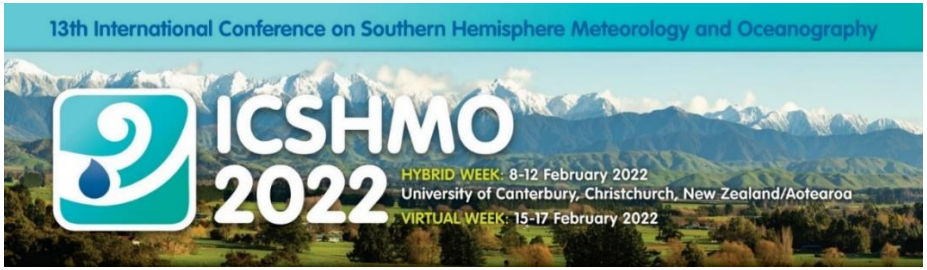

ICSHMO 2022 Conference Programme (v.13 Dec)

All times are in New Zealand time zone (UTC +13)

Hybrid Week 8-12 February 2022, University of Canterbury, Christchurch, NZ

Tuesday 8 February

	Virtual Workshops				In-Person Workshops	
10:00am				**Virtual Workshop 5** **Python for Atmosphere and Ocean Science** Led by: Dr Damien Irving (CSIRO)	**In Person Workshop 6** **Understanding the South Pacific Convergence Zone: Modern and Past Variability and Teleconnections to the Extra-tropical Southern Hemisphere** Led by: Kyle Clem (Victoria University of Wellington)	**In Person Workshop 8** **Python for Atmosphere and Ocean Science** Led by: Dr Alexander Pletzer (NIWA)
10:30am	**Virtual Workshop 1** **How to use weather radar data** Led by: Valentin Louf, Dr Joshua Soderholm (Bureau of Meteorology)	**Virtual Workshop 2** **Climate in the Cloud: Web-enabled cloud-computing educational resources for climate, atmosphere, and ocean science** Led by: Shane Keating (UNSW Sydney)	**Virtual Workshop 3** **Effective climate communication: from stakeholders to stadiums** Led by: Tahnee Burgess, Ana Ross (Monash Climate Change Communication Research Hub)			
12:00pm	Lunch Break					
1:00pm	**Virtual Workshop 1** **Continued**	**Virtual Workshop 2** **Continued**	**Virtual Workshop 3** **Continued**	**Virtual Workshop 5** **Continued**	**In Person Workshop 7 Tips and tricks on writing and submitting papers** Led by: Dr Laura Revell, Jonny Williams (NIWA)	**Virtual Workshop 8** **Continued**
2:30pm	Tea Break					
3:00pm - 5:00pm	**Virtual Workshop 4** **Assessing the Climate Science Training needs of the Global South** Led by: World Climate Research Program (WCRP) Academy					
5:45pm	**Informal Meet & Greet @ University of Canterbury**					

Wednesday 9 February				
8:30am	**Mihi Whakatau & Opening Ceremony** with Minister & UC representative			
9:00am	**Keynote: Dr Helen Cleugh (World Climate Research Programme/CSIRO)** - The World Climate Research Programme – Our Climate Future **Invited Speaker: Pat Langhorne (University of Otago) -** Antarctic Sea ice – a fragile interface at the mercy of the ocean and atmosphere			
10:00am	Morning tea			
Session	**Antarctic sea ice and its climate interactions 1**	**Weather radar applications 1**	**Atmospheric greenhouse gas measurements and modelling to support emission reductions at urban, national, and global scale 1**	**Physical and Biological Connectivity in Southern Hemisphere Oceans and Seas 1**
10:30am	**Ryan Fogt** - A regime shift in seasonal total Antarctic Sea ice extent in the 20th century	**Valentin Louf** - OceanPOL: a shipborne C-Band dual-polarisation research radar navigating the Southern Hemisphere	**Kevin Trenberth** - Deciphering carbon emissions and climate change	**Erik Behrens** - The impact of sea-ice drift and ocean circulation on dispersal of toothfish eggs and juveniles in the Ross Gyre and Amundsen Sea
		Joshua Soderholm - Australian Unified Radar Archive (AURA)	**David Noone** - Co-transport and complementary sources of water vapor, methane and isotopologues in the Southern Hemisphere	**Alice Della Penna** - The impact of a Southern Ocean cyclonic eddy on mesopelagic micronekton
	Marilyn Raphael - The Annual Cycle of Antarctic Sea ice extent: the influence of the Semi-Annual Oscillation on phase	**Jordan Brook** - A comparison of new and existing weather radar gridding techniques	**Yuanyuan Huang** - Increasing sensitivity of terrestrial nitrous oxide emissions to precipitation variations	**Erik Johnson** - Episodic Summer Chlorophyll-a Blooms Driven by Synoptic Winds at Aotearoa's Southeast Shelf Break Front
	Maren Elisabeth Richter - All in balance? Interannual variability of the fast ice in McMurdo Sound over 25 years and its connections to ocean, iceshelf and atmosphere	**Rob Warren** - Verification of storm attribute neighbourhood probabilities from a convection-permitting ensemble using single-polarization radar data	**Alexander Geddes** - Inverse Modelling of Aotearoa New Zealand's Agricultural Methane Emissions	**Aimee Van Der Reis** - Go with the flow: Population connectivity of the New Zealand deep sea lobster, Metanephrops challengeri
	Stephy Libera - Role of ocean processes on month-to-month predictability of Antarctic Sea Ice	**Alain Protat** - 3D wind retrieval error analysis using a 50m resolution supercell thunderstorm simulation	**Elizabeth Keller** - Modelling carbon fluxes from New Zealand’s pastoral agriculture	**Devi Veytia -** Sea ice habitat drivers of Antarctic krill recruitment
	Inga J. Smith - Impacts on Antarctic Sea ice area of increased ice shelf meltwater over centennial timescales in CCSM4	**Ulrike Romatschke** - 3D convectivity and convective/stratiform classification from radar reflectivity	**Xinyi (Lexie) Lu** - Isotopic characterisation of methane emission sources from Melbourne, Australia	**Robert Smith** - The Nature of Shelf-Open Ocean Exchange Around Southern New Zealand
	Q&A	Q&A	Q&A	Q&A
11:45am	Lunch			

Session	**Antarctic sea ice and its climate interactions 2**	**Weather radar applications 2**	**Atmospheric greenhouse gas measurements and modelling to support emission reductions at urban, national, and global scale 2**	**Physical and Biological Connectivity in Southern Hemisphere Oceans and Seas 2**
12:45pm	**Dongxia Yang** - Impact of tropical Indian SST on the sea ice trend over the western Ross Sea	**John Nicol** - Absolute calibration of weather radar using ground clutter and vertically profiling radar	**Lucas Domingues** - Preliminary Results from the Urban CarbonWatch Network	**Adele Morrison** - Remote control of West Antarctic Ocean temperature by Weddell Sea dense water formation
	Yuhang Pan - Trends and variability of clouds and radiation over the Southern Ocean and the link to Antarctic Sea ice	**Beatriz Reboredo** - Comparison of Tipping Bucket rain gauge, radar and satellite derived rainfall estimates in the Auckland region	**Timothy Hilton** - Hestia-AKL: An Inventory of Fossil Fuel Carbon Dioxide Emissions for Auckland, New Zealand	**Andrew Hurley** - Internal Tidal Bores as a Driver of Slope-Shelf Transport in the Otago Submarine Canyon System
	Pat Wongpan - Sub-Ice Platelet Layer Physics: Insights from a Mushy-Layer Sea Ice Model	**Brook Keats** - Nowcasting as a flood forecasting system: A catchment focused case study from Auckland, New Zealand	**Hayden Young** - Investigating the variability in the CO:CO2ff emission ratio at different site types and times of day in Auckland, New Zealand	**Hannah Dawson** - Pathways and timescales of connectivity along the Antarctic continental shelf
	Alexander Fraser - Altimetric observation of wave attenuation through the Antarctic marginal ice zone using ICESat-2	**John Crouch** - South Island West Coast orographic rainfall – a polarimetric radar view	**Beata Bukosa** - CarbonWatchNZ: Regional to National Scale Inverse Modelling of New Zealand's Carbon Balance	TBC
	Marcello Vichi - A statistical definition of the Antarctic marginal ice zone	**Sopia Lestari** - Characteristics of Jakarta Rain Rate Associated with The Madden-Julian Oscillation and Topography	**Peter Sperlich** - Where is the missing CO2? A regional multi-species approach to trace the fate of atmospheric CO2 in Fiordland National Park, New Zealand	TBC
	Yushi Morioka - Summertime sea ice prediction in the Weddell Sea improved by sea ice thickness initialization	TBC	TBC	TBC
	Q&A	Q&A	Q&A	Q&A
2:00pm	Mini break			
Session	**Modelling and prediction - general session 1**	**Modelling, prediction and projections of Southern Hemisphere climate variability and change 1**	**Weather and extreme events - general session 1**	**Extending our view of the past: historical climatology and data rescue in the Southern Hemisphere**
2:15pm	**Richard Gorman** - Forecasting wave interactions within the Marginal Ice Zone	**Peter Dobrohotoff** - Future Australian climate from the ACCESS-ESM1.5 large ensemble of CMIP6 scenario simulations	**Morgan Bennet** - Development of an Extreme Hydrometeorological Event Index	**Zak Baillie** - Pre-industrial changes in southern Australian weather and climate variability
	Hamish Lewis - Remote Influences of Large-Scale Meteorological Variables on Low Clouds	**Margot Bador** - Future seasonal changes in extreme precipitation scale with changes in the mean	**Rasool Porhemmat** - Hydrometeorology of large snowfall and snowmelt events in the Southern Alps of New Zealand	**Julie Jones** - An evaluation of the Southern Annular Mode in the Twentieth Century Reanalysis

