

COUNTRY:						
Annual Report on national involvement in SCAR activities in year: 2006–2007						
Function / Group / Project	Contact Person (Name)	Address	Telephone	Fax	Email	other information (e.g. website URL)
National SCAR Committee						
Canadian Committee on Antarctic Research		Suite 1710, Constitution Square, 36	[1](613)943-8605	[1](613)943-8607	mail@polarcom.gc.ca	http://www.polarcom.gc.ca/index.html
	C. Simon L. Ommanney	CCAR Secretary, 27 Glen Davis Cr	[1](416)686-6307		simon.ommanney@sympatico.c	From June to September contact phone is [1](70
SCAR Delegates:						
Delegate	Steven Bigras	Suite 1710, Constitution Square, 36	[1](613)943-8605	[1](613)943-8607	mail@polarcom.gc.ca	http://www.polarcom.gc.ca/index.html
Alternate Delegate	C. Simon L. Ommanney	27 Glen Davis Crescent, Toronto, O	[1](416)686-6307		simon.ommanney@sympatico.c	From June to September contact phone is [1](70
Standing Scientific Groups						
Life Sciences						
Secretary LSSSG	Dr Kathleen Conlan	Canadian Museum of Nature, Life S	[1](613)364-4063	[1](613)364-4027	kconlan@mus-nature.ca	http://www.nature.ca/
	Dr Serge Demers	Directeur, Institut des sciences de la	[1](418)723-1986 x	[1](418)724-1842	serge_demers@uqar.qc.ca	http://www.pqm.net/ismer/anglais/accue
Geosciences						
	Dr Wayne Pollard	Department of Geography, McGill U	[1](514)398-4454	[1](514)398-7437	wayne.pollard@mcgill.ca	http://www.geog.mcgill.ca/mag2/pollard.htm
	Peter L. Pulsifer	Geomatics and Cartographic Resea	[1](613)520-2600 x	[1](613)520-2395	pulsifer@magma.ca	http://www.carleton.ca/gcrc/caap/index.htm
	Dr Kevin J. Hall	Geography Program, University of N	[1](250)960-5864	[1](250)960-6533	hall@unbc.ca	http://web.unbc.ca/geography/faculty/ke
Physical Sciences						
	Dr Thomas S. James	Geological Survey of Canada, Natur	[1](250)363-6403	[1](250)363-6565	tjames@nrcan.gc.ca	http://www.pgc.nrcan.gc.ca/geodyn/people/tj_hc
	Dr Marianne S.V. Douglas	Director, Canadian Circumpolar Inst	[1](780)492-0055	[1](780)492-1153	marianne.douglas@ualberta	http://www.uofaweb.ualberta.ca/polar/
	Dr Martin J. Sharp	Department Earth and Atmospheric	[1](780)492-4156	[1](780)492-2030	martin.sharp@ualberta.ca	http://easweb.eas.ualberta.ca/departmen

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Scientific Research Program						
ACE						
AGCS						
EBA						
	Dr Kathleen Conlan	Canadian Museum of Nature, Life S	[1](613)364-4063	[1](613)364-4027	kconlan@mus-nature.ca	http://www.nature.ca/
ICESTAR						
SALE						

Function / Group / Project	Contact Person (Name)	Address	Telephone	Fax	Email	other information (e.g. website URL)
ACTION GROUPS:						
SCAR History Group						
Acoustics						
SIGE						
CPR						
Biological Monitoring						
CAML						
Pelagic Realm Group	Dr Evgeny A. Pakhomov	Department of Earth and Ocean Sci	[1](604)827-5564	[1](604)822-6088	epakhomov@eos.ubc.ca	http://www.eos.ubc.ca/public/people/facu
MarBIN						
PAntOs						
ECA						
other (specify)						
ICCED						
Interim Steering Group Member	Dr Evgeny A. Pakhomov	Department of Earth and Ocean Sci	[1](604)827-5564	[1](604)822-6088	epakhomov@eos.ubc.ca	http://www.eos.ubc.ca/public/people/facu

