MEMBER COUNTRY: **New Zealand**

National Report to SCAR for						
Activity	Contact Name	Address	Telephone	Fax	Email	web site
National SCAR Committee						
Executive Officer	Dr Ashok Parbhu	P O Box 598, Royal Society of NZ, Wellington, New Zealand	64-4-4727421	64-4-4731841	ashok.parbhu@royalsociety.org.nz	www.royalsociety.org.nz
1) Delegate	Professor Bryan Storey	Gateway Antarctica, University of Ca	+64-3-364 2368	+64-3-364 2197	bryan.storey@canterbury.ac.nz	www.anta.canterbury.ac.nz
2) Alternate Delegate	Dr Clive Howard-Williams	NIWA, P O Box 8602, Christchurch, New Zealand	64-3-3437857	+64-3-3485548	c.howard-williams@niwa.co.nz	www.niwa.co.nz
Standing Scientific Groups						
Life Sciences						
1) NZ Representative	Dr Clive Howard-Williams	NIWA, P O Box 8602, Christchurch, New Zealand	64-3-3437857	+64-3-3485548	c.howard-williams@niwa.co.nz	www.niwa.co.nz
2) Deputy Chief Officer	Dr Gary Steel	Division, P O Box 84, Lincoln	+64-3-325 3820	+64-3-325 3820	steelg@lincoln.ac.nz	www.lincoln.ac.nz
3)	Dr Victoria Metcalf	Agriculture and Life Sciences, Lincoln University, PO Box 84, Lincoln 7647, Canterbury	6433218194	6433253851	victoria.metcalf@lincoln.ac.nz	www.lincoln.ac.nz
4)	Prof Roberta Farrell	Dept of Biological Sciences The University of Waikato Private Bag 3105 HAMILTON	64 7 8384704	64 7 838 4976	r.farrell@waikato.ac.nz	www.waikato.ac.nz
Geosciences						
1) NZ Representative	Professor Bryan Storey	Gateway Antarctica, University of Ca	+64-3-364 2368	+64-3-364 2197	bryan.storey@canterbury.ac.nz	www.anta.canterbury.ac.nz
2)	Professor Peter Barrett	Antarctic Research Centre, Victoria University of Wellington, P O Box 600, Wellington	+64-4-463 5336	64-4-495-5186	peter.barrett@vuw.ac.nz	www.vuw.ac.nz/antarctic/
3)	Dr Stuart Henrys	GNS Science, PO Box 30-368, Lower Hutt	64-4-570-4812	64-4-570-4603	s.henrys@gns.cri.nz	www.gns.cri.nz
4)	Dr Megan Balks	School of Science & Engineering, Ea	64-7-856 2889	64 7 856 0115	m.balks@waikato.ac.nz	www.waikato.ac.nz/home.shtml
,	Dr Andrew MacIntosh	Antarctic Research Centre, Victoria University of Wellington, P O Box 600, Wellington		64 4 463 5186	andrew.mackintosh@vuw.ac.nz	www.vuw.ac.nz/antarctic/
Physical Sciences		, ,	1000000	1011111111111		
NZ Representative	Dr Nancy Bertler	Senior Scientist, Joint Antarctic Research Institute, Victoria University and GNS Science, P O Box 600, Wellington 1142	64-4-463-6196	64-4-463-6196	Nancy.Bertler@vuw.ac.nz	www.victoria.ac.nz & www.gns.cri.nz
2)	Wendy Lawson	University of Canterbury , Private	+64-3-3642920	+64-3-3642907	wendy.lawson@canterbury.ac.nz	www.geog.canterbury.ac.nz
3)	Dr Mike Williams	National Institute of Water and Atmospheric Research, Private Bag 14901, Kilbirnie, Wellington	+64-4-3860389	+64-4-3862153	m.williams@niwa.co.nz	www.niwa.co.nz
	Dr Craig Rogers	Department of Physics University of Otago	64 3 479 4120	64 3 47909 64	crodger@physics.otago.ac.nz	www.otago.ac.nz/physics

Activity	Contact Name	Address	Telephone	Fax	Email	web site
Scientific Research Program						
ACE						
ACE		Victoria University of Wellington, PO	1	1		
		Box 600, Wellington, New Zealand				
1	Professor Tim Naish	Box 666, Wellington, New Zealand	6444626407	+64 4 4635186	tim.naish@vuw.ac.nz	www.victoria.ac.nz
1)	Professor filli Naisii	Division of Sciences, P O Box 56,	0444030197	T04 4 4033100	till:llaisli@vuw.ac.liz	www.victoria.ac.iiz
2)	Professor Gary Wilson	Dunedin 9054			Gary.wilson@stonebow.otago.ac.nz	www.otago.ac.nz/geology
		GNS Science, PO Box 30-368,				georgy
3)	Dr Stuart Henrys	Lower Hutt	64-4-570-4812	64-4-570-4603	s.henrys@gns.cri.nz	www.gns.cri.nz
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AGCS	D. N D. II.	To the Original Line And the Control	04 4 400 0400	04 4 400 0400	N. P. H. O.	