	Rafael Santana - Data assimilation sensitivity experiments in the East Auckland Current region	**Ulrike Bende-michl** - National Hydrological projections for Australia: understanding risks to future water availability	**Jingxiang Shu** - Impact of Atmospheric Rivers on water resources and extreme rain - Dependence on ENSO and IOD Condition	**Bojana Rimbovska** - Seeing through the fog: surveying Aotearoa's weather in the nineteenth century
	Sebastien Delaux - Machine learning for coastal storm surge predictions in New Zealand	**Ghyslaine Boschat** - Can interannual to decadal variability help increase the accuracy of climate sensitivity estimates?	**Hamish Prince** - Following the breadcrumbs: tracking New Zealand atmospheric rivers back to their source	**Andrew Lorrey** - Southern Weather Discovery - recent lessons and future directions of citizen science for meteorological data rescue
	Gerald Meehl - The role of interannual ENSO events in decadal timescale transitions of the Interdecadal Pacific Oscillation (IPO)	**Zaved Khan** - Flood risk in Australia under future climate	**Fulong Lu** - Extreme heavy rain in the southwest of the South Island, 2-4 Feb 2020	**Howard Bridgman** - Extending our knowledge of past historical weather and climate in eastern NSW, Australia: The Wollong and Maryland data sets
	TBC	**Kimberley Reid** - Extreme Water Vapor Transport during the March 2021 Sydney Floods in the Context of Climate Projections	**Greg Bodeker** - Projecting changes in insured losses resulting from climate-driven changes in extreme precipitation events	**Rob Allan** - Point King and Breaksea Island: The Albany, Western Australian lighthouses
	Q&A	Q&A	Q&A	Q&A
3:30pm	Afternoon tea			
Session	**From ice shelves to the Antarctic Circumpolar Current – Processes, climate variability and climate change in the Ross Sea sector**	**Modelling, prediction and projections of Southern Hemisphere climate variability and change 2**	**Antarctic climate and cryosphere - general session 1**	**Oceanographic processes and observations - general session 1**
4:00pm	**Craig Stevens** - A Synthesis of Ocean Mixing Processes in the Ross Ice Shelf Cavity	**Roseanna McKay** - Tropical Indian Ocean's Influence on Southern Hemisphere Spring Atmospheric Circulation in a Seasonal Prediction Model	**Zhiang Xie** - Climate feedbacks controlling global ice sheet dynamics	**Denise Fernandez** - South Pacific Ocean dynamics redistribute ocean heat content and influence heat exchange with the atmosphere
	Melissa Bowen - Tides regulate Antarctic bottom water flow from the western Ross Sea	**Francois Engelbrecht** - Southern Hemisphere inter-annual predictability	**Tristan Rendfrey** - Connecting Antarctic Sea ice variability and mid-latitude precipitation	**Nicolas Bodnariuk** - On the modulation of shelf water exportation in the Southwestern Atlantic Ocean on interannual timescales: the role of oceanic Rossby waves and teleconnections
	Wilma Huneke - On the role of Dense Shelf Water overflows in the dynamics of the Antarctic Slope Current	**Alexandra Gossart** - A simplified version of a numerical atmospheric model to represent extreme wind events over the Ross Sea sector	**Jonathan Wille** - The atmospheric river impact on Antarctic Peninsula ice-shelf stability	**Yasha Hetzel** - Surface current observations from the IMOS HF radar offshore Ningaloo, Western Australia

	Alena Malyarenko - Balancing fluxes through WRF - MITgcm interface in the Scripps-KAUST model for the Ross Sea Region	**Jonny Williams** - Atmospheric impacts of local ocean grid refinement in a coupled earth system model}	**Deniz Bozkurt** - Temperature and precipitation projections for the Antarctic Peninsula over the next two decades: Contrasting global and regional climate model simulations	**Xiangrong Fang** - Characterization of submesoscale ocean dynamics on the Australian Northwest Shelf
	Graham Rickard - Physical and Biogeochemical Assessments of CMIP5 and CMIP6 Models for the New Zealand EEZ and the Ross Sea Region	**Martin Jucker** - Stratosphere-Troposphere Coupling During Antarctic Sudden Stratospheric Warmings	**Tom Bracegirdle** - Antarctic climate projections in CMIP6, new insights and progress since CMIP5	**Helen Macdonald** - The effect of riverine inputs to the Hauraki Gulf, New Zealand
	Angela Bahamondes Dominguez - Development of a 1-D model to understand the biogeochemistry of the Ross Sea	**Harun Rashid** - Quantifying the uncertainty of historical climate using the ACCESS-ESM1-5 large ensemble	**Olivia Truax** - Evidence of SAM and ENSO influence on last millennium Antarctic climate from paleoclimate data assimilation	**Mireya Montaño** - Combined influence of the oceanic mesoscale and local winds on the coastal circulation of the Bay of Plenty, New Zealand
	Rodrigo Gomez Fell - Dynamics and mechanical integrity of a land-fast sea ice stabilized ice tongue in Western Ross Sea prior to break-off	**Yusuf Bhatti** - Influences of Antarctic ozone depletion on Southern Ocean aerosols	**Alex Aves** - Microplastics in Antarctic snow	**Charine Collins** - The influence of large-scale and coastal circulation on freshwater plumes in Hawke Bay, New Zealand
	TBC	Q&A	TBC	**Francois Thoral** - More or Less Light for Kelp Forests? Satellite-Derived National Trends of Benthic Light and Macroalgal Implications
	Q&A		Q&A	Q&A
5:45pm	**Poster & Networking Reception**			

Thursday 10 February	
8:30am	**Keynote: Lyn Carter (University of Otago)** - Mātauranga Māori and climate change
9:00am	**Invited speaker: James Renwick (Victoria University of Wellington)** - The Past and Future of Antarctic Sea Ice **Invited Speaker: Jamie Schulmeister (University of Canterbury)** - Paleoclimate data for climate reconstruction and modelling: the good, the bad and the bizarre
10:00am	Morning tea

