

MEMBER COUNTRY: Brazil

(Only needed if different from the those listed on the SCAR web site <http://www.scar.org>)

2007-08

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National SCAR Committee (CoNaPA)	Dr. Maria Cordélia Soares Machado	Ministério de Ciência e Tecnologia, SEPED Esplanada dos Ministérios, Bloco E, sala 235 CEP 70067-900, Brasília/DF, Brazil.	55 61 3317 7854	55 61 3317 7766	mmachado@mct.gov.br	www.mct.gov.br
1) Delegate (CoNaPA)	Prof.º Antônio C. Rocha Campos	Instituto de Geociências - Universidade de São Paulo Rua do Lago 562 - CEP 05508-900 - São Paulo/SP, Brazil.	55 11 818 4125		acrcampo@usp.br	
2) Alternate Delegate (CoNaPA)	Dr. Jefferson Cardia Simões	Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	jefferson.simoes@ufrgs.br	www.ufrgs.br/nupac
Standing Scientific Groups						
Life Sciences						
(CoNaPA)	1) Dra. Lucélia Donatti (Dra. Edith Susana E. Fanta - in	Universidade Federal do Paraná Departamento Biologia Celular Jardim das Américas Caixa Postal 19031 81531-970, Curitiba, PR - Brazil.	55 41 3361 1689 55 41 3367 7653	55 41 3266 2042 55 41 3367 2239	donatti@ufpr.br	
(CoNaPA)	2) Dr. Lúcia de Siqueira Campos	Universidade Federal do Rio de Janeiro, IB, Depto de Zoologia, CCS, Bl 'A', sala A0-124, Av. Rodolpho P. Rocco 211, CEP 21941-590, RJ/RJ, Brazil.	55 21 2562 6369	55 21 2560 5993	campos-lucia@biologia.ufrj.br	
	3) Dr. Helena Gonçalves Kawall	Centro Universitário Campos de Andrade, Departamento Biologia Rua João Negrão 1285 80230-160 Curitiba, PR - Brazil	55 41 3350 7700	55 41 3219 4290	hkawall@osite.com.br	
	4) Dr. Vivian Helena Polizari	Universidade de São Paulo - Ciências Biomédicas - Departamento de Microbiologia Av. Prof. Lineu Prestes 1374 - IC BII, And.1, Sala 148 - 05508-900 São Paulo, SP-Brazil	55 11 3091 7205	55 11 3091 7354	vivianp@usp.br	
Geosciences						
(CoNaPA)	1) Dr. Luiz Antônio P. Gamboa	Departamento Geologia, UFF - Campus da Praia Vermelha, Av. Litorânea - CEP 24360-120, Niterói/RJ, Brazil.	55 21 2534 2997		gamboa@petrobras.com.br	
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	3) Dr. Paulo Roberto Santos	Instituto de Geociências - USP. Rua do Lago. 562. CEP: 05508-080, São Paulo/SP, Brazil	55-11-30914119		dosantos@usp.br	
	4) Dr. Rudolfo Trouw	Instituto de Geociências, Departamento de Geologia – UFRJ. Av. Brigadeiro Trompowski, Prédio CCMN – IGEO, Ilha do Fundão, Rio de Janeiro/RJ, CEP: 21910-900, Brazil	55 21 25989482		rajtrouw@hotmail.com	
Physical Sciences						
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(CoNaPA)	2) Dr. Neusa M. Paes Leme	Instituto Nacional de Pesquisas Espaciais - DGE / CEA / INPE Av. dos Astronautas, 1758 São José dos Campos, SP 12227-010 Brazil	55 12 3945 6047/ 6870	55 12 39229887	nleme@dge.inpe.br	www.dge.inpe.br/ozonio
(CoNaPA)	3) Dr. Carlos A. E. Garcia	Departamento de Física da FURG, Rua Alfredo Huch, 475, Centro, Rio Grande/RS, 96200-900, Brasil	55 53 3233 6643		dfsgar@furg.br	
	4) Dr. Heitor Evangelista	Centro Biomédico, Departamento de Biofísica e Biometria, Pavilhão Haroldo Lisboa da Cunha, LARAG, Av. São Francisco Xavier 524, Maracanã, Rio de Janeiro/RJ, CEP: 20550013, Brazil	55 21 25689664		heitor@uerj.br	
	5) Dr. Emilia Correia	CRAAM / INPE - Instituto Presbiteriano Mackenzie Rua da Consolação 930, 01302-907, São Paulo, SP Brazil	55-11-21148696	55-11-32142300	ecorreia@craam.mackenzie.br	
Scientific Research Program						
ACE - Antarctic Climate Evolution						
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	2) Dr. Paulo Roberto Santos	Instituto de Geociências USP. Rua do Lago. 562. CEP: 05508-080	55-11-30914119		dosantos@usp.br	