	Dr Nancy Bertler	Senior Scientist, Joint Antarctic Research Institute, Victoria	64-4-463-6196	64-4-463-6196	Nancy.Bertler@vuw.ac.nz	www.victoria.ac.nz & www.gns.cri.nz
		University and GNS Science, P O				
1)		Box 600, Wellington 1142				
EBA						
4)	Dr Clive Heward Williams	NIWA, P O Box 8602, Christchurch,	64 0 0407057	164 2 2405540	a haverd williams @nive as no	
1)	Dr Clive Howard-Williams	New Zealand Agriculture and Life Sciences,	64-3-3437857	+64-3-3485548	c.howard-williams@niwa.co.nz	www.niwa.co.nz
		Lincoln University, PO Box 84,				
2)	Dr Victoria Metcalf	Lincoln 7647, Canterbury	6433218194	6433253851	victoria.metcalf@lincoln.ac.nz	www.lincoln.ac.nz
	2. Flotona motoan	Department of Biological Sciences,	0.002.0.0.	0.0020000.		
		University of Waikato, Private Bag				
3)	Dr Ian Hogg	3105, Hamilton 3240	+64-7-838 4139		i.hogg@waikato.ac.nz	www.waikato.ac.nz/home.shtml
		NIWA Ltd. Private Bag 14901,				
4)	Dr Vonda Cummings	Wellington. New Zealand	+64-4-386 0300	+64-4-386 0574	v.cummings@niwa.co.nz	www.niwa.co.nz
SALE						
AAA (2010-)						
ACTION GROUPS						
SCAR History Group						
		GNS-Science, PO Box 30368,				
Acoustics	Dr Stuart Henrys	Lower Hutt	+64 4 5704812		s.henrys@gns.cri.nz	www.gns.cri.nz
		010 0 1 0000				
A - - - - - - -	Dr. Chuart Hannia	GNS-Science, PO Box 30368, Lower Hutt	164 4 5704040		a hannya@ana ayi na	
Acquisition of multibeam data	DI Stuart Herriys	Lower Hutt	+64 4 5704812		s.henrys@gns.cri.nz	www.gns.cri.nz
		National Institute of Water and				
		Atmospheric Research, Private Bag				
Continuous plankton recorder	Dr Mike Williams	14901, Kilbirnie, Wellington	+64-4-3860389	+64-4-3862153	m.williams@niwa.co.nz	www.niwa.co.nz
		, i i i i i i i i i i i i i i i i i i i				
EXPERT GROUPS						
GIANT	Mr Graeme Blick	Land Information NZ, Private Bag 55	+64-4-4716859		gblick@linz.govt.nz	www.linz.govt.nz/home/index.html
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		Department of Physics, University of				
ICESTAR	Dr Craig Rodger	Otago, P O Box 56, Dunedin	64-3-479-4120		crodger@physics.otago.ac.nz	www.otago.ac.nz/physics
Permafrost Periglacial Envir	Dr Megan Balks	School of Science & Engineering, Ea	64-7-856 2889	64 7 856 0115	m.balks@waikato.ac.nz	www.waikato.ac.nz/home.shtml
Ţ.						