Session	**Year of Polar Prediction in the Southern Hemisphere (YOPP-SH) 1**	**Climate and impacts attribution in the Southern Hemisphere 1**	**Southern Ocean Cloud Processes and Climate 1**	**Physical and biogeochemical dynamics of the Southern Ocean and Antarctic margins 1**
10:30am	**David Bromwich** - An Overview of the Year of Polar Prediction in the Southern Hemisphere (YOPP-SH)	**Pandora Hope** - Attribution in the IPCC sixth assessment report	**Greg Mcfarquhar** - Lessons learned from Southern Ocean Cloud-Aerosol-Precipitation-Radiation Field Campaigns in 2017-2018: Needs for Future Observations	**Craig Stevens** - Polynya Preconditioning: Ocean Processes South of the Drygalski Ice Tongue, Western Ross Sea
	Victoria Heinrich - Who, How and Why? Exploring People's Weather Decision-Making and Information Use Needs in the Coldest, Windiest, and Most Isolated Places on Earth	**Dáithí Stone** - Progress in the detection and attribution of regional climate change	**Neel Desai -** Mixed Phase Cloud Microphysics Observations and Climate Model Simulations during MARCUS Campaign	**Christina Schmidt** - Interannual variability of Antarctic Bottom Water formation in a high-resolution ocean–sea-ice model
	Daniela Liggett - Lessons learnt about the use of environmental information and decision-making needs of Polar operators	**Suzanne Rosier** - Extreme weather event attribution in New Zealand: a step towards building a 'catalogue' of events for use in climate and impacts studies	**Estefania Montoya Duque** - Cloud microphysics and precipitation processes over the Southern Ocean under different synoptic conditions during CAPRICORN 2016 and 2018	**Laura Herraiz Borreguero** - Poleward shift of Circumpolar Deep Water threatens East Antarctic Ice Sheet
	Marie Laure Roussel - Observing and modeling snowfall at Dumont d'Urville station, Antarctica, during YOPP special observing campaign: a 3D approach	**Peter Gibson** - High-resolution CCAM model simulations over New Zealand for the detection and attribution of climate extremes	**Ruhi Humphries** - Southern Ocean latitudinal gradients of Cloud Condensation Nuclei	**Natalia Ribeiro** - Sixty years of warming on the continental shelf adjacent to the Shackleton Ice Shelf in East Antarctica
	Vito Vitale - Water Budget and precipitation in Antarctica: a possible contribution to YOPP-SH winter Special Observing Period (SOP)	**Andrew Lorrey** - Southern Alps glacier-climate responses and ice volume changes from 1978-2020	**Marc Mallet** - Reducing Southern Ocean shortwave radiation errors in the ERA5 reanalysis with machine learning and 25 years of surface observations	**Qing Yee Ellie Ong** - Investigation into Antarctic Slope Front Regimes Using an Idealised Isopycnal Model
	David Mikolajczyk - The Antarctic Meteorological Research and Data Center	**Jordis Tradowsky** - A progress update of the Extreme Weather Event Real-time Attribution Machine (EWERAM) project	**Son Truong** - A comparison of observed and simulated multi-layer mixed-phase clouds over the Southern Ocean	**Annie Foppert -** Deep Argo reveals bottom water properties and pathways in the Australian-Antarctic Basin
	Q&A	Q&A	Q&A	Q&A
11:45am	Lunch			
Session	**Year of Polar Prediction in the Southern Hemisphere (YOPP-SH) 2**	**Climate and impacts attribution in the Southern Hemisphere 2**	**Southern Ocean Cloud Processes and Climate 2**	**Physical and biogeochemical dynamics of the Southern Ocean and Antarctic margins 2**
12:45pm	**Marcello Vichi** - An observational network for synoptic observations in the Antarctic marginal ice zone	**Surendra Rauniyar** - Role of external forcing on observed and future changes in rainfall over sub-regions of Victoria, Australia	**Adrian Mcdonald -** The Deep South National Science Challenge: Cloud and Aerosol Measurements for Improved Climate Model Projections	**Julia Neme** - Variability of the Weddell Gyre in a global high-resolution numerical model

	Penny Rowe - Characterization of Atmospheric River and Foehn Events over the Antarctic Peninsula	**Leandro Baltasar Diaz** - Attribution of observed precipitation trends in Southern South America	**Alex Schuddeboom** - The Southern Ocean Radiative Bias, Cloud Compensating Errors and Equilibrium Climate Sensitivity in CMIP6 Models	**Andy Hogg** - Sensitivity of Antarctic shelf waters and sea ice to wind amplitude
	Simon Alexander - The seasonal cycle of precipitation and the link to atmospheric river events at Davis, Antarctica	**Luke Harrington** - Visualizing the 'hard-to-see' changes in local climate risks associated with a warmer future	**Sonya L. Fiddes** - Can we use machine learning to better understand model cloud radiative biases in the Southern Ocean?	**Amelie Meyer** - Standing meanders in the Southern Ocean: Characteristics and trends over the past 25 years
	Adrian Mcdonald - Measuring Antarctic Snowfall and it's Relationship to Synoptic Conditions: A cause of climate model bias?	**Sarah Perkins-Kirkpatrick** - attribution of the impacts of extreme weather events to anthropogenic climate change	**Andrew Gettelman** - The Impact of Cloud Microphysics and Ice Nucleation on S. Ocean Clouds	**Claire Yung** - Topographic hotspots of Southern Ocean eddy upwelling
	Tyler Barone - Ice and Mixed-Phase Cloud Microphysical and Macrophysical Properties in McMurdo, Antarctica: Linking in Situ, Remote Sensing Observations and Climate Simulations	TBC	**Matthew Woodhouse** - Improving the representation of the marine atmosphere sulfur cycle – 'new' oxidation pathways and their impact on aerosol	**Ryan Holmes** - Sensitivity of the meridional overturning circulation to spatially variable neutral diffusion in a coarse-resolution ocean model
	Stewart Allen - The OceanMAPS v4 sea-ice forecast demonstration project	TBC	**Vidya Varma** - Addressing the short-wave cloud radiation biases in a Global Atmosphere Model	**Arnaud Valcarcel** - Overturn-based estimation of mixing in the Southern Ocean
	Q&A	Q&A	Q&A	Q&A
2:00pm	Mini break			
Session	**Year of Polar Prediction in the Southern Hemisphere (YOPP-SH) 3**	**Atmospheric processes driving aperiodic warming and impacts on melt in Antarctica**	**Southern Ocean Cloud Processes and Climate 3**	**Physical and biogeochemical dynamics of the Southern Ocean and Antarctic margins 3**
2:15pm	**Ivana Cerovecki** - The effects of cloud biases on the predictability of Antarctic Sea ice edge on subseasonal time scales	**Kyle Clem** - Tropical forcing of extreme high temperature and surface melt on the Antarctic Peninsula	**Patric Seifert** - Aerosol-Cloud-Dynamics interactions over Punta Arenas, Chile (53°S, 71°W): A summary of three years of remote sensing and in-situ observations in the frame of DACAPO-PESO	**Jan Jaap Meijer** - Dynamics of a standing meander of the Subantarctic Front diagnosed from satellite altimetry and along-stream anomalies of temperature and salinity
	Ehlke Hepworth - Contrasting roles of Southern Ocean polar cyclones and Atmospheric Rivers in engendering extreme atmospheric anomalies over Antarctic sea-ice	**Yaowen Zheng** - Understanding surface melt in Antarctica and implication for future ice sheet evolution	**Martin Radenz** - Observations of heterogeneous ice formation at Punta Arenas and contrasts to the northern hemisphere mid-latitudes	**Thierry Penduff** - Interannual to multidecadal chaotic ocean variability: large-scale impacts in the Southern Ocean
	Greg Leonard - Assessing the impact of winter storms on the stability of a fast-ice cover through the application of a Modified Storm Index	**Tamara Pletzer** - Characterizing glacial meltwater runoff variability in the Ross Sea Region of Antarctica	**David Fuchs** - Midlatitude jet position and shift linked to atmospheric convective types	**Jakob Weis** - Phytoplankton community response to the deposition of wildfire aerosols

	TBC	**Marte Gé Hofsteenge** - The surface energy balance during warming events at Joyce glacier, McMurdo Dry Valleys, Antarctica	**Francisco Lang** - A New Climatology of Open and Closed Mesoscale Cellular Convection over the Southern Ocean derived from Himawari-8 Observations	**Tyler Rohr** - Grazing controls on carbon cycling in the Southern Ocean
	TBC	**Eva Bendix Nielsen** - Data driven approach for assessment of extreme foehn warming in McMurdo Dry Valleys, Antarctica	Q&A	**Guillaume Liniger** - Surface marine productivity variability in West Antarctic polynyas is not driven by melting ice shelves
	TBC	TBC		**Karin Kvale** - Southern Ocean circulation metrics predict global biogeochemical change with warming
	Q&A	Q&A		Q&A
3:30pm	Afternoon tea			
Session	**Science supporting the Paris agreement: Southern Hemisphere perspectives**	**Climate as a complex system - rapid change, regime shifts and irreversibility**	**Informing modern risk assessment and decision making with long climate reconstructions**	**Atmospheric processes and observations - general session 1**
4:00pm	**Steven Sherwood** - Probabilities of committed warming and the Paris targets	**Roger Jones** - Global climate as a complex system: heat engines, nonequilibrium steady states and regime change	**Tessa Vance** - What do palaeoclimate records tell us that the observed records don't? Implications for hydroclimatic risk assessment and decision making	**Tahlia Crabtree** - Mountain waves extending large horizontal distances from mountain ranges
	Andrew King - Transient and quasi-equilibrium climate states at different global warming levels	**James Ricketts** - "The Blob", Not Just Another Transient Phenomenon	**Danielle Verdon-Kidd** - Which regions of eastern Australia are experiencing more climate extremes? Looking for answers in the Australia and New Zealand Drought Atlas	**Yang Yang**- Non-orographic inertia-gravity waves over New Zealand's Southern Alps: a case study
	Dave Frame - Emissions metrics and Articles 2 & 4 of the Paris Agreement.	**Ivan Sudakov** - Climate-biosphere tipping points and the loss of biodiversity	**Salman Sharifazari** - 600-year drought reconstruction for Christmas Island from remote tree-rings	**Luis Ackermann** - Orographic Mechanisms and Microphysical Processes during Wintertime Precipitation over West Tasmania, Australia
	Jocelyn Turnbull - IG3IS: An Integrated Global Greenhouse Gas Information System	**Surendra Rauniyar** - Detecting step changes in Victoria's climate	**Jonathan Palmer** - Reconstruction of the Indian Ocean Dipole (IOD) back to 800 CE from tree rings	**Cameron McErlich** - A Combined Examination of Precipitation Occurrence and Cumulative Distribution Functions in Reanalysis, Observations and CMIP6 models
	Ying-ping Wang - Earth system models overestimate carbon-climate feedback	**Gen Tolhurst** - Regime shifts of observed precipitation intensity distributions from 1900 to 2020 in Victoria, Australia	**Micheline Campbell** - Reconstructing Australia's fire history from cave stalagmites	**Raghav Srinivasan** - Climate time series anomaly detection using convolutional neural networks