AGCS - Antarctica and the Global Climate System						
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	2) Dr. Alberto W. Setzer	INPE/CPTec C.Postal 515 - 12245-970 São José dos Campos, SP- BRAZIL	55 12 3945 6464	5512 3945 6452	asetzer@cpotec.inpe.br	http://www.cptec.inpe.br/antartica
	3) Dr. Ilana Wainer	Departamento de Oceanografia Física Instituto Oceanográfico - Universidade de São Paulo Praça do Oceanográfico 191 - São Paulo, SP - BRASIL_05508-120	55 11 3091 6581	55 11 3091 6610	wainer@usp.br	
	4) Francisco E. Aquino	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	francisco.aquino@ufrgs.br	www.ufrgs.br/nupac
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EBA - Evolution and Biodiversity in the Antarctic						
	1) Dra. Lucélia Donatti (Dra. Edith Susana E. Fanta - in memoriam)	Universidade Federal do Paraná Departamento Biologia Celular Jardim das Américas - Caixa Postal 19031- 81531-970, Curitiba, PR - Brazil.	55 41 3361 1689 55 41 3367 7653	55 41 3266 2042 55 41 3367 2239	donatti@ufpr.br	
	2) Dr. Lúcia de Siqueira Campos	Universidade Federal do Rio de Janeiro, IB, Depto de Zoologia, CCS, Bl 'A', sala A0-124, Av. Rodolpho P. Rocco 211, CEP 21941-590, RJ/RJ, Brazil.	55 21 2562 6369	55 21 2560 5993	campos-lucia@biologia.ufrj.br	
	3) Dr. Helena Gonçalves Kawall	Centro Universitário Campos de Andrade, Departamento Biologia Rua João Negrão 1285 80230-160 Curitiba, PR - Brazil	55 41 3350 7700	55 41 3219 4290	hkwall@osite.com.br	
	4) Dr. Vivian Helena Polizari	Universidade de São Paulo - Ciências Biomédicas -Departamento de Microbiologia Av. Prof. Lineu Prestes 1374 -IC BII, And.1, Sala 148 - 05508-900 São Paulo, SP-Brazil	55 11 3091 7205	55 11 3091 7354	vivianp@usp.br	
	5) Dr. Phan Van Ngan	Instituto Oceanográfico da Universidade de São Paulo, Departamento de Oceanografia Biológica, Praça do Oceanográfico, 191; Cidade - Universitária, Butantã, CEP05508-900, São Paulo, SP.	55 11 30916561/ 30916560 / 30916548		phanvn@usp.br	
	6) Dr. Vicente Gomes	Instituto Oceanográfico da Universidade de São Paulo, Departamento de Oceanografia Biológica, Praça do Oceanográfico, 191; Cidade - Universitária, Butantã, CEP05508-900, São Paulo, SP.	55 11 30916561; 30916560 e 30916548		vicgomes@usp.br	
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ICESTAR - Solar-Terrestrial and Aeronomy Research						
	1) Dr. Emília Correia	CRAAM / INPE - Instituto Presbiteriano Mackenzie Rua da Consolação 930, 01302-907, São Paulo, SP Brazil	55-11-21148696	55-11-32142300	ecorreia@craam.mackenzie.br	
	2) Dr. Jean-Pierre Raulin	CRAAM-Escola Engenharia Elétrica- Universidade Presbiteriana Mackenzie, Rua da Consolação 930, 01302-907, São Paulo, SP Brazil	55 011 21148697	011 21 14 23 00	rauljin@craam.mackenzie.br	
	3) Dr. Hisao Takahashi	Instituto Nacional de Pesquisas Espaciais - DAE/CEA /INPE Av. dos Astronautas,1758 São José dos Campos,SP 12227-010, Brazil	55 12 3945 7145		hisatok@dae.inpe.br	www.dae.inpe.br
	4) Dr. Delano Gobbi	Instituto Nacional de Pesquisas Espaciais - DAE/CEA /INPE Av. dos Astronautas,1758 São José dos Campos,SP 12227-010, Brazil	55 12 3945 7145		ppbatsita@laser	www.dae.inpe.br
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SALE - Subglacial Antarctic Lake Environments						
	1) Dr. Jefferson Cardia Simões	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	jefferson.simoes@ufrgs.br	www.ufrgs.br/nupac
	2) Dr. Vivian Helena Pellizari	Universidade de São Paulo - Ciências Biomédicas - Departamento de Microbiologia Av. Prof. Lineu Prestes 1374 - IC BII, And.1, Sala 148 - 05508-900 São Paulo, SP-Brazil	55 11 3091 7205	55 11 3091 7354	vivianp@usp.br	
ACTION GROUPS						
GEO INFO - Geospatial Information						
	1) Dr. Noberto Dani	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	noberto.dani@ufrgs.br	
	2) Dr. Jorge Arigony Neto	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	arigony@googlemail.com	www.ufrgs.br/nupac

