



Documento: DT/16
Item Agenda: RAPAL 6
Presentado por: Brasil

**“PROPOSTA BRASILEIRA DE UM PROGRAMA
LATINOAMERICANO PARA O ANO POLAR INTERNACIONAL”**



DOCUMENTO DE TRABALHO

XVI RAPAL **2005**

PROPOSTA BRASILEIRA DE UM PROGRAMA LATINOAMERICANO PARA O ANO POLAR **INTERNACIONAL**

Diretriz I:

Conexão entre América do Sul e região antártica, abrangendo ciências geológicas, atmosféricas, climáticas, ecológicas, e biológicas, além de apontar para as dimensões humanas.

Diretriz II:

Tecnologia para edificações antárticas levando-se em conta, especialmente a corrosão em elementos metálicos, os impactos ambientais, especialmente nas avaliações de resíduos (líquidos, sólidos, ruídos, atmosféricos e na paisagem), as técnicas construtivas adequadas para edificações antárticas e aplicando-se as metodologias específicas de planejamento, como zoneamento de planejamento territorial, ambiental e de uso do solo, metodologia para definição de percursos (trilhas), metodologia para desmonte de edificações e avaliação pós ocupação.

Objetivo:

O principal objetivo da proposta é apontar mecanismos de integração para uma agenda de pesquisas científicas e tecnológicas antárticas coordenada pelos países da América Latina, assegurando que a proposta latino-americana para IV API seja multidisciplinar e interdisciplinar, considerando o Ano Polar Internacional como um grande consenso entre os países de modo a ampliar a cooperação científica internacional.

A proposta objetiva, principalmente:

- estreitar as relações entre os pesquisadores nacionais, as entidades antárticas latinoamericanas e a comunidade científica antártica internacional;
- refletir os interesses latinoamericanos e os pontos de vista da comunidade científica em relação aos assuntos tratados pelo API;



- ampliar a atuação, a visibilidade e o reconhecimento internacional dos países da América Latina no API.

O necessário aprofundamento da proposta dar-se-á durante as discussões desta RAPAL.

Oferecimentos brasileiros:

Na área científica podemos considerar intercâmbio com a comunidade de pesquisadores com experiência de 23 anos ininterruptos promovendo pesquisas antárticas nas áreas de Ciências da Atmosfera, Ciências da Vida e Ciências da Terra;

Contamos com cerca de 16 Institutos de Pesquisa e Laboratórios Universitários aparelhados.

Na área logística, podemos considerar vagas na Estação Antártica Comandante Ferraz e no Navio de Apoio à Pesquisa Oceanográfica Ary Rongel, além de vagas no Treinamento Pré-Antártico, realizado anualmente na Ilha de Marambaia, no Rio de Janeiro.

Em anexo encontra-se uma planilha com as propostas encaminhadas ao API em que há países da RAPAL envolvidos.