	Tilo Ziehn - Exploring Australia's future carbon sinks	**Neelesh Rampal** - Mapping weather anomalies and extremes to circulation regimes in Aotearoa New Zealand	**Benjamin Henley** - Coral reconstructions of regional sea surface temperatures place recent Coral Sea and Great Barrier Reef temperatures into a multi-century context	**Victoire Laurent** - The South Pacific Tropical Upper Tropospheric Trough: variability and impact on the French Polynesian climate
	Andrew Lenton - Asymmetry in the Response of the Carbon Cycle to Atmospheric Carbon Dioxide Removal	**Charlotte McBride** - Trends in Probabilities of Temperature Records in the Non-Stationary Climate of South Africa	**Pauline Treble** - Uptick in speleothem oxygen isotopes indicate decreased rainfall recharge to groundwater, southwest Western Australia	**Annika Seppala** - Does the coupling of the semiannual oscillation with the quasi-biennial oscillation provide predictability of Antarctic sudden stratospheric warmings?
	Blair Trewin - How do we know when global temperatures are crossing 1.5 °C?	**Roger Jones** - Defining fire climate (pyroclimate) regimes and detecting regime shifts	TBC	**Nariefa Abrahim** - Fully distributed surface energy and mass balance modelling of Brewster Glacier in the Southern Alps of New Zealand
	Q&A	Q&A	Q&A	Q&A
6:30pm	**Gala Dinner**			

Friday 11 February

8:30am	**Keynote: Florence Rabier (ECMWF) -** ECMWF: strategy, use of observations and current developments			
9:00am	**Invited Speaker: Jennifer Salmond (The University of Auckland) -** Air quality data for decision making: Are we measuring what counts? **Invited Speaker: Susan Solomon (Massachusetts Institute of Technology)** - Linking wildfires to stratospheric chemistry and dynamics			
10:00am	Morning tea			
Session	**Downscaling and regional modelling – CMIP6 model selection, CORDEX and regional applications 1**	**Meteorology and Climatology of Wildfires 1**	**New frontiers in Marine Heatwave Research 1**	**Urban Climate 1**
10:30am	**Jozef Syktus** - Dynamical downscaling of CMIP6 global models with variable resolution climate model in Australian region	**Marwan Katurji** - Sweep and ejection structures during shrub fires and implications for atmospheric turbulence interactions with the flaming zone	**Junde Li** - Variability and drivers of ocean temperature extremes in a warming Western Boundary Current	**Negin Nazarian** - Towards a living lab for enhanced air quality and thermal comfort: analyses of standard occupancy, weather extremes, and COVID-19 pandemic
	Acacia Pepler - Regionally downscaled projections of cyclones for southern Australia	**Jiawei Zhang** - Turbulent ember transport across the rural-urban interface for fire risk management	**Jules Kajtar** - Dynamics of the 2017/18 Tasman Sea marine heatwave	**Siena Brody-Heine** - Regional and Local Scale SO2 Dispersion Modeling of an Eruption Scenario in the Auckland Volcanic Field

	Jason Evans - Considering model independence in Regional Climate Model selection	**Ivan Kennedy** - Vortical entropic energy in anticyclones as a heat source for severe wildfire conditions from surface friction and evapotranspiration	**Colette Kerry** - Advection driving the onset of Marine Heatwaves in coastal waters revealed by Adjoint Sensitivity Analysis	**Dongqi Lin** - Fog dynamics and predictability using a coupled urban-atmosphere numerical model for Christchurch, New Zealand
	Giovanni Di Virgilio - Selecting CMIP6 GCMs for CORDEX dynamical downscaling: model performance, independence, and climate change signals	**Siena Brody-Heine** - Observed regional and local wind vector change across New Zealand's national network of fire-weather stations	**Afonso Gonçalves Neto** - Monitoring Marine Heatwaves in the South and Tropical Atlantic	**Jiachen Lu** - Implications of employing realistic geometry in large-eddy simulation for urban canopy parameterization
	Suzanne Rosier - Changing rainfall extremes in New Zealand: diagnosis using large regional model ensembles and non-stationary GEV model constructs	**Dejun Cai** - Location, frequency and intensity of cold fronts over southeast Australia and their role in Australia's 2019/2020 Black Summer fire disaster	**Neil Malan** - Non-uniform coastal warming trends in the East Australian Current System	**Charlotte Waudby** - Thunderstorms, hospital asthma presentations and emergency callouts during the grass pollen season in Victoria 2017-2019
	Limbert Fernando Torrez Rodriguez - Assessment of climate change impacts on precipitation and temperature over Subtropical Chile based on South America CORDEX-CORE regional simulations	**Malcolm King** - Extreme summertime dry cold fronts and associated weather in southern Australia	**Joao Marcos Azevedo Correia de Souza** - 2021 warm winter in New Zealand's oceans	**Lan Yao** - The Impacts of Urban High-rises under Different Wind Directions on the Airflow over Dense Built City
	Q&A	Q&A	Q&A	Q&A
11:45am	Lunch			
Session	**Downscaling and regional modelling – CMIP6 model selection, CORDEX and regional applications 2**	**Meteorology and Climatology of Wildfires 2**	**New frontiers in Marine Heatwave Research 2**	**Urban Climate 2**
12:45pm	**Justin Peter** - The impact of bias correction on the climate change signal	**Tim Kerr** - Tuning Fire Weather Information	**Alice Pietri** - Characterization and Evolution of Marine Heat Waves in the Humboldt System	**Dyah Lukita Sari** - Evaluation of Surface Energy Balance Changes from the WRF Urban Model in Jakarta Metropolitan Area
	Sam Dean - Will uncertainty see the extinction of the probabilistic climate projection?	**Andrew Marshall** - Subseasonal drivers of extreme fire weather in Australia during spring and summer	**Daneeja Mawren** - Marine heat waves and tropical cyclones - two devastating types of coastal hazard in South-eastern Africa	**Negin Nazarian** - Combining high-resolution land use data with crowdsourced air temperature to investigate intra-urban microclimate
	Chloe Mackallah - The Australian Climate Service (ACS) strategy for regional modelling and climate projections	**Grant Pearce** - Trends in New Zealand fire dangers from 1960-2020	**Alex Sen Gupta** - Exploring extreme Marine Heatwaves	**Sijie Liu** - From thermal neutrality to thermal pleasure: A better direction for urban climate engineering
	Marcus Thatcher - Experiment design when using a variable resolution global model for CORDEX simulations	**Nathanael Melia** - Aotearoa New Zealand's 21st Century Wildfire Climate	**Maxime Marin** - Local drivers of extreme upper ocean marine heatwaves assessed using a global ocean circulation model	**Marzie Naserikia** - Global Analyses of Urban Land Cover Impact on Surface Urban Heat across Different Climate Classes