GIANT - Geodetic Infraestructure of Antarctic						
IBCSO - Int. Bathymetric Chart Southern Ocean						
ADMAP - Antarctic Digital Magnetic Project						
ANTEC - Antartic Neotectonics						
	1)Dr. Rudolfo Trouw	Instituto de Geociências, Departamento de Geologia – UFRJ. Av. Brigadeiro Trompowski, Prédio CCMN – IGEO, Ilha do Fundão, Rio de Janeiro/RJ, CEP: 21910-900, Brazil	55 21 25989482		rajtrouw@hotmail.com	
	2) Dr. André Ferrari	Instituto de Geociências, Departamento de Geologia – UFRJ. Av. Gal. Milton Tavares de Souza, s/n - Campus da Praia Vermelha Boa Viagem - Niteroi - RJ CEP: 24.210-340	55 21 2629-5944		andre@geo.uff.br	
Birds						
	1) MSc. Martin Sander	Universidade do Vale do Rio dos Sinos - Av Unisinos, 950 93022000 - São Leopoldo - RS - Brasil	55-51-35911100 Ramal: 2240 ou 1203 ou 1201	55-51-35911266	sander@unisinos.br	http://www.unisinos.br/diversos/laboratorios/ornitologia-e-animais-marinhos/
	2) Dra Maria Virgínia Petry	Universidade do Vale do Rio dos Sinos - Av Unisinos, 950 93022000 - São Leopoldo - RS - Brasil	55-51-35911100 Ramal: 2240 ou 1203 ou 1201	55-51-35911266	vpetry@unisinos.br	
	3) Dra Maria Alice dos Santos Alve	Universidade Estadual do Rio de Janeiro - Instituto de Biologia - Depto de Ecologia - Rua São Francisco Xavier, 524, Maracanã, RJ/RJ, 20550-011, Brazil	55 21 96049447	55 21 25877328	masa@uerj.br	
	4) MSc Erli Costa	Universidade Federal do Rio de Janeiro, Instituto de Biologia, Programa de Pós-Graduação em Ecologia, Caixa Postal 68020, Ilha do Fundão, RJ/RJ, CEP 21941-540, Brazil	55 21 38523362	55 21 38523362	erli_costa@yahoo.com.br	
Seals						
	1) Dr. Monica Mathias Costa Muelbert	Fundação Universidade Federal do Rio Grande, Departamento de Oceanografia Laboratório de Mamíferos Marinhos e Tartarugas Marinhas Caixa Postal 474 96200-970 Rio Grande, RS -Brazil	55 53 3233 6503	55 53 3233 6601	mamiferos@super.furg.br	
	2) Dr. Emygdio Leite de Araújo M. Filho	Universidade Federal do Paraná Departamento de Zoologia Centro Politécnico 81531-990 Curitiba, PR - Brazil	55 41 3361 1641	55 41 3266 2042	elamf@ufpr.br	
Human Bio - Human Biology and Medicine						
	1) Dr. Marilza Vieira Cunha Rudge	Faculdade de Medicina de Botucatu, Departamento de Ginecologia e Obstetria - Unesp. Rubião Júnior, CEP: 18600000 - Botucatu, SP - Brazil	55 14 38116140		mrudge@fmb.unesp.br	
	2) Dr Geny de Oliveira Cobra	Fundação Oswaldo Cruz, Escola Nacional de Saúde Pública, Saúde e Ambiente, Espaço e Situação Sujeito, Departamento de Meio Ambiente e Saúde, Rua Leopoldo Bulhões, 1480, 5.andar, Manguinhos, RJ/RJ, 21041-210, Brazil	55 21 22650163		geny.cobra@gmail.com	
AAA - Antarctic Astronomy and Astrophysics						
	1) Dr. Jean-Pierre Raulin	CRAAM-Escola Engenharia Elétrica- Universidade Presbiteriana Mackenzie, Rua da Consolação 930. 01302-907, São Paulo, SP Brazil	55 011 21148697	55 11 2114 2300	raulin@craam.mackenzie.br	
Oceans - SCAR and Oceanography						

