

Table 1. Status of ISPI and II Project Reports

Program	Proposal number	Proposal Title	PI	report received	note
ISPI					
	1-003	Request for Partial Support for a Workshop on a Comparative Analysis of Nitrogen Cycling in the Americas	Howarth, Robert	<input checked="" type="checkbox"/>	
	1-005	The Last Four Centuries of the California Current Calibration and Interpretation from the Laminated Sediments, Tree-Rings and Historical Records of Southern Alta California and Baja California	Herguera, Juan Ca	<input checked="" type="checkbox"/>	
	1-012	Rainfall Studies in the Amazon Basin and Central South America	Diaz, Henry	<input checked="" type="checkbox"/>	
	1-020	Hydrology Budgets for Amazonia	Krishnamurti, T.N	<input checked="" type="checkbox"/>	
	1-033	Vegetation History from Fossil Rodent Middens in Mid-Latitude American Deserts	Betancourt, Julio	<input type="checkbox"/>	in the field
	1-037	A South American Modeling Center for Global Change Related Oceanic, Coastal and Estuarine Processes	Dias Campos, Ed	<input checked="" type="checkbox"/>	
	1-051	Initial Climate Research within the Trade Convergence Climate Complex	Enfield, David	<input checked="" type="checkbox"/>	
	1-054	Ice-core Study on the Environment and the Climate of the Antarctic Peninsula and the Southern Part of South America	Aristarain, Alberto	<input checked="" type="checkbox"/>	
	1-071	Comparative Studies in North and South America along an Aridity Gradient	Castellanos, Aleja	<input checked="" type="checkbox"/>	
	1-080	Biogeochemical Determinants of Land Cover Changes and Land Use in Savanna Cultivation-Grazing Systems	Tiessen, Holm	<input checked="" type="checkbox"/>	
	1-084	Exchange through the Yucatan Strait and its Importance for Climate Change Studies	Badan-Dagon, Ant	<input checked="" type="checkbox"/>	
ISPII					
	2-0011	The Impact of Climate Change on Nearshore Marine Biodiversity in the Gulf of California	Foster, Michael	<input checked="" type="checkbox"/>	
	2-0015	Support for Short Course: Instrumentation and Measurement Methodologies in Atmospheric Chemistry Research	Bierly, Eugene	<input checked="" type="checkbox"/>	

Program	Proposal number	Proposal Title	PI	report received	note
	2-0032	Desertification and Ecosystem Processes: Overgrazing, Grass Transpiration and Soil Water Balance	Reynolds, James F	<input checked="" type="checkbox"/>	
	2-0051	Global Change Effects on Biodiversity and Functioning: Manipulation of Keystone Processes	Sala, Osvaldo	<input checked="" type="checkbox"/>	
	2-0055	Climate Variability and Agriculture in Argentina and Uruguay: Assessment of ENSO Effects and Perspectives for Use of Climate Forecasts	Bidegain, Mario	<input checked="" type="checkbox"/>	
	2-0078	Links Between Coastal Productivity, Benthic Communities, and Biogeographic Boundaries in Chile and California	Navarrete, Sergio	<input checked="" type="checkbox"/>	
	2-0082	The Effect of UV-B Radiation on Salt-Marsh Vegetation along a Latitudinal Gradient	Koch, Evamaria	<input checked="" type="checkbox"/>	
	2-0085	Coastal Upwelling along the Western Americas: Past, Present and Future	VanGeen, Alexand	<input checked="" type="checkbox"/>	
	2-0111	Precipitation in Southeastern South America: Influence of Sea Surface Temperatures, Predictability and Variability	Piscittano, Gabriel	<input type="checkbox"/>	no reply
	2-0112	Diagnosing, Monitoring and Predicting Cold Waves (Friagens) in Coffee Growing Areas of Southeastern Brazil	Marengo, Jose	<input checked="" type="checkbox"/>	
	2-0124	Biophysical Coupling in the Pelagic Ecosystems of the Southern California Current	Baumgartner, Tim	<input checked="" type="checkbox"/>	
	2-0135	A South American Network for the Measurement of Ultraviolet Radiation	Vernet, Maria	<input checked="" type="checkbox"/>	

Table 2. Presentations at scientific meetings.