Activity	Contact Name	Address	Telephone	Fax	Email	web site
IBCSO	Dr V Stagpoole	GNS-Science, PO Box 30-368, Lowe	+64-4-5704832	+64 4 5704 603	v.stagpoole@gns.cri.nz	www.gns.cri.nz
ADMAD						
ADMAP						
ANTEC						
BIRDS	Dr Phil Lyver	Landcare Research PO Box 40 Lincoln 8152 CHRISTCHURCH	64 3 321 9726	64 3 321 9998	lyverp@landcareresearch.co.nz	http://www.landcareresearch.co.nz
SEALS						
SEALS						
HB&M	Dr Gary Steel	Environment, Society, and Design Di	i +64-3-325-3820	+64-3-325-3820	steelg@lincoln.ac.nz	www.lincoln.ac.nz
1014 4 0 0						
ISMASS						
OpMet						
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OCEAN	Dr Mike Williams	National Institute of Water and Atmos	64-4-3860389	+64-4-3862153	m.williams@niwa.co.nz	www.niwa.co.nz
DRILL	Dr Nancy Bertler	Senior Scientist, Joint Antarctic Research Institute, Victoria University and GNS Science, P O Box 600, Wellington 1142	64-4-463-6196	64-4-463-6196	Nancy.Bertler@vuw.ac.nz	www.victoria.ac.nz & www.gns.cri.nz
CTANDING COMMITTEES	(60)					
STANDING COMMITTEES SC-ATS	(50)					
SC-AGI NZ Delegate	Mr Graeme Blick	Land Information NZ, Private Bag 55	+64-4-4716859		gblick@linz.govt.nz	www.linz.govt.nz
	Ms Wendy Shaw	Land Information New Zealand, National Office, Private Box 5501, Wellington			wshaw@linz.govt.nz	www.linz.govt.nz
SC-FINANCES						
SCADM NZ Coordinator	De Ed Duffer	Automotic New Zealand Drivet D	640050000	1.64.2.250.0044	a hutlar@antarati	variations t t
NZ Coordinator	Dr Ed Butler	Antarctic New Zealand, Private Bag	643358020	+64-3-358 0211	e.butler@antarcticanz.govt.nz	www.antarcticanz.govt.nz/
NATIONAL ANTARCTIC DA	ATA CENTRE					
NZ Coordinator	Dr Ed Butler	Antarctica New Zealand, Private Ba	+64 3 3580205	+64-3-358 0211	s.gordon@antarcticanz.govt.nz	www.antarcticanz.govt.nz/
SCAR DATABASE						
insert name of database for	which your country has resp	onsibility				

A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS*: Science Supported by Antarctica New Zealand 2009/2010 **Antarctic Physical Environments Research Climate Change** ITASE – Holocene Variability along the Victoria Land Coast. NZ portion of the international project ITASE aimed at collecting and analysing ice cores to determine the spatial climate variability K049: across Antarctica over the last 200 years. This project focuses on coastal cores which have been shown to be very sensitive to climatic variability. (Sir Robin Irvine Doctoral Scholarship). Dynamics and Change of the Darwin-Hatherton Glacial System. Studying the response of the Antarctic ice sheet to future climate change. Combines glacial, geomorphological and climatological K056: approaches. Contributes to the Latitudinal Gradient Project. Aims to derive a new terrestrial paleotemperature proxy based on the isotopic composition of carbonate in Antarctic soils to allow us to test hypotheses of climatically influenced changes in hydrology and glacier dynamics, provide corroboration of ice-core based isotopic paleotemperature proxies, and potentially allow reconstruction of past atmospheric CO₂ isotopic composition. K072: (Helicopters New Zealand Doctoral Scholarship). The Cryosphere The aim of this project is to improve the accuracy of remotely sensed, satellite-derived, snow and ice data by calibrating these data with ground-truth measurements. K053: The goal of this research is to develop an understanding of the interactions between glaciers and permafrost that will permit models of glaciers to realistically parameterise ice motion, thus K064: improving their ability in predicting glacier response to climate change. Long-term study on sea ice and Southern Ocean processes. Looking at the physical oceanography of McMurdo Sound, the turbulence that exists under sea ice and its influence on ice formation, K131: circulation in Antarctic fjords, and the physical processes involved in the formation of frazil ice beneath land-fast sea ice. Is a NZ-IPY funded project. The Atmosphere Dynamics and Ionisation in the Antarctic Middle Atmosphere. Long-term study on the general circulation of the atmosphere, in particular, the behaviour of wave-driven circulation in the middle K055: atmosphere and how this effects the transport of energy and momentum to higher altitudes. K069: Long-term project monitoring magnetosphere-ionosphere