	1) Dr. Carlos A. E. Garcia	Departamento de Física da FURG, Rua Alfredo Huch, 475. Centro, Rio Grande/RS, 96200-900, Brasil	55 53 3233 6643		dfsgar@furg.br	
	2) Dr. Ilana Wainer	Departamento de Oceanografia Física Instituto Oceanográfico - Universidade de São Paulo Praça do Oceanográfico 191 São Paulo, SP - BRASIL 05508-120	55 11 3091 6581	55 11 3091 6610	wainer@usp.br	
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	4) Dr. Mauricio M. Mata	Departamento de Física, Fundação Universidade Federal do Rio Grande (FURG), Rua Alfredo Huch 475, Rio Grande (RS), 96201-900, Brazil	55 53 32336879	55 53 32336652	mauricio.mata@furg.br	http://goal.ocfis.furg.br
Op Met - Operational Meteorology in Antarctic						
	1) Dr. Alberto W. Setzer	Alberto Setzer INPE/CPTec C.Postal 515 12245-970 São José dos Campos, SP - BRAZIL	55 12 3945 6464	5512 3945 6452	asetzer@cptec.inpe.br	http://www.cptec.inpe.br/antartica
	2) Francisco E. Aquino	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	francisco.aquino@ufrgs.br	www.ufrgs.br/nupac
ISMAS - Ice Sheet Mass Balance and Sea Level						
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ITASE - International Trans-Antarctic Scient. Expedition						
	1) Dr. Jefferson Cardia Simões	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	jefferson.simoies@ufrgs.br	www.ufrgs.br/nupac
ASPECT - Antarctic Sea-Ice Processes and Climate						
	1) Francisco E. Aquino	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	francisco.aquino@ufrgs.br	www.ufrgs.br/nupac
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DRILL - Ice Drilling Technology						
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	2) Dr. Ronaldo Torma Bernardo	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	ronaldo.bernardo@ufrgs.br	www.ufrgs.br/nupac
EXPERT GROUPS						
Comms - Communications and Outreach						
Marine Surv - Marine Survey Coordination						
Acoustics - Acoustics in the Marine Environment						

