

SCIENTIFIC COMMITTEE ON ANTARCTIC RESEARCH (SCAR): NATIONAL REPORTS FOR 2008-2009

MEMBER COUNTRY: BELGIUM

Activity	Contact Name	Address	Telephone	Fax	Email	web site
National SCAR Committee						
Belgian National Committee on Antarctic Research	Dr Claude De Broyer Secretary	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627.41.27	+32 2 627.42.77	cnbra-bncao@naturalsciences.be	
SCAR Delegates						
1) Delegate	Prof. Hugo Declair	Vrije Universiteit Brussel Geografisch Instituut Pleinlaan 2 B-1050 Brussels	+32 2 629.33.83	+32 2 629.33.78	hdeclair@vub.ac.be	
2) Alternate Delegate	Dr. Claude De Broyer	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627.41.27	+32 2 627.42.77	claudio.debroyer@naturalsciences.be	www.naturalsciences.be /amphi/
Standing Scientific Groups						
Life Sciences						
1)	Dr. Claude De Broyer	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627.41.27	+32 2 627.42.77	claudio.debroyer@naturalsciences.be	www.naturalsciences.be /amphi/
2)	Prof. Ann Vanreusel	Universiteit Gent Department of Biology Marine Biology Section Krijgslaan 281, S8 B-9000 Gent	+32 92 64.52.15	+32 92 64.53.44	ann.vanreusel@ugent.be	
3)	Dr. Annick Wilmotte	University of Liège Center for Protein Engineering (CIP) Institute of Chemistry, B6 Sart Tilman B-4000 Liège	+32 4 366.38.56 or +32 4 366.33.87	+32 4 366.33.64	awilmotte@ulg.ac.be	
Geosciences						
1)	Prof. Frank Pattyn	Université Libre de Bruxelles Département des Sciences de la Terre et de l'Environnement Avenue Roosevelt 50 - CP 160/03 B-1050 Brussels	+32 2 650.28.46	+32 2 650.22.26	fpattyn@ulb.ac.be	

Activity	Contact Name	Address	Telephone	Fax	Email	web site
Geosciences (cont/d) 2)	Prof. Philippe Huybrechts	Vrije Universiteit Brussel Earth System Sciences & Departement Geografie Pleinlaan, 2 B-1050 Brussels	+32 2 629 35 93 or 33 82	+32 2 629 33 78	phuybrec@vub.ac.be	
Physical Sciences 1)	Prof. Hugues Goosse	Université Catholique de Louvain Institut d'Astronomie et de Géophysique G. Lemaître Chemin du Cyclotron, 2 B-1348 Louvain-La- Neuve	+32 10 47.32.98	+32 10 47.47.22	hugues.goosse@uclouvain.be	
2)	Prof. Jean-Louis Tison	Université Libre de Bruxelles Département des Sciences de la Terre et de l'Environnement Avenue Roosevelt 50 CP 160/03 B-1050 Brussels	+32 2 650.22.16	+32 2 650.22.26	jtison@ulb.ac.be	
Antarctic Geographic Information 1)	lr. Jean-Yves Pirlot	Institut Géographique National Abbaye de la Cambre, 13 B-1050 Brussels	+32 2 629.82.20	+32 2 629.82.67	jyp@ngi.be	www.ign.be
Scientific Research Program						
ACE						
AGCS						
CIIC	Prof. Thierry Fichet	Université Catholique de Louvain Institut d'Astronomie et de Géophysique G. Lemaître Chemin du Cylotron, 2 B-1348 Louvain-la-neuve	+32 10 47.32.95	+32 10 47.47.22	thierry.fichet@uclouvain.be	clic.npolar.no