coupling and space weather at high latitudes. Has applications for communications predictions and plasma physics. K085: Long-term research programme targeted at understanding the drivers of change in the atmosphere, particularly those involved in the formation of the Antarctic ozone hole. K087: Looking at human-induced long-term trends in trace gases to determine changes in oxidative capacity of the atmosphere. K089: Southern Ocean Research Oceanography of the Ross Sea K042: b/c. K014: Studying the distribution and abundance of meroplankton (larvae of benthic marine invertebrates and fish) in the water column. Uses morphological and molecular approaches to identify K018: common larval types. Contributes to the Latitudinal Gradient Project. Studying the productivity of algae that live in and under the sea ice. Determine what the effects of global climate change will have on this productivity (important because sea ice covers a large K043: area). Contributes to the Latitudinal Gradient Project and is a NZ-funded IPY project. Looking at how increased UV-R radiation damages the DNA of Antarctic invertebrate larvae and embryos and the impacts on how they recover from such damage. Also looking at the effects of K068: ocean acidification on the development the invertebrate's skeleton. Long-term project aimed at characterising the structure and function of benthic marine communities and determine their relationships to key environmental factors. Important for an improved K082: understanding of Antarctic biodiversity and ecology, and management of the Antarctic coastal zone. Contributes to the Latitudinal Gradient Project and is a NZ-funded IPY project.

Antarctic Ecosystems Research	
Terrestrial Biodiversity	
K020:	This Terrestrial Biocomplexity project is using an interdisciplinary approach to determine the present status of the biodiversity, and to predict the effects of multiple potential impacts on these ecosystems. The main goal of the research will be a dynamic geographic information system in which the specific observations about patterns and processes of the physical environment, plus observations of the presence of particular organisms and their interactions, will be mapped and linked with computer models that allow prediction into as-yet unsampled locations and scenarios for future change in conditions. Contributes to the LGP and is a NZ-funded IPY project.
K023:	Studies microbial speciation, biogeography, and evolution of thermal adaptation at a geographically isolated geothermal site.
Ecosystem Functioning	
к066:	This research aims to understand how terrestrial organisms have adapted to changes in the Antarctic climate during the last 35 million years by conducting physiological and phylogeographic studies of freezing tolerant and freezing resistant invertebrates. Contributes to the Latitudinal Gradient Project.
K081:	Studying various aspects of Antarctic aquatic ecosystems, geochemistry of ponds, photosynthetic and nitrogen fixation rates of microbial mats to assess model predictions against actual observations. Contributes to the Latitudinal Gradient Project and is a NZ-funded IPY project.
K122:	Long-term study on the population dynamics of the Adelie penguin population of the Ross Sea as a biological indicator of local, regional and global change. Contributes to the Latitudinal Gradient Project.
Human Ecology	
к073:	Aims to examine the relationships between circannual patterns of psychological and physical activity in Antarctica to generate recommended countermeasures for any decrements in health, safety, and job performance that may arise due to low periods of human activation while on deployment to Antarctica.
Management and Conservation	
K026:	Seeks to quantify the cumulative impacts of human activities on Antarctic soils, identify areas of greater vulnerability, increase our predictive environmental impact assessment abilities, and make way for informed management decisions in the future.
K123:	Research to support environmental protection and management of ice-free areas of the Ross Sea region by increasing the fundamental knowledge and understanding of Antarctic soils including soil distribution and climate, and vulnerability to human impact. Contributes to the Latitudinal Gradient Project.