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EXPERT GROUPS						
GIANT						
KGIS						
PPE	Dr Kevin J. Hall	Geography Program, University of N	[1](250)960-5864	[1](250)960-6533	hall@unbc.ca	http://web.unbc.ca/geography/faculty/kevin/
	Dr Wayne Pollard	Department of Geography, McGill U	[1](514)398-4454	[1](514)398-7437	wayne.pollard@mcgill.ca	http://www.geog.mcgill.ca/mag2/pollard.
IBCSO	Dr Ron Macnab	11 Lyngby Avenue, Dartmouth, Nov	[1](902)463-3963		ron.macnab@ns.sympatico.ca	
ADMAP						
ANTEC	Dr Thomas S. James	Geological Survey of Canada, Natur	[1](250)363-6403	[1](250)363-6565	tjames@nrcan.gc.ca	http://www.pgc.nrcan.gc.ca/geodyn/people/tj_hc
BIRDS						
SEALS						
HB&M	Dr David R. Williams	C/O Astronaut Office, Mail Code CB	[1](281)244-8883		david.r.williams1@jsc.nasa.gov	http://www.space.gc.ca/asc/eng/astronau
AAA						
ISMASS						
OpMet						
OCEAN						
DRILL						
other (specify)						
IPY POLENET	Dr Thomas S. James	Geological Survey of Canada, Natur	[1](250)363-6403	[1](250)363-6565	tjames@nrcan.gc.ca	http://www.pgc.nrcan.gc.ca/geodyn/people/tj_hc

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STANDING COMMITTEES (SC)						
SC-ATS						
SC-AGI	Peter L. Pulsifer	Geomatics and Cartographic Resea	[1](613)520-2600 x	[1](613)520-2395	pulsifer@magma.ca	http://www.carleton.ca/gcrc/caap/index.htm
	C. Simon L. Ommanney	27 Glen Davis Crescent, Toronto, O	[1](416)686-6307		simon.ommanney@sympati	From June to September contact phone is [1](70
SC-FINANCES						
JCADM						
Deputy Chief Officer	Peter L. Pulsifer	Geomatics and Cartographic Resea	[1](613)520-2600 x	[1](613)520-2395	pulsifer@magma.ca	http://www.carleton.ca/gcrc/caap/index.htm
NATIONAL ANTARCTIC DATA CENTRE						
SCAR DATABASE (insert name of database, if any, for which your country has responsibility)						

SCIENTIFIC HIGHLIGHTS / DELIVERABLES (with reference or contact details):

Canadian research in the Antarctic is strongly influenced by the ability of individual scientists to develop partnerships within the scientific programs of other Antarctic nations. Their assistance is greatly appreciated. The work undertaken fits within the broad categories of the three Standing Scientific Committees, but is not necessarily specific to any group or project. A comprehensive list of publications and reports arising out of Canadian work from 2006–07 will be available on the website of the Canadian Polar Commission (<http://www.polarcom.gc.ca>).

LIFE SCIENCES

Dr Kathy Conlan (Canadian Museum of Nature: kconlan@mus-nature.ca) continued as Secretary to the LS-SSG, receiving and dispersing reports for the Hobart meeting and contacting members.

Christine McClelland (Canadian Museum of Nature: cmcclelland@mus-nature.ca) studied the benthic-pelagic carbon cycle in the Larsen A and B areas of the Antarctic Peninsula, during the RV *Polarstern*'s ANTXXIII/8 cruise, and assisted in the collection of faunal samples from the Weddell Sea for EBA/CAML.

Dr Evgeny A. Pakhomov (University of British Columbia: epakhomov@eos.ubc.ca) investigated the ecology of the pelagic tunicate *Salpa thompsoni* during a cruise on the RV *Polarstern* in June–August 2006 to the Lazarev Sea as part of the German contribution to SO-GLOBEC.

Dr Brian P. V. Hunt (University of British Columbia: bhunt@eos.ubc.ca) has been analysing the seasonal cycle of macrozooplankton communities as part of the Lazarev Sea Krill Survey (LARKRIS).

Dr Phillippe Tortell (University of British Columbia: ptortell@eos.ubc.ca) is contributing to the Controls on Ross Sea Algal Community Structure (CORSACS) project. In the Ross Sea, diatoms and *Phaeocystis* compete for supremacy using different life strategies. The impact of increased carbon dioxide concentrations is being assessed. Initial results indicate that this can change the species mix and favours *Chaetoceros*, a diatom that is an adept carbon sequesterer.