	1) Dr. Lauro A. Saint Pastous Madureira	Fundação Universidade Federal do Rio Grande, Departamento de Oceanografia, Laboratório de Tecnologia Pesqueira Av. Itália km8 96203-900 Rio Grande, RS -Brazil	55 53 3233 6555	55 53 3233 6601	docism@super.furg.br	
Bio-Monitor - Biological Monitoring						
	1) Dra. Lucélia Donatti (Dra. Edith Susana E. Fanta - in memorian)	Universidade Federal do Paraná Departamento Biologia Celular Jardim das Américas Caixa Postal 19031 CEP81531-970, Curitiba/PR, Brazil.	55 41 3361 1689 55 41 3367 7653	55 41 3266 2042 55 41 3367 2239	donatti@ufpr.br	
	2) Dr. Edson Rodrigues	Universidade de Taubaté Instituto Básico Biotecnologia Av. Tiradentes 500 12030-010 Taubaté, SP-Brazil	55 12 3635 4914		edsonrod@unitau.br	
CAML - Census of Antarctic Marine Life						
	1) Dr. Lúcia de Siqueira Campos	Universidade Federal do Rio de Janeiro, IB, Depto de Zoologia, CCS, Bl 'A', sala A0-124, Av. Rodolpho P. Rocco 211, CEP 21941-590, RJ/RJ, Brazil.	55 21 2562 6369	55 21 2560 5993	campos-lucia@biologia.ufrj.br	www.caml.aq
	2) Dr Cristina Nakayama	Universidade de São Paulo, Instituto de Biotecnologia,			crnakayama@gmail.com	
	3) MSc Erli Costa	Universidade Federal do Rio de Janeiro, Instituto de Biologia, Programa de Pós-Graduação em Ecologia, Caixa Postal 68020, Ilha do Fundão, RJ/RJ, CEP 21941-540, Brazil	55 21 38523362	55 21 38523362	erli_costa@yahoo.com.br	
READER - Reference Antarctic Data for Environment Res.						
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ATAC - Antarctic Tropospheric-Ionospheric Coupling						
	1) Dr. Neusa Paes Leme	Instituto Nacional de Pesquisas Espaciais - DAE/CEA/INPE Av. dos Astronautas, 1758 São José dos Campos, SP 12227-010, Brazil	55 12 3945 6047		nleme@dge.inpe.br	www.inpe.br/antartica
	1) Dr. Hisao Takahashi	Instituto Nacional de Pesquisas Espaciais - DAE/CEA/INPE Av. dos Astronautas, 1758 São José dos Campos, SP 12227-010, Brazil	55 12 3945 7445		hisaoatak@dae.inpe.br	www.dae.inpe.br
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K George I - Coordination Activities King George Is.						
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JCADM - Joint SCAR/COMNAP Committee on Antarctic Data Management						
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NATIONAL ANTARCTIC DATA CENTRE						

SCAR DATABASE						
Admiralty Bay GIS, King George Island						
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	2) Dr. Jefferson Cardia Simões	Núcleo de Pesquisas Antárticas e Climáticas Instituto de Geociências - Universidade Federal do Rio Grande do Sul - Av. Bento Gonçalves 9500 - 91501 - Porto Alegre, RS - Brazil	55-51-33167327	55-51- 33167324	jefferson.simoese@ufrgs.br	
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A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS:

Atmospheric research

- "New Diagnoses of the Geospace Anomalies and their effects in the Polar, Regional and Global Earth Atmosphere" - Project in collaboration with Mackenzie University. It consists in monitoring the solar phenomena and the income particles in the Earth atmosphere, which can damage the satellites as well as change their orbit, can produce blackouts in the telecommunications and climate changes. "Mesospheric temperature monitoring in the Antarctic region" - Observations of the mesospheric temperature, region of the high atmosphere (90 km of altitude), for investigating the dynamics and coupling processes between the lower and upper atmosphere. "
- Study of the Ozone and UV Radiation in the Antarctic and South America - Ozone layer monitoring in the Antarctic and South America region launching ozonsondes on meteorological balloons and the total ozone detected by ground-base and satellites measurements. Study of the UV radiation mostly during the Ozone Hole, where the ozone concentration have severe depletion, with 80% the ozone loss. Project in collaboration with Magallanes University, Chile.
- The project MST – ASA is a study of the Mesosphere-Stratosphere-Troposphere using different techniques in the Antarctic region and South America. This cooperation will be directed toward ground-based experimental campaigns, with Radar, LIDAR, Spectrophotometers, radiometers, NILU, ECC sonde technique launched on balloons, to increase understanding of the Antarctic atmosphere and the teleconnection to South America.