	Phuong Loan Nguyen - Evaluation and future projection of daily precipitation in CORDEX-SEA regional climate models over Southeast Asia	**Ralph Trancoso** - Converting tropical forests to agriculture increases fire risk by fourfold	**Michael Eabry** - Understanding Marine Heatwave Depth Structures and Their Drivers	**Claudio Carrasco** - Urban climate model for Valparaiso, Chile. Adaptation of the urban climate model of the example area of Barcelona city
	Neelesh Rampal - High-resolution downscaling with interpretable deep learning: resolving precipitation extremes over New Zealand	TBC	**Shijian Hu Observed** - Strong subsurface marine heatwaves in the tropical western Pacific Ocean	TBC
	Q&A	Q&A	Q&A	Q&A
2:00pm	Mini break			
Session	**Downscaling and regional modelling – CMIP6 model selection, CORDEX and regional applications 3**	**Air quality and pollution**	**New frontiers in Marine Heatwave Research 3**	**Climate and climate change - general session 1**
2:15pm	**Nidhi Nishant** - Added Value of dynamical downscaling of ERA5 driven regional climate simulations over CORDEX Australia	**Jamie Halla** - Monitoring Air Quality in Auckland, New Zealand	**Nicole Jones** - Sub-surface observations of ocean heat content off Northwest Australia during 2020-2021	**Olaf Morgenstern** - The Southern Annular Mode in 6th Coupled Model Intercomparison Project models
	Tony Rafter - Precipitation extremes across temporal scales from an ensemble of near convection-permitting simulations – evaluation and projected change	**Hannah Marley** - A Quantitative Analysis of the Impact of Land-Sea Breezes and Boundary Layer Structure on the Formation of Brown Haze in Auckland, New Zealand	**Amandine Schaeffer**- Oceanic Circulation Drives the Deepest and Longest Marine Heatwaves in the East Australian Current System	**Josephine Brown** - Australian monsoon, SPCZ and ENSO variability in PMIP4 simulations of mid-Holocene climate
	Christopher Roach - Future Marine Climate Downscaling for the New Zealand Region	**Wendy Fan** -Do Sea breezes blow microplastics back onto land? Quantification of atmospheric microplastic pollution in a coastal New Zealand city	**Catherine Gregory** - Understanding Marine Heatwaves and their Drivers for Improved Prediction on a Sub-seasonal to Seasonal Timescale	**David Karoly** - Causes of some recent observed declines in Southern Hemisphere mid-latitude rainfall on land
	Stephen Stuart - Evaluation of reanalysis-driven regional climate models over New Zealand	**Hamesh Patel** - Personal exposure to ultrafine particles (UFP): the potential benefits of future low emission zones (LEZ) on pollution exposure in the commuter microenvironment	**Mads Thomsen** - Ecological impacts of marine heatwaves	**Natalie Burls** - The Cape Town "Day Zero" drought and Hadley cell expansion
	Abha Sood - A framework for regional climate impact guided ranking schemes for CMIPx climate model simulations	**Fabrice Lambert** - Past Atmospheric Particulate Matter Reconstruction based on Dendrochemistry	**Christopher Chapman** - Forecasting of Tasman Sea Marine Heat Waves Using Analogue Methods	**Pilar Barría** - Analyses of drought projections for the temperate southern Andean Lake region of Chile
	Rachael Isphording - Application of a Standardized Benchmarking Framework to Evaluate Simulated Precipitation in the CORDEX-Australasia Ensemble	TBC	**Claire Spillman** - Predicting marine heatwaves for marine management	**Michelle Reboita** - Main Teleconnection Patterns that Influence the South America Climate and a Tool for Their Monitoring
	Q&A	Q&A	Q&A	Q&A

3:30pm	Afternoon tea			
Session	**Modelling and prediction - general session 2**	**Science Communication, Education & Outreach**	**New frontiers in Marine Heatwave Research 4**	**Climate and climate change - general session 2**
4:00pm	**Christian Zammit** - Enhancing rainfall estimation to support hydrological modelling in New Zealand	**Elizabeth Viljoen** - Tropical cyclone Eloise: A South African case study to evaluate the new paradigm in communication of early warnings using the Impact-Based Severe Weather Warning Service	**Stuart Corney** - The connection between the toothfish fishery and intense winter warming on the Kerguelen Plateau	**Laura Revell** - Direct radiative effects of airborne microplastics
	Jono Conway - Deriving optimal multi-model ensemble snow simulations using in-situ meteorological and snowpack observations in the Southern Alps of New Zealand	**Olivia Warrick** - Enhancing community resilience to drought and prolonged wet periods in the Cook Islands: The Early Action Rainfall Watch	**Shinae Montie** - Global biogeographical trends and regional ecological legacies of coastal marine heatwaves	**Roger Davies** - Changes in cloud heights over the last two decades: a comparison between hemispheres
	Sijin Zhang - RainCast: a rapid update rainfall forecasting system for New Zealand	**Melissa Hart** - Where citizen science meets the built environment: the Schools Weather and Air Quality (SWAQ) network	**Felix Cook** - Marine heatwaves in shallow water ecosystems of New Zealand	**Chayn Sun** - Emerging Indigenous communities (EIC) and Social inequities in urban heat and greenspace: a nationwide investigation in Australia
	Matthew Walker - Producing synthetic weather from a generative adversarial network	**Efrat Eilam** - Taking a Disciplinary Perspective on Climate Change in Schools' Curricula	**Yuxin Wang** - Understanding the predictability of marine heatwaves off Western Australia using a linear inverse model	**Hunter Douglas** - Inequitable population-based emergence of unfamiliar climates projected by CMIP6 models and SSPs
	F. Jorge Bornemann Arquero - A data-driven approach to characterise systematic model errors	**Jasmine Chambers** - Ocean Decade Australia: A science communication and stakeholder engagement case study to take us from the Ocean we Have to the Ocean we Want	TBC	**José Veiga** - Impacts of deforestation on Amazon climate
	Andrew Sturman - Application of the WRF model to investigate suitability of different wine grape varieties in regions of complex terrain	**Ciaran Doolin** - Edward Kidson – Pioneer of Southern Hemisphere Meteorology	TBC	**Blair Trewin** - Sleepless in Seattle – global climate in 2021
	Ilze Pretorius - Invasive pests travel vast distances along atmospheric coherent structures	TBC	TBC	TBC
	Graeme Smart - A rolling log law for velocity profiles	TBC	TBC	TBC
	Q&A	Q&A	Q&A	Q&A

Saturday 12 February	
9:00am	**Saturday Morning Excursions:** International Antarctic Centre Walking Tour

Virtual Week 15-17 February 2022

Tuesday 15 February					
10:15am	**Invited Speaker: René Garreaud (Universidad de Chile) -** The central Chile Mega Drought: Is the future now?				
Session	**Drought combined**	**The Southern Ocean and Tropical Climate System: Variability, Change, and Linkage 1**	**Regional climate variability and change over the Southern Hemisphere extratropics 1**	**Climate and climate change - General Session 3**	**Oceanographic processes and observations - general session 2**
10:45am	**Guojian Wang** - Two-year consecutive concurrences of positive Indian Ocean Dipole and Central Pacific El Niño preconditioned the 2019/2020 Australian "black summer" bushfires	**John Fyfe** - Recent developments in the detection and attribution of changes in the Southern Ocean climate system	**Fernando Arizmendi** - Projections of extreme wind events in Uruguay: a weather regimes approach	**Camila Prudente** - Land use changes in La Plata Basin and impacts in river level	**Pallavi Govekar** - New IMOS Himawari-8 and Multi-sensor Sea Surface Temperature products
	Ailie Gallant - Changes in fronts and cyclones during seasonal-scale droughts		**Ghyslaine Boschat** - Impact of zonal and meridional atmospheric flow on climate extremes in the Southern Hemisphere	**Nick Earl** - Changes in rainfall runoff and hydro electricity production in Tasmania	**Douglas Vieira Da Silva** - Interactions of ITCZ Disturbances with Waters of Amazon Shelf: Drivers of Air-Sea Fluxes along a Large Riverine Outflow
	Miguel Lovino - Hotspots for flash drought occurrence in South America	**Xichen Li** - Antarctic and Southern Ocean Climate Changes and its Interaction with Lower Latitudes	**Chiara Holgate** - Linking Tasman Sea high-pressure systems and extreme rainfall in southeast Australia	**Abdullah al Fahad** - The Influence of Direct Radiative Forcing Versus Indirect Sea Surface Temperature Warming on Southern Hemisphere Subtropical Anticyclones Under Global Warming	**Madelaine Gamble Rosevear** - Mixing at the seabed: characterising the bottom mixing-layer in a stratified, tidal flow using large-eddy simulation
	Precious Mahlalela - Mechanisms associated with severe droughts in the Eastern Cape region, South Africa		**Ines Leyba** - Relationship between sea surface temperature variability in the South Atlantic and regional climate variability in southern South America	**David Ferreira** - Direct evidence for a 20th Century decline in Southern Ocean Sea ice	**William Edge** - Sediment transport by internal waves and estimation of unobserved parameters with uncertainty