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EBA						
1)	Dr. Claude De Broyer	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627.41.27	+32 2 627.42.77	claudedebroyer@naturalsciences.be	www.naturalsciences.be /amphi/
2)	Dr. Annick Wilmotte	University of Liège Center for Protein Engineering (CIP) Institute of Chemistry, B6 Sart Tilman B-4000 Liège	+32 4 366.38.56 or +32 4 366.33.87	+32 4 366.33.64	awilmotte@ulg.ac.be	
ICESTAR						
SALE						
1)	Prof. Frank Pattyn	Université Libre de Bruxelles Département des Sciences de la Terre et de l'Environnement Avenue Roosevelt 50 - CP 160/03 B-1050 Brussels	+32 2 650.28.46	+32 2 650.22.26	fpattyn@ulb.ac.be	
Action Groups						
CAML						
1) Steering Committee	Dr Claude De Broyer	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627.41.27	+32 2 627.42.77	claudedebroyer@naturalsciences.be	www.naturalsciences.be /amphi/
2)Expert	Dr Bruno Danis	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627 41 39	+32 2 627.42.77	bruno.danis@scarmarbin.be	www.scarmarbin.be
SCAR-MarBIN						
1) Steering Committee	Dr Claude De Broyer	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627.41.27	+32 2 627.42.77	claudedebroyer@naturalsciences.be	www.scarmarbin.be
2) Steering Committee	Dr Bruno Danis	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627 41 39	+32 2 627.42.77	bruno.danis@scarmarbin.be	www.scarmarbin.be

Activity	Contact Name	Address	Telephone	Fax	Email	web site
Expert Groups						
Geosciences						
Life Sciences						
Physical Sciences						
1) Antarctic Sea-Ice and Climate (AsPect)	Prof. Jean-Louis Tison	Université Libre de Bruxelles Département des Sciences de la Terre et de l'Environnement Glaciologie Avenue Roosevelt 50 - CP 160/03 B-1050 Brussels	+32 2 650.22.16	+32 2 650.22.26	jtison@ulb.ac.be	
JCADM						
1)	Maaïke Van Cauwenbergh	Belgian Federal SPP Science Policy Rue de la Science 8 B-1000 Brussels	+32 2 238.35.42	+32 2 230.59.12	vcou@belspo.be	http://www.belspo.be/antar/
2)	Dr Bruno Danis	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627 41 39	+32 2 627.42.77	bruno.danis@scarmarbin.be	www.scarmarbin.be
National Antarctic Data Centre						
1)	Maaïke Van Cauwenbergh	Belgian Federal SPP Science Policy Rue de la Science 8 B-1000 Brussels	+32 2 238.35.42	+32 2 230.59.12	vcou@belspo.be	http://www.belspo.be/antar/
SCAR Database						
Antarctic Marine Biodiversity Information Network (SCAR-MarBIN)						
1)	Dr Claude De Broyer	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627.41.27	+32 2 627.42.77	claudedebroyer@naturalsciences.be	www.scarmarbin.be
2)	Dr Bruno Danis	IRScNB Rue Vautier, 29 B-1000 Brussels	+32 2 627 41 39	+32 2 627.42.77	bruno.danis@scarmarbin.be	www.scarmarbin.be

A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS:
Current Research Projects