Within the Brazilian Antarctic Programme and with other countries participation, a joint project is proposed to act in the investigation in integrated research lines: Stratospheric Ozone Depletion, Dynamical coupling from troposphere – stratosphere to mesosphere, Effects of gravity, tidal and planetary waves on the Polar atmosphere circulation system and Vortex and on Earth's climate. UV radiation. Ferraz for characterization of the planetary waves associated with polar vortex. f) Monitor the minor gases and green house gases, in Brazilian Antarctic Station (eg.: N₂O, O₃, CFCs and CH₄). g) Integrate simultaneous numerical transport models and back trajectories analysis. Monitor the stratospheric and tropospheric ozone, temperature, pressure, humidity and winds by ozone soundings and LIDAR and automatic weather stations. UV radiatio impact
- "Antarctic Meteorology" Project in collaboration with University of Rio Grande do Sul (UFRGS), studies the effects of Antarctica in the Brazilian weather and the climatic variation in the Antarctic Peninsula; it also maintains three automatic weather stations and supports PROANTAR with weather data and forecasts.
- Studies of the Ice and Atmosphere Relation - Project in collaboration with University of Rio de Janeiro (UERJ). It evaluates the level and the type of pollution of tropical origin and that it arrives at Antarctica, through analyses of Antarctic ice sample.
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- A soil survey was carried out at Byers Peninsula, in Livingstone island, during the 2006/2007 summer. This way, great part of the most expressive ice-free areas of maritime Antarctica have being surveyed and mapped. The most representative soils in maritime Antarctica have been analyzed. Adaptations to the main international soil classification systems have been proposed in face of the peculiar characteristics of soils from this part of Antarctica, specially the ornithogenic and acid sulphate Cryosols. Aerial photographic surveys have allowed the construction of ortho-rectified mosaics, generating cartographic base in an adequate scale for mapping terrestrial environments of maritime Antarctica. Advances were also made regarding soils organic carbon stocks and dynamics as well and their relation with faunal activity and plant communities. During 2006, the results of researches in progress since 2002 have been published in international journals of recognized importance in the soil science and geochemistry fields
- VLF radio waves have been used to study the variations in the lower ionosphere (D-layer). This region is maintained by the solar Lyman-alpha emission, but is highly disturbed by enhancements of X-ray emission during solar flares (Raulin et al, 2006), and also by electron precipitation events from the radiation. These disturbances produce changes in the ionization rates, and consequently in the D-region parameters, conductivity gradient (_ - km-1) and reference height (H' – km), which govern the refractive index. Thus VLF amplitude and phase are sensitive to changes in the electrical conductivity of the lower ionosphere, and thus can be used to probe ionospheric changes. Long data series are necessary to investigate the long term trends of the ionosphere as a function of the solar cycle (Raulin et al, 2006) and of its variations, which will compliment the vertical and oblique sounding performed with HF radars.

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10. The South America VLF Network (SAVNET) has receivers located at: Piura/Peru (5.2oS, 80.5oW), Punta Lobos/Peru (12.5o S, 76.8o W), Palmas/Brazil (10.17o S, 49.34o W), Santa Maria/Brazil (29.72o S, 53.72o W), CASLEO/Argentina (31.5o S, 68.5o W), São Paulo/Brazil (23.2o S, 46.5o W) and at the Brazilian Antarctic Station (Fig. YYY), Comandante Ferraz (62.1 oS, 58.4 oW). Other participating Southern hemisphere VLF receivers, administered by the Hermanus Magnetic Observatory in cooperation with the University of Kwa-Zulu-Natal in South Africa are located on Marion Island (46.88 oS, 37.86 oE) and at SANAE-IV (71.67 oS, 2.84 oW) in Antarctica. These ionospheric soundings are important to characterize the impacts of the space weather in the ionosphere and its influence in the actual climate changes