Project ID	Workshop	Location	Year
1-005	Reunión Annual de CALCOFI	Lake Arrowhead, USA	1997
	Annual Meeting of the American Geophysical Union	San Francisco, USA	1997
	Renunión Extraordinaria sobre El Fenómeno del El Niño Mexicano	Mexico, D. F., Mexico	1997
	Renunión Annual de la Union Geofísica Mexicana	Puerto Vallarta, Mexico	1997
1-037	Spring meeting of the American Geophysical Union	Baltimore, USA	1997
	WOCE South Atlantic Workshop	Brest, France	1997
	AGU/ASLO Ocean Sciences Meeting		1998
1-051	The "El Niño" Phenomena and its Impact on Socio-Economic Activities of the Chiriquí and Bocas del Toro Provinces of Panamá	Panama	1996
	Implementation of IRI Activities in Central America	San Jose, Costa Rica	1996
	Climatic Changes and Human Health Linkages in the Tropical Americas	Belize	1997
	Corporate Workshop of Dole Fruit	Miami, USA	1997
	CLIVAR Conference on American Monsoons	Mexico City, Mexico	1997
	Pan Caribbean Climate Applications and Research Consortium	Miami, USA	1997
	Annual AMS meeting, 1997	Longbeach, USA	1997
1-054	Joint Assembly of the International Association of Meteorology and Atmospheric Sciences and the International Association for	Melbourne, Australia	1997
1-071	Fifth International Congress on Desert Development: The Endless Frontier	Lubbock, USA	1996
	International Symposium and Workshop: Combating Desertifications: Connecting Science with Community Action	Tucson, USA	1997
1-084			

Project ID	Workshop	Location	Year
	Conference on the Transport and Linkages of the Intra-American Sea	Cozumel, Mexico	1997
	Ocean Science Meeting of the American Geophysical Union	San Diego, USA	1998
2-0011	International Physiological Congress	Leiden	1997
	Western Society of Naturalists	La Paz, Mexico	1997
	Western Society of Naturalists	Monterey, Mexico	1997
2-0032	Friends of the Jornada Symposium	Las Cruces, USA	1997
	NSF-DOE International Conference on Changing Water Regimes in Drylands	Tahoe City, USA	1997
	Strategic Environmental research and Development Program	Arlie, USA	1997
	Ecological Society of America	Albuquerque, USA	1997
	International Conference on Combating Desertification	Tucson, USA	1997
2-0055	Actas del VII Congreso Argentina y VII Congreso Latinoamericano e Ibérico de Meteorología	Buenos Aires, Argentina	1996
	IAI workshop and conference on El Niño 1997/1998	Montevideo, Uruguay	1997
	International Congress of Latin American Studies Association	Chicago, USA	1998
	International Symposium on Climate Variability: Impacts on Rural Activities	Salamander Bay, Australi	1998
2-0112	First Interhemispheric paleoclimates of the Americas conference	Merida, Venezuela	1998

Table 3. Students fully or partially supported from IAI grants.

Project ID	Student	Country	Institutions	Title	Type	Date Com
1-005	Esparza, A.	Mexico	CISESE		M. S.	in prep
	Oliver, B	Mexico	CISESE		M.S.	in prep
1-037	Lentini, C.	Brazil	U. of Miami		M.S.	
1-071	Martínez,	Mexico	Universidad de Sonora	Sucesión en campos de cultivo abandonados en la región agrícola de la Costa de	M. S.	in prep.
	Vendramin	Argentina	Universidad Nacional de Córdoba	Relaciones entre composición química foliar y caracteres biológicos clave de distintos	M. S.	in prep
	Perez Harg	Argentina	Universidad Nacional de Córdoba	Análisis comparativo de la tasa de descomposición foliar potencial de especies	M. S.	in prep
	Yanez, G.	Mexico	Universidad de Sonora	Cambios en la cubierta vegetal de la porción central de Sonora, utilizando	M. S.	in prep.
1-080	Eduardo V.	Brazil	U. Federal Rual		M. S.	1999
	Luiz F. C.	Brazil	U. Federal Rual		M.S.	1998
2-0011	James, D	USA	San Jose State University	The ecology of sea urchin, <i>Toxopneustes roseus</i> , in rhodolith beds in the Gulf of	M.S.	in prep
	Yabur, R.	Mexico	Universidad Autonoma de Baja California Sur	The distribution of rhodolith species and forms in the Gulf of California	Undergrad	in prep
	Rivera, M.	Mexico	Universidad Autonoma de Baja California Sur	Age and growth in rhodoliths	Undergrad	in prep
	Riosmena,	USA	San Jose State University	A taxonomic reassessment of rhodolith-forming species of <i>Lithophyllum</i> in the Gulf of	M. S.	1997
	Marrack, L	Mexico	San Jose State University	The relationship between water motion and rhodolith-forming species in	M.S.	1997
	Schaeffer,	USA	San Jose State University	A molecular genetics analysis of rhodolith population structure in the Gulf of	M.S.	in prep

