

MEMBER COUNTRY: Germany

National Report to SCAR for year: 2008/09

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National SCAR Committee						
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Chairman of National SCAR committee	Prof. Dr.-Ing. Reinhard Dietrich	Technische Universität Dresden, Institut für Planetare Geodäsie, 01062 Dresden, Germany	+49 351 463 34652	+49-351-463-37063	dietrich@ipg.geo.tu-dresden.de	http://www.scar-iasc.de
Secretary of National SCAR committee	Dr.-Ing. Hans Oerter	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1347	+49 471 4831 1271	sekretariat@scar-iasc.de	http://www.scar-iasc.de
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Standing Scientific Groups						
Life Sciences						
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4)	Prof. Dr. Angelika Brandt	Zoological Museum, University of Hamburg, Martin-Luther-King-Pl.3, 20146 Hamburg, Germany	+49-40-42838- 2278	+49-40-42838- 393	abrandt@zoologie.uni-hamburg.de	http://www.uni-hamburg.de/fachbereiche-einrichtungen/biologie/
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Activity	Contact Name	Address	Telephone	Fax	Email	Website
Scientific Research Program						
Antarctic Climate Evolution (ACE)						
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Radio echo sounding	Dr. Detlef Damaske	Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Stilleweg 2, 30655 Hannover, Germany	+49-511-643-2692	+49-511-643-3663	d.damaske@bgr.de	http://www.bgr.de
Antarctica and the Global Climate System (AGCS)						
National contact partner for AGCS	Dr. Eberhard Fahrbach	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1820	+49-471-4831-1797	Eberhard.Fahrbach@awi.de	http://www.awi.de
Evolution and Biodiversity in the Antarctic (EBA)						
Member	Prof. Dr. Angelika Brandt	Zoological Museum, University of Hamburg, Martin-Luther-King-Pl.3, 20146 Hamburg, Germany	+49-40-42838-2278	+49-40-42838-393	abrandt@zoologie.uni-hamburg.de	http://www.uni-hamburg.de/fachbereiche-einrichtungen/biologie/
WP4	PD Dr. Julian Gutt	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1333	+49-471-4831-1918	Julian.Gutt@awi.de	www.awi.de
WP1	Dr. Brigitte Hilbig	Ruhr-Universität Bochum, Universitätsstr. 150/ Geb. ND05/753, 44780 Bochum, Germany			bhilbig@senckenberg.de	
Interhemispheric Conjugacy Effects in Solar-Terrestrial Aeronomy Research (ICESTAR)						

Subglacial Antarctic lake Environments (SALE)						
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ACTION GROUPS:						
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Acoustics in the Marine Environment	Dr. Olaf Boebel	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1879	+49-471-4831-1797	Olaf.Boebel@awi.de	http://www.awi.de
Sub-Ice Geological Exploration (SIGE)	Dr. Detlef Damaske	Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Stilleweg 2, 30655 Hannover, Germany	+49-511-643-2692	+49-511-643-3663	d.damaske@bgr.de	
Continuous Plankton Recorder (CPR)	Prof. Dr. Ulrich Bathmann	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1275	+49-471-4831-1149	Ulrich.Bathmann@awi.de	http://www.awi.de
Biological Monitoring						
Census of Antarctic Marine Life (CAML)	PD Dr. Julian Gutt	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1333	+49-471-4831-1918	Julian.Gutt@awi.de	http://www.awi.de
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Marine Biodiversity Information Network (MarBIN)	Dr. Christian Schäfer-Neth	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1554	+49-471-4831-1590	Christian.Schaefer-Neth@awi.de	http://www.awi.de

Pan-Antarctic Observing Network (PAntOs)	Dr. Eberhard Fahrbach	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1820	+49-471-4831-1797	Eberhard.Fahrbach@awi.de	http://www.awi.de
Cross-SSG Action Group on Prediction of Changes in the Physical and Biological Environment of the Antarctic (PCBEA)	PD Dr. Julian Gutt	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1333	+49-471-4831-1918	Julian.Gutt@awi.de	http://www.awi.de
ECA other (specify)						

Function / Group / Project	Contact Person (Name)	Address	Telephone	Fax	Email	other information (e.g. website URL)
EXPERT GROUPS						
Geodetic Infrastructure for Antarctica (GIANT)						
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Project 2 "Epoch Crustal Movement Campaigns"	Prof. Dr.-Ing. R. Dietrich	Technische Universität Dresden, Institut für Planetare Geodäsie, 01062 Dresden, Germany	+49-351-463-34652	+49-351-463-37063	dietrich@ipg.geo.tu-dresden.de	http://www.tu-dresden.de/ipg
Project 3 "Physical Geodesy"	Dr. Mirko Scheinert	Technische Universität Dresden, Institut für Planetare Geodäsie, 01062 Dresden, Germany	+49-351-463-33683	+49-351-463-37063	scheinert@ipg.geo.tu-dresden.de	http://www.tu-dresden.de/ipg
Permafrost and Periglacial Environments (PPE)						
International Bathymetric Chart of the Southern Ocean (IBCSO)	Dr.-Ing. H.-W. Schenke	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1977	+49-471-4831-1977	Hans-Werner.Schenke@awi.de	www.awi.de
Antarctic Digital Magnetic Anomaly Project (ADMAP)	Dr. Detlef Damaske	Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Stilleweg 2, 30655 Hannover, Germany	+49-511-643-2692	+49-511-643-3663	d.damaske@bgr.de	
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Birds and Marine Mammals	Dr. Hans-Ulrich Peter	Friedrich-Schiller-Universität Jena, AG Polar- & Ornitho-Ökologie, Dornburger Straße 159, 07743 Jena, Germany	+49 3641 949 415	+49 3641 949 402	Hans-Ulrich.Peter@uni-jena.de	http://www.uni-jena.de