<i>Subjects</i>	<i>Investigations</i>	<i>Locality</i>	<i>Duration</i>	<i>Principal investigators</i>	<i>E-mail address</i>	<i>Website</i>
Geosciences						
HOLANT Holocene climate variability and ecosystem change in coastal East and Maritime Antarctic	Reconstruction of changes in temperature and moisture balance of lakes in Antarctic coastal areas during the past 10000 years; Reconstruction of changes in the relative sea level of the regions		2005 – 2009	W. Vijverman A. Wilmotte M. De Batist D. Hodgson	wim.vyverman@ugent.be awilmotte@ulg.ac.be marc.debatist@ugent.be daho@bas.ac.uk	www.belspo.be/belspo/BePoles/science/today/act/phase6/holant_en.stm
ASPI Antarctic Subglacial Processes and Interactions	Modelling studies and Ice composition Studies applied to grounding zones, basal processes and subglacial lakes		2006 - 2010	F. Pattyn J.-L. Tison Ph. Huybrechts	fpattyn@ulb.ac.be jtison@ulb.ac.be phuybrec@vub.ac.be	www.belspo.be/belspo/BePoles/science/today/act/phase6/aspi_en.stm
Life Sciences						
BIANZO II Biodiversity of three representative groups of the Antarctic zoobenthos: Coping with change	Biodiversity patterns and processes. Experimental trophodynamics related to temperature changes. Modeling studies of community structure changes.	Weddell Sea Scotia Sea Scotia Arc	2007 - 2010	A. Vanreusel C. De Broyer P. Martin C. De Ridder P. Dauby B. David	ann.vanreusel@ugent.be claude.debroyer@naturalsciences.be patrick.martin@naturalsciences.be cridder@ulb.ac.be pdauby@ulg.ac.be bruno.david@u-bourgogne.fr	www.belspo.be/belspo/BePoles/science/today/act/phase6/bianzo2_en.stm
BELCANTO III Integrated Study of Southern Ocean Biogeochemistry and Climate Interactions in the Anthropocene	Climate change; Southern Ocean; ice-ocean biogeochemical model; Air-sea CO2 fluxes; C, N, Si, Fe cycles; Export and mesopelagic remineralisation.	Southern Ocean	2006-2010	F. Dehairs C. Lancelot L. André H. Goosse A. Borges	fdehairs@vub.ac.be lancelot@ulb.ac.be landre@vub.ac.be goosse@astr.ucl.ac.be Alberto.Borges@ulg.ac.be	www.belspo.be/belspo/BePoles/science/today/act/phase6/belcanto3_en.stm

Subjects	Investigations	Locality	Duration	Principal investigators	E-mail address	Website
Life Sciences (cont/d)						
AMBIO Antarctic Microbial Biodiversity: The importance of geographical and ecological factors	Collections and analysis of the diversity of Antarctic freshwater bacteria, cyanobacteria, green algae and diatoms. Community turnover along ecological and geographical gradients. Analysis of distribution patterns. Identification of regions of unique microbial diversity for ASPA designation.	Antarctic continent	2006-2010	A. Wilmotte W. Vyverman E. Verleyen A. Willems	awilmotte@ulg.ac.be wim.vyverman@ugent.be elie.verleyen@ugent.be anne.willems@ugent.be	www.belspo.be/belspo/BePoles/science/today/act/phase6/ambio_en.stm www.ambio.ulg.ac.be
ANTAR-IMPACT Inventory and study of the environmental impact of the Belgian station 'Princess Elisabeth'	Baseline data on the biodiversity (lichens, mosses, birds, microorganisms, invertebrates) before the construction.	Dronning Maud Land, Utsteinen nunatak and ridge	2008-2010	A. Wilmotte A. Willems W. Vyverman E. Verleyen D. Ertz B. Van De Vijver	awilmotte@ulg.ac.be anne.willems@ugent.be wim.vyverman@ugent.be elie.verleyen@ugent.be damien@br.fgov.be bart.vandevijver@br.fgov.be	www.antar-impact.ulg.ac.be
BELDIVA Exploration of the microbial diversity around the Belgian station	Database of diversity (lichens, mosses, bacteria, cyanobacteria, algae, micro-arthropods) in the region and support for management plans.	Dronning Maud Land, Sør Rondane Mountains	2009-2011	W. Vyverman E. Verleyen A. Willems A. Wilmotte D. Ertz B. Van De Vijver	wim.vyverman@ugent.be elie.verleyen@ugent.be anne.willems@ugent.be awilmotte@ugent.be Damien@br.fgov.be Bart.vandevijver@br.fgov.be	
CAML -CEAMARC	Collaborative East-Antarctic Marine Census: studies of the zoo- and phytoplankton.	Southern Ocean	2006-2010	A. Goffart J.H. Hecq	A.Goffart@ulg.ac.be JH.Hecq@ulg.ac.be	http://mersaustrales.mnhn.fr/rubriques/voir/134
COLD LIFE Cold adaptations in Antarctic microorganisms	Proteomic studies of Antarctic microorganisms. Biophysical studies of the activity, stability and conformation of enzymes from psychrophilic microorganisms	Terre Adélie Antarctic continent	unlimited	G. Feller S. D'Amico	gfeller@ulg.ac.be sdamico@ulg.ac.be	http://www2.ulg.ac.be/biochlab/