XVI RAPAL

Lima, 19 al 22 de Setiembre de 2005

Expressions of Intent for IPY 2007-2008

| Projetos | ID N° | País Proponente | Países da RAPAL Envolvidos | BRA? |
|---|-------|-----------------|----------------------------|------|
| IPY Student Expeditions to the Arctic and Antarctic (STUDEX) | 311 | Alemanha | Argentina (IC) | |
| Impact of climate induced glacial melting on marine coastal communities off the Western Antarctic Peninsula (CLICOPEN) | 193 | Alemanha | Argentina, Brasil (PM; IC) | |
| Colonisation of polar mosses and lichens, their influence on the studies of the global climatic change, conservation and human effects using a population genetic approach. (CoPMaLGA Colonisation of Polar Mosses and Lichens with Genetic Approach) | 726 | Alemanha | Chile (IC; End) | |
| Polar Ocean Gateways: The keys to understanding long-term global change (POLARGATES) | 20 | Alemanha | Argentina (End) | |
| Land use impact on polar and sub-polar geosystems: extent, significance, perspectives (LUPOG) | 282 | Alemanha | Argentina (PM; IC) | |
| Geodynamics of the Hinge Zone between East and West Antarctica and influences on glacial evolution: A Transect between Patriot Hills-Ellsworth Mount (PET - Pensacola-Ellsworth Transect) | 221 | Alemanha | Chile (PM; IC; End) | |
| Polar Ozone Loss (PO3L) | 542 | Alemanha | Argentina (Ad. Part)* | |
| International CCAMLR 2008 synoptic survey of krill , pelagic fish and plankton biomass and biodiversity in the South Atlantic (Area 48) (CCAMLR - 2008 Survey) | 148 | Alemanha | Chile (PM) | |
| The combined effects of ultraviolet radiation and climate change on the biological pump: A temporal and latitudinal study. (BIOP) | 194 | Argentina | | |
| Critical revision of Gondwana breakup (GONDWANA GGPP) | 568 | Argentina | Brasil, Chile (IC) | |
| Seasonality of the Drake Passage pelagic ecosystem: Biodiversity, food webs, environmental change and human impact. Present and Past (DRAKE BIOSEAS) | 192 | Argentina | Brasil, Chile (IC) | |
| Antarctic permafrost and climate change (Antarctic permafrost and climate change) | 191 | Argentina | | |
| International Antarctic Institute (IAI) | 415 | Austrália | Chile (PM) | |



XVI RAPAL

Lima, 19 al 22 de Setiembre de 2005

| | | | | |
|--|-----|-----------|--------------------------------------|--|
| A Census of Antarctic Marine Life – to be conducted under the auspices of the international Census of Marine Life (CoML - see www.coml.org) (CAML Census of Antarctic Marine Life) | 83 | Australia | Argentina, Brasil (PM) | |
| Habitats on Polar shelves and margins : the interaction of cryosphere, geosphere, hydrosphere and biosphere (HABIPOL) | 543 | Bélgica | Brasil (PM) | |
| Predicted environmental changes and biodiversity: modelling the effects of climate changes on echinoids distribution. (Forecasting echinoids biodiversity (FOREBIO)) | 839 | Bélgica | Brasil, Chile (IC) | |
| On collocated geophysical measurements in the future Belgian Antarctic base (GefBA) | 377 | Bélgica | Argentina (IC; Fund) | |
| Southern Ocean Studies for Understanding Global-CLIMATE Issues (SOS-Climate) | 911 | Brasil | Argentina (PM; IC) | |
| Space Weather Impacts in the Polar Atmosphere (SWIMPA) | 603 | Brasil | Argentina (IC) | |
| Sea-Ice-Atmospheric Signals of Mid latitudes-Antarctic Linkages (SIAS) | 149 | Brasil | Argentina, Chile (IC) | |
| Study of the Separation between Antarctica and South America: its geological and biological implications. (SEASOAM) | 156 | Brasil | Argentina, Chile, Peru (IC) | |
| Biorestoration of contaminated soils and sediments near scientific stations in polar regions (Polar Biorem) | 132 | Canadá | Argentina (PM; IC; End), Brasil (IC) | |
| Terrestrial Ecosystems in the Polar regions of Canada (Terrestrial Ecosystems in the Polar regions of Canada) | 706 | Canadá | Argentina (IC) | |
| Mission Antarctique (Mission Antarctique) | 465 | Canadá | Argentina (PM; End), Chile (IC) | |
| The structure and evolution of the stratospheric polar vortices during IPY and its links to the troposphere (SPARC-IPY) | 807 | Canadá | Argentina (PM) | |
| LIFE ON THE EDGE AT ALERT – MONITORING HIGH ARCTIC BIRDS AND WILDLIFE IN A CHANGING GLOBAL CLIMATE (HABS – High Arctic Bird Studies) | 670 | Canadá | Argentina (PM; IC) | |
| Canadian Antarctic Research Program (CARP) | 650 | Canadá | Argentina (IC) | |
| Pine Island Glacier: ice dynamics and recent evolution in the onset region. (PIGIDOR) | 822 | Chile | Brasil (PM; IC; End) | |
| Study of the boundary layer and free atmosphere in the Patriot Hills region (Patriot Atmospheric Study) | 837 | Chile | | |