	Tess Parker - The role of heavy rainfall in drought development and recovery from drought in Australia	**Matthew England** - Tropical to high-latitude climate teleconnections via planetary waves in the ocean and atmosphere	**Eun-pa Lim** - Why was Australia not wet in Spring 2020 despite La Niña?	**Peter May** - Seasonal, diurnal variability and trends of near surface temperature and humidity in the maritime continent	**Chris Whitwell** - The contribution of shoaling and breaking non-linear internal waves to ocean mixing on the Australian Northwest Shelf
	Diego Campos - Summertime cut-off lows in subtropical Chile: a look to the water vapor and precipitation		**Danielle Udy** - How does salty snowfall in Antarctica help us understand Australian rainfall processes?	**Cindy Liles** - Impacts of climate variability and change on the timing of budburst across Australian wine regions	**Peter Baines** - Massed strandings of whales and dolphins – effects of wind, waves, and tides
	Amanda Rehbein - Severe drought in central South America and its associated teleconnections: insights from modelling and observations	**Ariaan Purich** - Projected impacts of Antarctic meltwater anomalies over the 21st Century	**Radan Huth** - Regional climate variability and change over the Southern Hemisphere extratropics	**Phumudzo Charles Tharaga** - Climate change impacts on urban heat Islands over Bloemfontein in South Africa	TBC
	Marcia T.Zilli - Real-time tool to monitoring the occurrence of tropical-extratropical cloud band events over the Southern Hemisphere	**Didier Monselesan** - Tropical to extratropical linkages revealed by archetypal analysis applied to sea surface temperature	**Verónica Martin-Gomez** - Southern hemisphere circulation anomalies and impacts over subtropical South America due to different El Niño flavours	TBC	TBC
	Q&A	Q&A	Q&A	Q&A	Q&A
12:30pm	Lunch Break				

Session	**The Southern Ocean and Tropical Climate System: Variability, Change, and Linkage 2**	**Regional climate variability and change over the Southern Hemisphere extratropics 2**	**Climate and climate change - General Session 4**	**Modelling and prediction - general session 3**
1:00pm	**Wenju Cai** - Changing El Niño–Southern Oscillation in a warming climate	**Matt Patterson** - Tropical and subtropical forcing of future southern hemisphere stationary wave changes	**Michael Grose** - The IPCC Interactive Atlas: a useful tool for the Southern Hemisphere climate research and communications	**Willem Landman** - Attributes of predicted rainfall patterns over Southern Africa and Southeast South America associated with the El Niño–Southern Oscillation
	Shayne Mcgregor - Distinct off-equatorial zonal wind stress and oceanic responses for EP and CP type ENSO events	**James Risbey** - The identification of long-lived Southern Hemisphere flow events	**Davide Marchegiani** - How differences between CO2 and Solar forcing in a geoengineering framework influence the dynamical response in precipitation	**Laila Howar** - Cape Town Winter Rainfall Predictability
	Beatriz Peña-molino - Revisiting the seasonal cycle of the Timor Throughflow: circulation and transport	**Vanesa Pántano** - Extreme rainfall frequency driven by different remote forcings over South-eastern South America	**Peter Love** - A climatology of negatively tilted upper-tropospheric troughs and association with extreme events in southern Australia	**Erma Yulihastin** - Convective Cold Pool Associated with Offshore Propagation of Convection System over the East Coast of Southern Sumatra, Indonesia
	Michael Eabry - The impact of Indonesian Throughflow constrictions on eastern Pacific upwelling and water-mass transformation	**Camila Prudente** - Climate variability in the Paraguay Basin	**Wenhui** - **Zhao** A climatology of clouds over the Great Barrier Reef and the role of local forcing	**Mei Zhao** - Evaluation of the response of sub-seasonal to seasonal forecast models to imposed greenhouse gas anomalies, for use in attribution studies

	Ming Feng - Projected future changes of meridional heat transport in the Indian Ocean	**Tobias Sauter** - Revisiting extreme precipitation amounts over southern South America and implications for the Patagonian Icefields	TBC	**Vateanui Sansine** - Hybrid model for mean hourly solar irradiance prediction for micro-grid optimization
	Kewei Lyu - Projected Ocean warming constrained by the ocean observational record	TBC	TBC	TBC
	Q&A	Q&A	Q&A	Q&A
2:30pm	**Session Concludes**			

Wednesday 16 February				
10:15am	**Invited Speaker: Carolina Vera (CIMA/University of Buenos Aires -CONICET) -** Climate Knowledge Co-production for the Agriculture Sector in Argentina			
Session	**Weather and extreme events 2**	**Climate Change in Pacific Island Countries 1**	**Governance, policy and public engagement, AND Advances in the application of climate forecasts in industry**	**Tropical climate variability: dynamics, teleconnections, and impacts 1**
10:45am	**Chris Vagasky** - Wildfires, Volcanoes, Cyclones, oh my! Non-traditional uses of Lightning Data	**Zhi-Weng Chua** - Improved monitoring of climate extremes in the western Pacific using remote sensing data	**David Jones** - A new national approach to assist Australian's build resilience to climate hazards	**Yann Planton** - Evaluation of regional El Niño-Southern Oscillation teleconnections in CMIP6 models
	Haleh Nampak - Interacting effects of lightning, vegetation and soil moisture content on wildfire ignition risk in Tasmania	**Cyril Dutheil** - Fine-scale rainfall over New Caledonia under climate change	**Eugene Kavale** - Designing an effective dynamic adaptive pathways planning (DAPP) monitoring system for coastal hazard risk in New Zealand	
	Tony Bannister - Are convergence lines associated with high asthma presentation days? A case-control study in Melbourne, Australia	**Laxmikant Dhage** - Assessment of 21st century changing sea surface temperature, rainfall, and sea surface height patterns in the tropical Pacific Islands using CMIP6 greenhouse warming projections	**Bruce Buckley** - Climate Change & Extremes – Climate Data needs of New Zealand's Largest Insurer	**Ruby Lieber** - Investigating the relationship between ENSO and extremes in the 20th Century Reanalysis
	Wade De Kock - Large scale features linked to anomalously wet summers in the Southwestern Cape of South Africa	**Savin Chand** - Tropical cyclones in the Pacific and global warming: An overview	**Andrew Magee** - The Long-Range Tropical Cyclone Outlook for the Southwest Pacific (TCO-SP): Insights into the usefulness of a new extreme weather guidance tool	**Chiara Holgate** - Interacting climate modes impact east Australian rainfall moisture sources
	Vannia Aliaga Nestares - Behavior of ITCZ' second band near the coast during the 2017 coastal El Niño	**Michael Grose** - Historical warming and projections for global warming levels for Pacific nations	**Carly Tozer** - Challenges and learnings in the application of multi-year forecasts in hydropower operations	**Mandy Freund** - Australian rainfall and drought breaking conditions and its representation in ACCESS-S2