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Human Biology and Medicine (HB&M)						
Antarctic Astronomy and Astrophysics (AAA)						
Ice Sheet Mass Balance and Sea Level (ISMSS)	Dr.-Ing. Hans Oerter	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1347	+49 471 4831 1271	Hans.Oerter@awi.de	http://www.awi.de
International Trans-Antarctic Scientific Expedition (ITASE)	Dr.-Ing. Hans Oerter	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1347	+49 471 4831 1271	Hans.Oerter@awi.de	http://www.awi.de
Operational Meteorology (OpMet)	Dr. G. König-Langlo	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	0049-471-4831-1806		Gert.Koenig-Langlo@awi.de	www.awi.de
Oceanography (OCEAN)	Dr. Eberhard Fahrbach	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1820	+49-471-4831-1797	Eberhard.Fahrbach@awi.de	http://www.awi.de
Ice Drilling Technology (DRILL)	Prof. Dr. Frank Wilhelms	Alfred Wegener Institut für Polar- u. Meeresforschung, Postfach 12 01 61, 27515 Bremerhaven, Germany	+49-471-4831-1551	+49 471 4831 1271	Frank.Wilhelms@awi.de	http://www.awi.de

Activities	Contact Name	Address	Telephone	Fax	Email	Website
STANDING COMMITTEES (SC)						
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SC-AGI	Dr. Steffen Vogt	Albert-Ludwigs-Universität Freiburg, Institut für Physische Geographie, Werderring 4, 79085 Freiburg, Germany	0049-761-203-3553	0049-761-203-3596	steffen.vogt@geographie.uni-freiburg.de	
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SC-Antarctic Data Management						
NATIONAL ANTARCTIC DATA CENTRE						
Database of the SCAR Epoch Crustal Movements Campaigns	Prof. Dr.-Ing. R. Dietrich	Technische Universität Dresden, Institut für Planetare Geodäsie, 01062 Dresden, Germany	+49-351-463-34652	+49-351-463-37063	dietrich@ipg.geo.tu-dresden.de	http://www.tu-dresden.de/ipg/service/scargps/database.html
SCAR King George Island GIS (SCAR KGIS)	Dr. Steffen Vogt	Albert-Ludwigs-Universität Freiburg, Institut für Physische Geographie, Werderring 4, 79085 Freiburg, Germany	+49-761-203-3553	+49-761-203-3596	steffen.vogt@geographie.uni-freiburg.de	http://www.kgis.scar.org
SCAR DATABASE (insert name of database, if any, for which your country has responsibility)						

A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS:

ACE						
Gersonde						
AGCS						
Fahrbach	<p>The German contribution to AGCS consisted in the ongoing analysis of data from the Atlantic sector of the Southern Ocean collected in 2008 where significant variations of the watermass properties are ongoing. They affect all water masses which are involved in the meridional overturning process and in consequence are beyond local interest. However, the regional patterns and the dominating multi-annual to decadal variations provide still problems to identify a correlation to climate change. The development of a Southern Ocean Observing System (SOOS) was advanced by deployment of under-ice floats and moored instruments. Furtheron, Germany contributed to the ITASE synthesis workshop 2008. Analysis of snow and ice samples from Dronning Maud Land continued in order to describe recent and past climate change in this region.</p>					
ICESTAR						
nothing						
EBA						
Brandt	<p>EBA (Evolution and Biodiversity in the Antarctic) covers a broad range of biological topics ranging from terrestrial realms to the marine and there from surface waters to the deep-sea environments. The science of EBA covers the evolutionary history of Antarctic organisms, evolutionary adaptation of organisms to the Antarctic environment, patterns of gene flow and consequences for population dynamics (e.g. isolation as a driving force), patterns and diversity of organisms, ecosystems and habitats in the Antarctic including the controlling processes, impact of past, current and predicted future environmental change on biodiversity and ecosystem function. The IPY has improved cooperation across nations including a comprehensive cross-disciplinary approach to polar science.</p>					
SALE						
Mayer	<p>New simulations of subglacial Lake Vostok show that about 11000 km² or 64% of the lake surface are covered by refrozen lake ice. The mean thickness is about 90 m and the volume is about 1000 km³. The refined circulation model was applied to two other subglacial lakes: Lake Ellsworth and Lake Concordia, which allows a characterisation of the circulation conditions for different size classes of lakes. A German/Belgium collaboration develops a coupled model of subglacial lake circulation and high resolution ice dynamics, based on a higher order model. The aim is to investigate the temporal development of accretion ice in subglacial Lake Vostok. This project is funded for the German part by a Deutsche Forschungsgemeinschaft project for two years (2009/2010). At subglacial Lake Vostok further field work was carried out to investigate the stability of the ice/lake regime based on DGPS surveys.</p>					