Oceanographic research

1. The Southern Ocean Studies for Understanding Global-CLIMATE Issues (SOS-Climate) is the main Brazilian contribution in the oceanography field to the International Polar Year. The "SOS-Climate" overall objective is to conduct scientific investigations in the Southern Ocean which are related to global climate change. The project is inserted in following IPY full proposals: Synoptic Antarctic Shelf-Slope Interactions Study (SASSI), Collaborative Research into Antarctic Calving and Iceberg Evolution (CRAC-ICE), Integrated analyses of circumpolar Climate interactions and Ecosystem Dynamics in the Southern Ocean-International Polar Year (ICED-IPY) and Climate of Antarctica and the Southern Ocean - Ocean Circulation Cluster (CASO). We have been conducting oceanographic cruises in the Brazil-Malvinas Confluence (BMC) zone, Argentinean Patagonia shelf-break and around the Antarctic Peninsula.

2. In situ, 4-year long studies performed over the BMC region had resulted in a good understanding of the synoptic mechanisms of atmosphere-ocean coupling at this region of world ocean. It has been demonstrated that, in the absence of large-scale meteorological perturbations, the intense gradients of sea surface temperature found between waters from the Brazil (warm) and Malvinas/Falkland (cold) produce, respectively, higher (lower) turbulent heat fluxes combined to a instable (stable) atmospheric boundary layer. Stronger winds blow over the warmer waters of the Brazil Current while weaker winds blow over the cold portion of the BMC region. Multi-sensor remote sensing data have also been used in order to track and characterize the spatial mesoscale activity of the BMC region including the computation of eddy energetics and life span. Observed data is at the moment being assimilated into both meso and large scale atmospheric models aiming to improve our weather prediction capability for the southern region of Brazil.

3. In the Patagonia shelf-break, conspicuous phytoplankton blooms support important fishery activities and have a significant impact on atmosphere-ocean CO₂ exchange, but in-situ studies are scarce in the region. Our five campaigns resulted in the following findings: (a) large diatoms and dinoflagellates dominate in spring, followed by coccolithophorids (calcite producing microalgae) in summer; (b) surface and deep waters of the Malvinas Current supply the main nutrients to the shelf-break blooms; (c) primary productivity rates are comparable with very productive world ocean regions; (d) the shelf-break is an important region of CO₂ uptake; (e) a significant fraction of micro-particles blown from the Patagonian desert towards the continental shelf is iron-enriched, despite the low total iron flux.

4. In the Bransfield Strait, analysis of thermohaline data showed that, despite some interannual variability, there has been a freshening of deep and bottom waters over the last 3 decades in the central basin, in agreement with observations in the Australian sector of the Southern Ocean. If this is confirmed in other areas, that freshening may indicate that the climate change signal is already propagating to the deep ocean and thus is likely to affect the general ocean circulation.

5. The role of the Antarctic Intermediate and Bottom Water in the sequestration of anthropogenic CO₂ in the 21st century projections was investigated with the NCAR-CCSM model. Results show that although intermediate water masses are formed in lighter density classes, formation rates (calculated through the subduction at the deepest mixed layer) do not. Therefore, CO₂ uptake rates are not expected to change within the NCAR-CCSM framework.

Biological research

1. Biological research on the Environmental Management in Admiralty Bay, King George Island, Antarctica, was carried out by a web of research groups belonging to different Universities and Research Institutes in Brazil. The main purpose was to better know the ecology of the Admiralty Bay and to detect the eventual effects that human activities would have on this ecosystem. In the terrestrial environment, plant communities in ice melting areas adjacent to Admiralty Bay were analysed (A.B. Pereira batista@ulbra.tche.br, Brazil's Lutheram University – ULBRA). In the marine environment there was implemented a strategy for the assessment of environmental impact on the coastal shallow water benthic fauna (LS Campos campos-lucia@biologia.ufrj.br, Federal University of Rio de Janeiro – UFRJ), and the structure of gababenthos communities studied (T N Corbisier tncorbis@usp.br, Oceanographic Institute of the University São Paulo – USP).