	Keitapu Maamaatuaiahutapu & Victoire Laurent - How climate change may impact extreme swell events in French Polynesia in 2050?	**Serena Lee** - Investigating how sea level rise alters circulation in island coastal waters– Numerical experiments focussed on the Vanuatu and New Caledonia region	**Elisabeth Vogel** - Applications of seasonal hydrological forecasts in the agricultural sector	**Hanna Heidemann** - The role of the IPO and ENSO in Australian monsoon variability
	Cinara Ewerling da Rosa -Meteorological observations of the Vento Norte phenomenon associated with heat waves in south Brazil: a case study	**Kathleen Mcinnes** - The Role of Sea-level Rise in Recent Coastal Hazard Events in the Western Pacific	TBC	**Zoe Gillett** - The development of the Pacific-South American teleconnection pattern during austral winter
	Savin Chand - Objective reconstruction of long-term tropical cyclone proxy records from reanalysis data set for climate trend analysis	**Julian O'Grady** - Extreme Water Levels in Mixed Wind Climates in the Pacific	TBC	**Agus Santoso** - Indonesian Throughflow Variability and Linkage to ENSO and IOD in an Ensemble of CMIP5 Models
	Q&A	Q&A	Q&A	Q&A
12:30pm	Lunch Break			
Session	**Atmospheric processes and observations - general session 2**	**Climate Change in Pacific Island Countries 2**	**Tropical Cyclones**	**Tropical climate variability: dynamics, teleconnections, and impacts 2**
1:00pm	**Donald Nkabinde** - A Direct Link Between Rossby Wave Breaking and Heavy Rainfall over South Africa	**Hamish Ramsay** - Tropical cyclone risk in the Vanuatu region	**Ivica Janekovic** - Impacts of the Ocean – Atmosphere 2-way interactions in tropical cyclone modelling	**Nicola Maher** - Modulation of ENSO Teleconnections over North America by Pacific Decadal Variability
	Tsholanang Rammopo - Investigating Rossby wave packets over South Africa	**Yuji Masutomi** - AP-PLAT: Asia-Pacific Climate Change Adaptation Information Platform	**Charitha Pattiaratchi** - Ocean impacts of Tropical Cyclone Seroja	
	Thando Ndarana - The dynamics associated with two types of ridging South Atlantic Ocean anticyclones over South Africa	**Vanessa Hernaman** - VanKIRAP – tailored Vanuatu climate projections for effective and informed decision making	**Clair Stark** - The change in ocean heat due to tropical cyclones	**Andrew Marshall** - MJO impacts on Australian climate extremes
	Kevin Ohneiser - Long-term lidar measurements of Australian wildfire smoke layer in the stratosphere over southern South America in 2020-2021: Potential influence on ozone reduction?	**Leanne Webb** - Pacific Island case studies demonstrate how climate change projections can be applied to assist sectoral adaptation planning	**Elizabeth Ritchie** - Investigation of the atmospheric environments associated with TC size changes	**Fadhlil Rizki Muhammad** - The Influence of Cross-Equatorial Surge on Extreme Rainfall in Jakarta
	Erin Dunne - Measurements of air-sea fluxes of biogenic and oxygenated organic gases in the South-West Pacific using novel ship-born mesocosm studies	**Neil Holbrook** - Impacts of marine heatwaves on tropical western and central Pacific Island nations and their communities	**Stuart Moore** - Moving Earth (not heaven): A novel approach to tropical cyclone impact modelling	**Claire Vincent** - Feedbacks between clouds, moisture, radiative forcing and diurnal convection: Observations and idealised modelling
	Calum Knight - Cloud microphysical processes above Southern Ocean Sea ice and coastal Antarctica	**Hannah Barrowman** - Managing the impacts of climate change on root crop production and value chains in the Pacific: Lessons from Fiji	**Ian Smith** - Quantifying the role of friction in the dissipation of tropical cyclones	**Georgina Falster** - Multi-method, multi-proxy reconstructions of the Pacific Walker Circulation over the past 800 years

	James Tamhane - Holocene dynamics of the Southern Hemisphere westerly winds: A depositional dust record from the Falkland Islands (Islas Malvinas)	**James Butler** - Knowledge brokering to mainstream climate risk into decision-making	**Ivan Kennedy** - Vortical action and entropy: a mechanistic hypothesis for the power of tropical cyclones driven by the latent heat of condensation of water	**Nerilie Abram** - Tropical Ocean responses to large volcanic eruptions during the last millennium
	TBC	**Jessica Lees** - Finding alignment between disaster risk reduction and climate change adaptation: community perceptions, practice and policy in the Pacific	**Hongyan Zhu** - On the dynamics of the December 2020 medicane	**Tomoki Tozuka** - Contribution of the oceanic teleconnection to amplitude asymmetry of the Ningaloo Niño/Niña
	Q&A	Q&A	**Joanna Aldridge** - A Comprehensive Tropical Cyclone Hazard and Risk Assessment Verification Framework	Q&A
			Craig Arthur - The TC SST - enabling access to tropical cyclone impact information	
			Ralph Trancoso - Tropical Cyclone Hazard Dashboard (TC–): a new web application informing the current and future wind hazard over Queensland	
			Q&A	
3:00pm	**Session Concludes**			

Thursday 17 February				
10:15am	**Invited Speaker: Julie Arblaster (Monash University) -** Tropical to polar interactions in the Southern Hemisphere			
Session	**Severe Thunderstorms in the Southern Hemisphere 1**	**Changes in atmospheric circulation and Southern Hemisphere regional climate 1**	**Renewable energy nexus with weather and climate**	**Tropical climate variability: dynamics, teleconnections, and impacts 3**
10:45am	**Ross Blamey** - Mesoscale convective systems in eastern South Africa and their importance in the local hydrological cycle	**Roseanna McKay** - Review of large-scale drivers influencing Australia's rainfall changes in different season	**Abhnil Prasad** - Reduction in solar energy due to soiling from dust in Australia	**Cyril Dutheil** - The western Pacific rainfall response to climate change: Sensitivity to projected Sea Surface Temperature patterns
	Christina Liesker - Characteristics of left-moving supercell thunderstorms over the Highveld of South Africa	**Andrew King** - Trends and emergence in Australian extreme rainfall across timescales	**Marania Hopuare** - Investigating wind energy potential in Tahiti, French Polynesia	**Cristian Martinez-Villalobos** - Two types of Coastal El Niño events
	Liesl Dyson - Hail climatologies from reanalysis data over South Africa; the influence of horizontal resolution	**Acacia Pepler** - Changing characteristics of frontal rainfall affecting southern Australia	**Christopher Lennard** -Mesoscale modelling in the development of the Wind Atlas for South Africa	**Maryam Al-ansari** - Asymmetries in the El Nino Southern Oscillation Phase Space Diagram

	Hooman Ayat - Radar object-based climatology of precipitation systems over Sydney, Australia	**Pandora Hope** - The impact of natural and anthropogenic forcing on the rainfall decline in south west Australia	**Claire Vincent** - Nocturnal Boundary Layer effects in SE Australia: Implications for wind energy production	**Annette Stellema** - Projected changes of Pacific Equatorial Undercurrent sources and pathways
	Joshua Hartigan - Developing a Severe Thunderstorm Climatology for Australia with Machine Learning	**Irina Rudeva** - Trends in the mean meridional atmospheric circulation in the Southern Hemisphere: connecting short-term variability with long-term trends	**Rachael Quill** - A robust automated quality-control engine to improve forecasting wind generation	**Nandini Ramesh** - The Impacts of Eastern Boundary Upwelling on the Tropical Atmosphere
	Kellie Cook - A convective hailstorm climatology and associated environments for Sydney, Australia	**Eun-pa Lim** - The 2019 Southern Hemisphere Stratospheric Polar Vortex Weakening and Its Impacts	**Evgenia Titova** - Intra–Hour Forecasting for Energy Applications	**Yi Huang** - Synoptic and Dynamical Characteristics during the Coral Bleaching Events over the Great Barrier Reef
	Timothy Raupach - Hail proxy reliability across Australia	**Gareth Marshall** - Can current reanalyses accurately portray changes in Southern Annular Mode structure prior to 1979?	TBC	**Zeya Li** - ENSO modulation of sea surface temperatures off Australia's west and southeast coasts
	Andrew Brown - Modes of severe thunderstorm wind occurrences in southeast Australia	**Ryan Fogt** - Extratropical Southern Hemisphere Synchronous Pressure Variability in the Early 20th Century	TBC	**Liesl Dyson** - Africánes in southern Africa: a significant rain bearing, tropical cyclone like synoptic scale low pressure system
	Q&A	Q&A	Q&A	Q&A
12:30pm	Lunch Break			
Session	**Severe Thunderstorms in the Southern Hemisphere 2**	**Changes in atmospheric circulation and Southern Hemisphere regional climate 2**	**Understanding compound events and multivariate risk**	**Tropical climate variability: dynamics, teleconnections, and impacts 4**
1:00pm	**Daniel Veloso Aguila** - Tornadoes in Subtropical South America: Mesoscale to Large Scale Environments	**Elio Campitelli** - Recent trends in symmetric and asymmetric components of the Southern Annular Mode	**Kate Saunders** - Statistical post-processing of compound event forecasts	**Wenju Cai** - Opposite response of strong and moderate positive Indian Ocean Dipole SST variability to global warming
	Annabel Bowden - The association between elevated mixed layers and severe thunderstorm environments in eastern Australia	**Rishav Goyal** - A new zonal wave 3 index for the Southern Hemisphere	**Kathryn Allen** - How unusual are recent tree dieback events associated with compound extremes? Can palaeoclimate records help with answers?	
	Joshua Soderholm - Measuring Hailstone Trajectories with the HailSonde	**Anderson Augusto Bier** - Changes in the South Atlantic Dipole and impacts on South America	**Charuni Pathmeswaran** - Exploring potential links between co-occurring coastal terrestrial and marine heatwaves in Australia	**Scott Power** - Climate change and decadal climate variability in the tropical Pacific: A Review
	Stacey Hitchcock - How close are simulated hail swaths to reality?	**Julia Mindlin** - Combined Effects of Global Warming and Ozone Depletion/Recovery on Southern Hemisphere Atmospheric Circulation and Regional Precipitation	**Kimberley Reid** - Impacts and Structure of Atmospheric Rivers over Australia	**Peter Van Rensch** - Atmosphere model deficiencies in simulating decadal-scale strengthening of tropical Pacific winds