Project ID	Student	Country	Institutions	Title	Type	Date Com
	Medina, M	Mexico	Universidad Autonoma de Baja California Sur	Cryptofauna associated with rhodoliths in the Gulf of California	Undergrad	in prep
	Frantz, B.	USA	San Jose State University	Rhodoliths: growth rates and use as indicators of marine climate	M.S	in prep
	Cintra, C	USA	San Jose State University	The biodiversity of rhodolith beds in the Gulf of California: a comparison of Pleistocene	M. S.	in prep
2-0032	Fernandez,	Argentina	Duke University		Ph.D.	in prep
2-0051	Ascensao,	Portugal	University of Buenos Aires		Undergrad	in prep
	Austin, A.	USA	Universidad de Buenos Aires		post-doc	in prep
2-0055	Bentacour	Uruguay	Instituto Nacional Tecnologica de Agricultura		M.S.	in prep
	Bidegain,	Argentina	Instituto Nacional Tecnologica de Agricultura		M.S	in prep
2-0078	Sotomayor,	Chile	Pontificia Universidad Catolica de Chile		M. S.	in prep
	Broitman,	Chile	Pontificia Universidad Catolica de Chile		M. S.	in prep
	Zevallos, H	Chile	Universidad Arturo Prat		Undergrad	in prep
	Smith, F.	New Zeala	Pontificia Universidad Catolica de Chile	Biogeographic variation in community composition and its response to El Niño	post-doc	in prep
	Finke, R.	Chile	Pontificia Universidad Catolica de Chile		M. S.	in prep
2-0082	Kluenenber	USA	University of Maryland		M. S.	in prep
	Gonzales	Brazil	Universidad de Rio Grande		M. S.	in prep
	Oronzo, E.	Argentina	Centro Austral de Investigaciones Cientificas		Ph.D.	in prep
2-0135						

Project ID	Student	Country	Institutions	Title	Type	Date Com
	Obert, A.	Argentina	Centro Austral de Investigaciones Cientificas			
	Zamorano,	Chile	Universidad de Magallanes			

Table 4. Publications produced or in progress from ISP projects.

Project ID	Status	First 4 Authors	Title	Journal
1-003	1999		Papers from workshop will be published in a series	Biogeochemistry
1-005	1998	Pourchet, M. Bartarya, S. K. Maignan, M. Jouzel, J.	Distribution and fall-out of Cs137 and other radionuclides over Antarctica	Journal of Glaciology
	in press	Aristarain, A. J. Delmas, R. J.	Ice record of a large eruption of Deception Island volcano (Antarctica) in the XVIIIth century	Journal of Volcanology and Geothermal Research
1-012	in preparation	Barros, V. Gonzalez Panarello, H.	Study of stable isotopes content in precipitation as possible indicators of water vapor source in subtropical Argentina	Not provided
	in preparation	Marenco, J. A. Liebann, B. Fiizola, J. Glick, J. D.	The annual and interannual variability of the onset, end and intensity of the rainy season in the Amazon basin in South America	Not provided
	in preparation	Liebmann, B. Kiladis, G. N. Marengo, J. A. Ambrizzi, T.	Convective variability over South America and the South Atlantic Ocean with emphasis on the South Atlantic convergence zone on submonthly time series	Not provided

Journal

Project ID Status First 4 Authors Title

	in press	Liebmann, B. Marengo, J. A. Glick, J. D. Kousky, V. E.	A comparison of rainfall, outgoing longwave radiation, and divergence over the Amazon basin	Journal of Climate
	in press	Dettinger, M. D. Cayan, D. R. McCabe, G. M. Marengo, J. A.	Multiscale hydrologic variability associated with ENSO	El Niño and Southern Oscillation: Multiscale Variability and its Impacts on Natural Ecosystems and Society, H.F. Diaz and V. Markgraf, eds., Cambridge University Press
	submitted	Gonzalez, M Barros, V.	On the relation between OLR in tropical South America and the end of the winter drought in subtropical Argentina	International Journal of Climatology
1-020	in press		Title not provided	Journal of Applied Meteorology
1-037	1997	Piola, A. R. Rivas, A. L.	Corrientes en la plataforma continental	El Mar Argentino y sus Recursos Perqueros, E. Bosqui (ed.)
	1997	Bianchi, A. A. Piola, A. R. Osiroff, A. P. Charo, M.	Upper ocean variability and mixing in the Brazil/Malvinas Confluence	WOCE Newsletter
	1997	Bianchi, A. A. Piola, A. R. Osiroff, A. P.	Variabilidad en la Confluencia Brasil/Malvinas, Resúmenes Expandidos	VII Congreso Latinoamericano de Ciencias del Mar
	1997	Campos, E. J. D.	A Circulação Oceânica e as mudanças globais	Indicadores Ambientais, Pontifica