Dr Jack Terhune (University of New Brunswick: terhune@unbsj.ca) is examining the geographic variation of Weddell seal underwater trill vocalizations through analysis of calls recorded at the Australian bases in eastern Antarctica, the Weddell Sea and McMurdo Sound.

Vanessa Viera, was in the field from November 2006 to April 2007 continuing the work of Dr Steeve D. Côté (Université Laval: steeve.cote@bio.ulaval.ca) in the Crozet Archipelago on the energetics of territoriality in king penguins. Several birds were equipped with heart-rate transmitters to measure energy expenditures.

Louise K Blight (University of British Columbia: l.blight@fisheries.ubc.ca) collected biological census and monitoring data on populations of penguins and other Antarctic marine birds at approximately 35 tourist-visited sites on the Antarctic Peninsula, the South Orkney Islands, and South Shetland Islands for the Antarctic Site Inventory (ASI: www.oceanites.org), continuing observations started in 1994–95. Data for the joint BirdLife International/SCAR-GEB Important Bird Areas (IBA) project were also collected; a volume describing Antarctic IBAs is in preparation.

Dr Serge Demers (Institut des sciences de la mer de Rimouski [ISMER]: serge_demers@uqar.qc.ca), in the first part of an EBA project, entitled “Combined Effects of Ultraviolet B Radiation, Increased CO₂ and Climate Warming on the Biological Pump”, developed a temporal and latitudinal study during the winter/spring 2006 onboard the Canadian R.V. Sedna IV in the vicinity of Melchior Station (64° 20'S, 62° 59'W). Damien Lopez (chemist), Sébastien Roy and Pascale Otis (biologists) were part of the wintering-over party. This collaborative study with Argentina will continue during the summer 2007–08 onboard the oceanographic ship Puerto Deseado (Argentina) in the western area of the Antarctic Peninsula. A series of mesocosms experiments will also be carried out at Esperanza Station (Argentina), on the northern tip of the Antarctic Peninsula. In December 2006, Dr Serge Demers signed a protocol with the Dirección Nacional del Antártico of Argentina providing long-term access to facilities at the Esperanza base. Dr Émilien Pelletier (ISMER: emilien_pelletier@uqar.qc.ca) is working on different aspects of the EBA research project in association with other researchers from ISMER.

PHYSICAL SCIENCES

Dr Steven D. Siciliano and Alexis N. Schafer from the University of Saskatchewan (siciliano@sask.usask.ca) are investigating the influence of liquid water on the toxicity of petroleum hydrocarbons to soil microorganisms and soil invertebrates in polar soil, and the role of denitrifying bacteria in the degradation of petroleum hydrocarbons.

Dr Martin J. Sharp (University of Alberta: martin.sharp@ualberta.ca) studied the biogeochemistry of firn, ice-shelf ice and meltwater ponds on the McMurdo Ice Shelf at Minna Bluff ice shelf.

Students on Ice (SOI/Geoff Green: geoff@studentsonice.com) led a successful expedition to the Antarctic Peninsula from 17–31 December 2007. The expedition, on board the M/S Polar Star, involved 100 students, scientists and educators from across Canada and around the world. SOI has been endorsed as the official youth expedition organization for the International Polar Year (IPY) 2007–09.

GEOSCIENCES

Dr Thomas S. James (Geological Survey of Canada: tjames@nrcan.gc.ca) participated in 5 weeks of field work in the Transantarctic Mountains in January and February of 2006, assisting with a Global Positioning (GPS) survey of crustal deformation for the Transantarctic Mountains Deformation (TAMDEF) project.

HISTORY

Gordon Macdonald (Macdonald & Lawrence Timber Framing Ltd: gord@macdonaldandlawrence.ca), Senior Building Conservator with the Antarctic Heritage Trust, led efforts to repair Shackleton's Nimrod Hut at Cape Royds. This was the third and final year of a 3-year work program to repair the historic hut.

DATA MANAGEMENT AND GEOGRAPHIC INFORMATION