	Matthew Mason - Assessing the boundary layer winds within thunderstorm outflows	**Fraser Dennison** - The regional climate impact of ozone depletion and recovery in the CCMI-2022 model set	**Nina Nadine** - Ridder High Impact Compound Events in Australia	**Chen-Shuo Fan** - Conceptual understanding of how large-scale tropical circulation change under global warming
	Salomé Hussein - Modelling Convective Storm Attributes in Australia using Radar, Reanalysis, and Deep Learning	**Luciana Prado** - Southern Annular Mode characterization in the Brazilian Earth System Model (BESM)	**Doug Richardson** - Global increase in wildfire potential from compound fire weather and drought	**Rajashree Naha** - Exploring the symmetry of pan-tropical connections of the Atlantic on the Tropical Pacific
	Harald Richter - New convective guidance at the Australian Bureau of Meteorology	**Sarah Jackson** - Climatic Controls on Precipitation in East Antarctica and the Impacts on an Ice Core Stable Water Isotopes Record	**Cassandra Rogers** -Recent increases in exposure to extreme humid-heat events disproportionately affect populated regions	**Shreya Dhame** - The potential impact of the Indian Ocean warming trend on ENSO and Atlantic Ocean variability
	Natasha Jacobson-Ellie - Severe hail prediction in Victoria using updraft helicity from a convection allowing ensemble forecasting system.	**Lingwei Zhang** - Identifying atmospheric processes favouring the formation of Bubble free layer in the Law Dome DSS1617 ice cores, East Antarctica	TBC	**Daohua (Dave) Bi** - Improved tropical Pacific-Atlantic teleconnection in a pacemaker experiment
	David Grant - Tornado forecast communication: an operational decision support meteorologist perspective	**Jessica Hargreaves** - Tropical Rainfall Belt Trends and Variability Across the Southeast Tropical Indian Ocean over the Instrumental Period	Q&A	Q&A
	Q&A	Q&A		
3:00pm	**Session Concludes**			

Poster Presentations

All poster presentations will be available virtually.

Posters at the University of Canterbury can also be viewed at the Poster and Networking Reception, Wednesday 10 July 5.45-7pm.

Poster Title	Presenter
Cut-off low over the southeastern Pacific Ocean: a case study	Vannia Aliaga Nestares
Impact of millennial-scale climate change on biological and physical processes of the South West Pacific	Harris Anderson
The Combined Influence of ENSO and IOD on South American climate during Austral Spring	Luciano Andrian
The world's longest known parallel temperature dataset: a comparison between daily Glaisher and Stevenson Screen temperature data at Adelaide, Australia, 1887–1947	Linden Ashcroft
Cirrus cloud characteristics at the southern-hemispheric midlatitude site of Punta Arenas (53°S, 71°W)	Boris Barja
Projections of future marine heatwaves for the oceans around New Zealand and Australia using New Zealand's Earth System Model	Erik Behrens
Seasonal and Interannual Variability of the South Indian Ocean Sea Surface Salinity Maximum	Frederick Bingham

The Interhemispheric Rossby Wave propagation during South Atlantic Convergence Zone episode in January 2009	Hugo Braga
The Teleconnection between South Pacific Convergence Zone and South Atlantic Convergence Zone during La Niña Years	Hugo Braga
Recruiting Volunteers for Historical Weather Records Spreadsheet Entry	Howard Bridgman
Observing System Experiments with AMPS-Polar WRF During the YOPP-SH Summer Special Observing Period	David Bromwich
The potential of Self Organizing Maps as a tool to improve seasonal prediction in Brazil	Paola Bueno
Dynamics of Ross Ice Shelf Polynya during Winter and Spring from Sentinel-1 SAR Data	Girija Kalyani Burada
Comparative studies between acoustic observations of frazil ice and modelling of frazil ice in ice shelf water	Nina Caldarella
The impacts of the Pacific-South American modes in mid-latitudes climate are highly sensitive to the location of tropical SST anomalies	Elio Campitelli
Meteochile Blog: the Chilean Weather Service experience in science communication	Diego Campos
Diurnal, seasonal, inter-annual variations and trends of surface Ozone at the Cape Point Global Atmospheric Watch (GAW) Station, South Africa	Sylivester Chaisamba
A Data Driven Approach to MJO Detection and Forecasting using Dynamic Mode Decomposition	Christopher Chapman
The role of the Tropical Atlantic on modulating Tropical Pacific variability	Christine Chung
Large-scale forcing of regional atmospheric circulation patterns driving extreme Foehn warming in the McMurdo Dry Valleys	Kyle Clem
Evaluation of CMIP6 models in the representation of observed extreme temperature indices trends in South America	Soledad Collazo
Characteristic mesoscale ocean circulation offshore of the Kaikōura submarine canyon, New Zealand, associated with synoptic weather patterns	Phellipe Couto
Examining the Role of Environmental Memory and Predictability in Carbon and Water Fluxes Across Australian Ecosystems	Jon Cranko Page
Microstructural processes governing the behaviour of basal marine shelf ice	Lisa Craw
Extreme winds and waves over the southwestern South Atlantic in a regional downscaling	Natalia Crespo
A palaeoclimate proxy database for water security planning in Queensland Australia	Jacky Croke
Comparing single and multi-layered low-level cloud regimes and evaluation of liquid spatial inhomogeneity over the Southern Ocean using in situ observations from SOCRATES	John D'Alessandro
Multi-scale rainfall extremes in Northeastern Australia	Thi Lan Dao
Which regions in MDV are warming more than the others	Rajasweta Datta
Projected Changes and Time of Emergence in Temperature Extremes over Australian regions	Xu Deng
High-resolution Quantile-Quantile scaled climate scenario projections for Australia	Raktima Dey
Evaluating the performance of 78 regional climate models to guide next-generation climate projections over CORDEX-Australasia	Giovanni Di Virgilio
Induced wave setup in narrow lagoons: Application to Poé beach (New Caledonia)	Maxime Duphil
Does the Vento Norte phenomenon impact soy and maize productivity in southern Brazil? First approach	Cinara Ewerling da Rosa
Influence of the Southamerican Low-Level Jet (SALLJ) on precipitation over the Southern Peruvian Highlands (SPH) during summertime: Part 2	Cristian Febre
Potential heat gateways into the Ross Sea from profiling floats and model simulations	Denise Fernandez

Examining 50 years of ecological relevant Southern Ocean variables using a high-resolution model	Denisse Fierro Arcos
Analysis of an 18 year record of circum-Antarctic fast ice distribution: extent, trends and climate consequences	Alexander Fraser
Investigating tropical vs. extratropical influences on the Southern Hemisphere tropical edge in the Unified Model and CMIP6	Pia Freisen
Evaluation of the wind and wave measurements of the CFOSAT satellite mission in the Southeast Pacific region	Alexandra Fuenzalida-Artigas
Improving ocean forecasts through data assimilation in the northeast shelf of New Zealand	Carine G. R. Costa
Pacific Ocean Pathways in support of sustainable development: an integrated approach	Alexandre Ganachaud
Pacific Ocean Pathways in support of sustainable development: an integrated approach	Alexandre Ganachaud
The impact of the semipermanent anticyclones in the Atlantic and Pacific Oceans over air temperature and precipitation in Argentina	Eugenia Garbarini
Implications of the wave climate of the Southern Hemisphere on ship design	Sally Garrett
MethaneSat Retrieval Algorithm Assessment using Groundbased Spectra	Alexander Geddes
Dynamics of the sudden stratospheric warming of 2019 in the southern hemisphere	Nahuel Gómez
Response of Southern Hemisphere western boundary current regions to future zonally symmetric and asymmetric atmospheric changes	Rishav Goyal
Why is the Southern Hemisphere extratropical atmospheric circulation not zonally symmetric?	Rishav Goyal
Climate scenarios of mean climate change for 2050 in the Pacific using storylines	Michael Grose
Climate extremes recorded in playa lakes across continental Australia over the last Millenia	Sophie Grunau
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