XVI RAPAL

Lima, 19 al 22 de Setiembre de 2005

| | | | | |
|--|-----|-----------|---------------------------------|--|
| <u>Study of the boundary layer during the Second Scientific Expedition from Patriot Hills to South Pole (Boundary layer from Patriot to South Pole)</u> | 382 | Chile | | |
| <u>Glacier benchmark network for monitoring mass-balance and validation of remote sensing based methods on Antarctic Peninsula. (GLABENAP - Glacier Benchmark Network on Antarctic Peninsula)</u> | 87 | Chile | Argentina, Brasil (PM; IC; End) | |
| <u>Subpolar glaciers network as natural sensors of global warming evolution (SUGLANET: SUBpolar GLAciers NETwork)</u> | 233 | Espanha | Chile (IC), Uruguay (PM; IC) | |
| <u>Permafrost, soils and periglacial processes in the Antarctic Peninsula region. Spanish contribution to the international proposal ANTPAS (Antarctic and sub-Antarctic Permafrost, Periglacial and Soil Environments) (ANTPAS-SPAIN)</u> | 228 | Espanha | Brasil (Ad. Info) | |
| <u>Finnish Antarctic Research Programme on Polar Climate Change (FARPOCC)</u> | 312 | Finlândia | Argentina (IC) | |
| <u>Interhemispheric Conjugacy Effects in Solar-Terrestrial and Aeronomy Research (ICESTAR)</u> | 554 | Finlândia | Chile (IC) | |
| <u>Study of Ozone, UV irradiance and related parameters in relation with polar ozone depletion in Antarctic and sub-Antarctic regions (SOUTH-O3)</u> | 808 | França | Argentina (PM; IC) | |
| <u>Polar ozone depletion: Comparing the responses of Arctic and Antarctic terrestrial ecosystems to enhanced UV-B (UVPOLAR: Polar ozone depletion, effects of UV-B on ecosystems in the Arctic and Antarctic)</u> | 792 | Holanda | Argentina (PM; End) | |
| <u>Forcing from the Ocean and Climate in Antarctica (FOCA)</u> | 117 | Itália | Argentina (PM; IC) | |
| <u>Southern Ocean Network to Assess Observations of Marine Currents and Hydrological Properties at the base of the Antarctic Continental Margin (SON)</u> | 596 | Itália | Argentina (PM; IC) | |
| <u>International Collaborative Expedition to collect and study Fish Indigenous to Sub-Antarctic Habitats, 2007 (ICEFISH-2007)</u> | 533 | Itália | Brasil (IC) | |
| <u>Comparison of the ecological processes in two contrasting regions of Antarctica: Ross Sea and Antarctic Peninsula (RO.SE.PEN)</u> | 591 | Itália | Argentina, Brasil, Chile (IC) | |



