

Session 1 (Last glaciation and termination- Abrupt climate change)

Sat 16th May; 9 am

David Barrell, GNS, Dunedin, Records of past climate changes obtained from glacier landforms, central South Island, New Zealand – an overview

Tim Davies, University of Canterbury, Landslide-triggered glacial advances and terminal moraines; paleoclimatic implications

James Shulmeister, University of Canterbury, Re-evaluating the deglacial sequence in New Zealand – Part 2 - sudden ice collapse or gradual retreat?

Elisabeth Sikes, Rutgers University, Northern New Zealand Deglacial Climate and the Antarctic Cold Reversal, Cooler, Drier, or Both?

Les Cwynar, University of New Brunswick, Paleotemperature reconstructions from Mount Field National Park, Tasmania

Session 2 (Interconnections, Southern Hemisphere comparisons)

Sat 16th May; 1.30 pm

John Hellstrom, University of Melbourne, A southern hemisphere lead at the last two glacial terminations, indicated by montane speleothem records from New Zealand and Italy

Brenda Hall, University of Maine, Orono, History of the grounded ice sheet in the Ross Sea sector, Antarctica: New data from Scott and Reedy Glaciers

David Fink, Institute for Environmental Research, ANSTO, Southern Hemisphere millennial glaciations during the past 30 ka driven by Antarctic ice sheet variability

Patrick DeDeckker, ANU, Pb isotope evidence for dust transport from Australia to Antarctica. A call for coring in the Pacific Sector of the Southern Ocean

Paul Williams, University of Auckland, New Zealand cave records show distinctive Southern Hemisphere paleoclimatic signatures: LGM at Stage 4, no Younger Dryas, and a Polynesian Warm Period

Lynda Petherick, University of Queensland, Reconstructing late Quaternary climates and environments of subtropical eastern Australia: A high resolution, continuous, multi-proxy record

Raphael Wust, James Cook University, Townsville, Late Pleistocene onset of monsoonal rain and abrupt strengthening of ENSO 3,900 cal yrs BP recorded by diatomaceous sediments from dry tropical Australia

Session 3 (Geochronology)

Sun 17th 8.40 am

Joerg Schaefer, LDEO, Columbia University, Precise ¹⁰Be dating of glacier fluctuations in the Southern Alps, New Zealand, over the last 70,000 years

Robert Finkel, University of California, Berkeley, Surface exposure dating in the Holocene – precise ¹⁰Be techniques for very young surfaces

Quan Hua, Australian Nuclear Science and Technology Organisation, Variations in tree-ring ¹⁴C for the Younger Dryas

Alan Hogg, University of Waikato, Assessment of the integrity of the Southern Hemisphere ¹⁴C calibration curve and its extension from AD 785 to 195 BC, with a new preliminary calendar age for the Taupo Tephra

David Lowe, University of Waikato, Introducing SUPRAnet and some implications for age modelling in the Australasian INTIMATE project

Session 4 (Drivers and climates of the Southern Hemisphere)

Sun 17th 2 pm

Andrew Mackintosh, Victoria University of Wellington, Drivers of Southern Hemisphere climate variability: a view from modelling of New Zealand glaciers

Hinrich Schaefer, NIWA Wellington, Stable Carbon isotope constraints on CO₂ fluxes during the last glacial period: a case study

Alexandra Giese, Harvard University, Equilibrium Line Altitude Depression of Mountain Glaciers at the Last Glacial Maximum: Greenhouse Gas and Orbital Controls

Mark Quigley, University of Canterbury, Holocene climate variability in arid Australia from speleothem and alluvial records

Gerald Nanson, University of Wollongong, Late Quaternary climate change in central Australia: mega-lake phases and the climate that drove them