Subjects	Investigations	Locality	Duration	Principal investigators	E-mail address	Website
<p>Life Sciences (cont/d)</p> <p>PADI Pelagic Antarctic diversity: distribution and control</p>	Bioregionalisation: definition of ecological regions according to the range of plankton and fish communities that inhabit them.	Terre Adélie Eastern Antarctica Lazarev Sea	2007-2008	Anne Goffart Jean-Henri Hecq Filip Volckaert	A.Goffart@ulg.ac.be JH.Hecq@ulg.ac.be Filip.Volckaert@bio.kuleuven.be	
<p>BONUS GoodHope Physical and biogeochemical dynamics along the Greenwich Meridian (Cape Basin to 57.5 S)</p> <p>SCAR-MarBIN Antarctic Marine Biodiversity Information Network</p>	Biogeochemistry: Carbon export and mesopelagic remineralization; bioSi, silicic acid, nitrate isotopic signatures	STZ, SAZ, PFZ, northern Weddell Gyre (57.5 S) along Greenwich Meridian	2008	F. Dehairs D. Cardinal B. Delille	fdehairs@vub.ac.be Damien.cardinal@africamuseum.be Bruno.Delille@ulg.ac.be	
<p>Physical Sciences</p> <p>ice2sea</p> <p>ASTER Assessment of modelling uncertainties in long-term climate and sea level change projections</p>	3-D ice-dynamic modeling to improve the contribution of the Antarctic ice sheet to future sea-level change Production of a range of possible long-term scenarios of climate and sea level changes. Assessment of the possibility of abrupt or irreversible climate changes involving the North Atlantic thermohaline circulation, the Greenland and/or Antarctic ice sheets, and the carbon cycle.	Whole Antarctic ice sheet Global	2009-2013 2006-2010	P. Huybrechts T. Fichefet P. Huybrechts A. Mouchet	phuybrec@vub.ac.be thierry.fichefet@uclouvain.be phuybrec@vub.ac.be a.mouchet@ulg.ac.be	http://www.ice2sea.eu/ www.astr.ucl.ac.be/ASTER/

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Physical Sciences (cont/d)						
AMANDA / IceCube Neutrino Astrophysics	Galactic and extra-galactic neutrino detection using a ice-Cherenkov telescope	Amundsen-Scott Base	1997 - 2015	D. Bertrand P. Herquet C. De Clercq	bertrand@hep.ihe.ac.be Philippe.Herquet@umh.ac.be declercq@hep.ihe.ac.be	
Climatology Climate evolution of the Southern Ocean during the last millennium	Modelling with a coupled atmosphere-ocean-sea-ice model	The whole Southern Ocean	2002 - 2010	H. Goosse	hugues.goosse@uclouvain.be	
Climatology / Physical oceanography Modelling the evolution of the Southern Ocean and of its ice cover during the last 50 years	Modelling using a coupled ocean-sea-ice model driven by atmospheric reanalysis	The whole Southern Ocean	2002 - 2010	T. Fichefet H. Goosse	thierry.fichefet@uclouvain.be hugues.goosse@uclouvain.be	
Web site for description of national scientific programme activities				http://www.belspo.be/antar/		

SPECIAL SCIENTIFIC HIGHLIGHTS:

The new Belgian Station 'Princess Elisabeth' was inaugurated on 15th February 2009.

Publication of a magazine on ' Belgium and Antarctica: exploration, science and environment' (http://www.belspo.be/belspo/BePoles/doc/psf_en.pdf)