Patricia Langhorne

Snow, ice and glaciers in our changing climate
(Short)

Brian Anderson

Simulating aerosols over the Southern Ocean in the
New Zealand Earth System Model (Standard)

Laura Revell

Sea ice response to ice shelf freshwater fluxes in an
Earth System Model (Short)

Inga Smith

Connections in Sea Ice between the Deep South
Challenge and the Antarctic Science Platform (Short)

Natalie Robinson

Vision Mātauranga Hui
(12pm - 1.30pm)



12.30 Lunch

13.30 Activity | Mind the gaps: Capacity building & collaboration within the Challenge

15.30 Afternoon Tea

Poster Viewing

16.00 Economic Implications of Climate Change

Chair: Mike Williams

Economic impacts of Flood Schemes and Local Flood Management (Short)

Patrick Walsh

Estimating financial costs of climate change in New Zealand (Standard)

Suzanne Rosier

Climate resilient Māori land investment decisions to enhance prosperity (Short)

Shaun Awatere
and Tui Warmenhoven

Extreme Weather Events: Future Liabilities of the Public Insurer (the EQC) (Short)

Jacob Pastor

16.45 Wrap-up and close