2. Research was carried out to detect eventual pollution in the Admiralty Bay through the use of biomarkers to monitor environmental impacts (PV Ngan phanvn@usp.br, Oceanographic Institute of the University São Paulo – USP), and the detection of contamination by petroleum hydrocarbons (M C Bicego marcia@io.usp.br, Oceanographic Institute of the University São Paulo – USP), and by sewage and persistent organic pollutants (POPs) (R C Montone Oceanographic Institute of the University São Paulo – USP).

The biodiversity and biogeography of degrader microorganisms of xenosociological components and the analysis of the community structure in the bay was carried out (V H Pellizari vivianp@usp.br, Institute of Biomedical Science of the University São Paulo – USP). Effects of Ultraviolet Radiation on DNA of Marine Organisms in Admiralty Bay, King George Island, Antarctica (Phan Van Gnan- phanvn@usp.br, Vicente Gomes- vicgomes@usp.br, IO/USP; Neusa Paes Leme- nleme@dge.inpe.br- INPE

3. A second group analyzed the Antarctic and Global Changes, and the Environmental and Teleconnections with the South American Continent from the oceanographic point of view (C A E Garcia dfsgar@furg.br, Federal University of Rio Grande Foundation – FURG), and evaluated the size structure of the phytoplanktonic community in the Antarctic ecosystem (F W Kurtz fwkurtz@uerj.br, Rio de Janeiro State University). There was also evaluated how global changes affect the trophic ecology of top predators such as *Mirounga* spp (M M C Muelbert mamiferos@furg.br, Federal University of Rio Grande Foundation – FURG), and how the temporal-space characteristics of physical and biological parameters influence the whales distribution and abundance (P G Kinas dmtkinas@super.furg.br, Oceanographic and Antarctic Museum of the Federal University of Rio Grande Foundation – FURG).

4. Besides that, there was also research on evolutionary adaptation to the Antarctic environment at organismal level, by evaluating the feeding behaviour and the structural adaptations in the digestive tract, as well as in the sensory structures used for food detection and selection by Antarctic fish, and the morphological plasticity of some species (E Fanta e.fanta@terra.com.br, Federal University of Paraná), biochemical and physiological behaviour of Antarctic fish (M Bacila mertz bacila@puccpr.br, Pontifical Catholic University of Paraná) and enzymatic processes adapted to the cold environment in birds and fish (E Rodrigues edsonrod@unitau.br, University of Taubaté).

5. Three aerial surveys were carried out from October 2007 March 2008. The total number of pinnipeds estimated for EI was 2318 individuals. The maximum number of seals recorded at our study area was 927. There was an increase in the records of leopard seals while the number of AFS registered at Cape Valentin was considerably lower than what was recorded in 2005/2006. A similar trend was registered for SES at Stinker Pt. It is possible that the cold weather and ice conditions faced in 2007/2008 have affected the number of seals on land as well as the time of the main breeding events which were delayed by approx. 15d. Tags of previously marked individuals (n=23) were resighted very close to the original sighting spots suggesting site fidelity for many individuals.

6. During the 2007/2008 field season about 102 SES pups were monitored, counted, marked, tagged, sampled and weaned. 121 skin samples were collected from breeding males, females and their pups. AFS pups born within the study area increased to 13 pups in 2007/2008. In February 2008 10 CTD-tags were deployed in post-molting females just prior to their pelagic phase so that their movements as well as oceanographic data they have been collecting has been monitored. The continuous long-term monitoring of pinnipeds at EI is important to provide information on the trends of pinniped populations for the South Shetlands in light of the potential effects of environmental variability on biodiversity in the Antarctic. We are presently the only group systematically counting seals at EI from a population biology standpoint.