XVI RAPAL

Lima, 19 al 22 de Setiembre de 2005

| | | | | |
|--|-----|-----------------|--|--|
| <u>Airborne measurements in the Southern Polar Upper Troposphere and Lower Stratosphere with the M-55 Geophysica high-altitude platform (Geophysica: Antarctic UTLS)</u> | 919 | Itália | Argentina (PM; IC) | |
| <u>EFFECTS OF ISOLATION ON THE GENETIC BIODIVERSITY OF SHALLOW COASTAL BENTHIC COMMUNITIES IN ANTARCTICA (EFFECTS OF ISOLATION ON THE GENETIC BIODIVERSITY OF SHALLOW COASTAL BENTHIC COMMUNITIES IN ANTARCTICA)</u> | 219 | Malásia | Chile (IC) | |
| <u>Metal corrosion in cold climate (CorrCold)</u> | 306 | Noruega | Argentina (PM; IC) | |
| <u>The coastal and shelf ecosystem of Maritime Antarctica (Admiralty Bay, King George Island) (CSEMA)</u> | 863 | Polônia | Brasil (IC; End), Chile (End), Peru (IC) | |
| <u>The Thermal State of Permafrost (TSP): A Contribution from Portugal to an International Network of Permafrost Observatories (INPO) by IPA (TSP-PORTUGAL)</u> | 140 | Portugal | Argentina (IC) | |
| <u>Multidisciplinary Ecological Study of Antarctic Oases (MESAO)</u> | 930 | República Checa | Argentina, Chile (IC) | |
| <u>The research of Antarctic peninsula climate changes (The research of Antarctic peninsula climate changes)</u> | 805 | Rússia | Chile (IC) | |
| <u>Antarctic and sub-Antarctic Permafrost, Periglacial and Soil Environments (ANTPAS - Antarctic Permafrost And Soils)</u> | 627 | Suécia | Argentina, Brasil (Ad. Info) | |
| <u>Circum Antarctic Zircon Census (CAZIC)</u> | 499 | Ucrânia | Argentina, Chile (Data Exchange)** | |
| <u>COMPARATIVE STUDIES OF GENTOO POPULATIONS (GOSGEN)</u> | 379 | Ucrânia | Argentina, Brasil (IC; End) | |
| <u>Troposphere-ionosphere-magnetosphere interaction study over Antarctic Peninsula using network of automatic meteo-magnetic stations (TIMIS)</u> | 803 | Ucrânia | Argentina, Brasil, Peru (IC), Chile (PM; IC) | |
| <u>Synoptic Antarctic Shelf-Slope Interactions Study; an IPY project from iAnZone (SASSI)</u> | 9 | Reino Unido | Brasil (PM; End) | |
| <u>Glaciers, Climate and Sea Level (GLACSL)</u> | 446 | EUA | Chile (IC) | |
| <u>Investigating the Crustal Elements of the Central Antarctic Plate (ICECAP)</u> | 256 | EUA | Argentina (PM; IC) | |
| <u>Mass Balance and Ice Dynamics of Antarctic Peninsula Glaciers for IPY2007-2008. (APY)</u> | 359 | EUA | Argentina (Link)***, Chile (PM; IC) | |



XVI RAPAL

Lima, 19 al 22 de Setiembre de 2005

| | | | | |
|--|-----|-----|--|--|
| <u>Airborne Hydrographic Sampling of the Polar Oceans (AHSP0)</u> | 350 | EUA | Argentina (IC; Fund), Chile (PM; IC; Fund) | |
| <u>Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean: Mixing in the Antarctic Circumpolar Current (DIMES)</u> | 180 | EUA | Argentina, Chile (IC) | |
| <u>Polar Gateways to Exploration of Icy Worlds in the Solar System (POLar Gateways to EXploration (POGEX))</u> | 259 | EUA | Argentina (PM) | |
| <u>International Polar Year (IPY) Metadata and Information Portal Network for the Data and Information Service (DIS) (IPY Metadata Centre)</u> | 572 | EUA | Argentina (IC) | |
| <u>Antarctic Peninsula Ice and Climate System Initiative (APICS)</u> | 178 | EUA | Argentina, Chile (PM; IC) | |

Legendas:

PM – Países que possuem cientistas entre os “Project Members”

IC – Países citados em “International Collaboration”

End – Países citados em “Endorsement”

Fund – Países citados em “Funding”

Ad. Info – Países citados em “Additional Information”

* - Argentina é citada como “addicional participant” em “Additional Information”

** - Países citados sob o tópico “Project Management and Structure”

*** - Argentina é citada sob o tópico “Project Management and Structure”