



# New Zealand and SCAR

New Zealand undertakes year-round Antarctic research, with significant participation and collaborations within the SCAR research programmes. New Zealand's science outcomes shape Antarctic policy via the IPCC, the Antarctic Environments Portal, CCAMLR and the Antarctic Committee for Environmental Protection. The Royal Society Te Apārangi National Committee on Antarctic Science acts as New Zealand's national expert panel on Antarctic Science when coordinating matters for the Scientific Committee on Antarctic Research.



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## New Zealand links to SCAR Research

### Ant-ERA

- Contact researcher: Dr Vonda Cummings
- New Zealand Organisation: NIWA
- Focus: Facilitate the science required to examine changes in biological processes, from the molecular to the ecosystem level, in Antarctic and Sub-Antarctic marine, freshwater and terrestrial ecosystems. Tolerance limits as well as thresholds, resistance and resilience to environmental change will be determined.

### GeoMap

- Contact researcher: Dr Simon Cox
- New Zealand Organisation: GNS Science
- Focus: Geological mapping as part of Core Science (MURG Programme) and contribution to Landcare RSRTDA programme.

### PAIS

- Contact researcher: Prof Tim Naish
- New Zealand Organisation: Victoria University of Wellington
- Focus: Understanding the sensitivity of the Antarctic Ice Sheet and its contribution to past and future sea level and climate change

### Physical Oceanography

- Contact researcher: Dr Mike Williams
- New Zealand Organisations: NIWA, Otago University, Auckland University
- Focus: Ice shelf-sea ice- ocean interactions, ice shelf cavity circulation, wave sea ice interaction

### AntVol

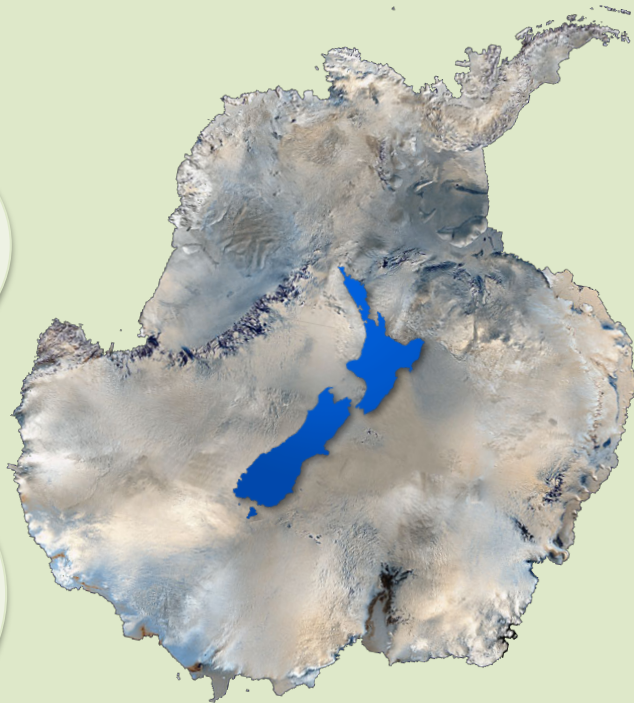
- Contact researcher: Dr Adam Martin
- New Zealand Organisation: GNS Science
- Focus: Past Antarctic ice sheet characteristics and stability deduced from lava-ice interactions

### ANTOS

- Contact researcher: Prof Craig Cary
- New Zealand Organisations: Waikato University, International Centre for Terrestrial Antarctic Research, NIWA
- Focus: Identify and interpret biological response to long-term environmental change to Antarctica's continental and Subantarctic near-shore and terrestrial systems

### AntClim<sup>21</sup>

- Contact researcher: Assoc Prof Nancy Bertler
- New Zealand Organisations: GNS Science, Victoria University of Wellington, NIWA, Bodeker Scientific
- Focus: Past climate reconstructions/future projections, integration between physical changes in the environment and impacts on ecosystems, modern day observations, recent trends (atmosphere, ice, ocean, ecosystem health)



### SERAnt

- Contact researcher: Prof Craig Rodger
- New Zealand Organisation: University of Otago
- Focus: The nature of the upper atmosphere and near-Earth space, and the broader field of space weather, investigating how the Sun impacts our environment and technology

### HASSEG

- Contact researcher: Dr Daniela Liggett
- New Zealand Organisations: Canterbury University, Lincoln University
- Focus: Breadth of human engagement with Antarctica from a wide range of disciplinary and epistemological perspectives

### ISSA

- Contact researcher: Prof Gary Wilson
- New Zealand Organisations: University of Otago, Waikato University, NIWA
- Focus: Identify pressing questions and opportunities for the Subantarctic environment, and develop an integrated science programme to address them

## SCAR support within New Zealand



### Antarctica New Zealand

- Logistics
- Antarctic Environments Portal
- Policy advice
- Environmental stewardship
- Antarctic databases

Contact: Fiona Shanhun  
f.shanhun@antarcticanz.govt.nz  
www.antarcticanz.govt.nz/



### New Zealand Antarctic Research Institute

- Research programme development
- Science support and co-ordination
- Research funding

Contact: Prof. Craig Cary  
caryc@waikato.ac.nz  
www.nzari.aq



### Royal Society Te Apārangi

- Royal Society Te Apārangi National Committee on Antarctic Science
- Research funding
- SCAR activity coordination in New Zealand

Contact: Prof. Gary Wilson  
gary.wilson@otago.ac.nz  
www.royalsociety.org.nz/national-committee-on-antarctic-sciences/



### Land Information New Zealand

- Mapping
- Antarctic place naming
- Surveying of historic huts
- Survey and GIS support including of the SSIs
- Hydrographic surveying
- Reporting through SCAGI & GIANT

Contact: Graeme Blick  
gblick@linz.govt.nz  
www.linz.govt.nz



### Ministry of Business Innovation, Employment

- Research programme development
- Research funding



### Ministry of Foreign Affairs and Trade

- Participation in the Antarctic Treaty System, CCAMLR

Contact: <https://www.govt.nz/>