Project ID	Status	First 4 Authors	Title	Journal
	in preparation	Lentini, C. Olson, D. B. Podesta, G. Campos, E. J. D.	Northward-propagating SST anomalies in the Western South Atlantic Ocean	Journal of Physical Oceanography
	in preparation	Carnos, E. J. D. Olson, D. B. Peng, G. Velhote, D.	Simulations of the circulation of Western South Atlantic with different wind products	Journal of Physical Oceanography
	submitted	Tomasi, L. R. Campos, E. J. D. Vega-Perez, L. A. Heitor, S.	The northward penetration of waters from the Brazil-Malvinas region along the Southeastern Brazilian continental Shelf and the occurrence of subantarctic benthic species near 22 S.	Cont. Shelf Res.
	submitted	Campos, E. J. D. Lentini, C. A. Olson, D. B. Podesta, G.	Interannual variability of the sea surface temperature in the South Brazil Bight	Geophysical Research Letters
	to be submitted	Velhote, D. Bleck, R. Campos, E. J.	Study of the Brazil Current frontal eddies in the South Brazil Bight with MICOM	Journal of Physical Oceanography
1-051	1996	Enfield, D. B.	Relationships of inter-American rainfall to tropical Atlantic and Pacific SST variability	Geophys. Res. Lett
	1997	Enfield, D. B. Mayer, D. A.	Tropical Atlantic SST variability and its relation to El Niño-Southern Oscillation	Geophys. Res
	in preparation	Enfield, D. B. Mestas-Núñez, A.	Multiscale variabilities in global sea surface temperatures and their relationships with tropospheric climate patterns	Journal of Climate

Project ID	Status	First 4 Authors	Title	Journal
1-071	in press	Enfield, D. B. Mestas-Nuñez, A.	Global modes of ENSO and non-ENSO SST variability and their associations with climate	El Niño and Southern Oscillation: Multiscale Variability and its Impacts on Natural Ecosystems and Society, H.F. Diaz and V. Markgraf, eds., Cambridge University Press
	submitted	Enfield, D. B. Alfaro, E. J.	The dependence of Caribbean Rainfall on the interaction of the tropical Atlantic and Pacific Oceans	Journal of Climate
	1997	Perez, Harquinde Diaz, S. Cornelissen, H. Cabido, M.	Comparación experimental de la tasa de descomposición foliar de especies vegetales del centro-oeste de Argentina	Ecología Austral
	1997	Diaz, S. Cabido, M.	Plant functional types and ecosystem function in relation to global change	Journal of Vegetation Science
	1997	Cabido, M. Ateca, N. Astegiano, M. Anton, A.	Distribution of C3 and C4 grasses along an altitudinal gradient in Central Argentina	Journal of Biogeography
	in press	Diaz, S. Cabido, M. Casaroves, F.	Plant functional traits and environment filters at the regional scales	Journal of Vegetation Science
2-0011	in preparation	Clark, R.	New chitons from the Gulf of California	Veiger
	in preparation	Frantz, B.	Rhodoliths: growth rates and use as indicators of marine climate	Nature

Project ID	Status	First 4 Authors	Title	Journal
	in press	Riosmena, R. Woelkerling, W. Foster, M.	A taxonomic reassessment of rhodolith-forming species of Lithophyllum in the Gulf of California, Mexico	Phycologia
	submitted	Marrack, L.	The relationship between water motion and rhodolith movement in the Gulf of California	Palaios
2-0032	submitted	Fernández, R. J. Reynolds, J. F.	Potential growth vs. drought tolerance in desert grasses: Lack of trade-off?	Functional Ecology
2-0055	submitted	Podestá, G. Messina, C. Grondona, M. Magrin, G.	Associations between Grain Crop Yields in Central-eastern Argentina and El Niño-Southern Oscillation	Journal of Climate
2-0112	1998	Krishnamurti, T. Tewari, M. Chakraborty, D. Marengo, J.	Downstream amplification, a possible precursor to major freeze events over Southeastern Brazil	Florida State University Report
	in press	Marengo, J. Comejo, A. Oyamburo, N. Cavalcanti, I.	Estudo de caso da primeira mass de ar frio em 1996 no sul do Brasil: Observações e resultados do modelo de circulação geral da atmosfera do CPTEC/COLA	Revista Brasileira de Meteorologia
	in progress	Marengo, J. Ambrizzi, T. Kiladis, G. Liebmann, B.	Rosby waves propagation and teleconnection patterns in the austral winter	Not provided

Journal

Project ID Status First 4 Authors Title

submitted	Krishnamurti, T Tewari, M. Chakraborty, D. Marengo, J.	Downstream amplification, a possible precursor to major freeze events over Southeastern Brazil	Weather and Forecasting
submitted	Seluchi, M. Marengo, J.	Tropical-Extratropical exchange of air masses during summer and winter in South America	Journal of Climatology

Table 5. Pre-proposals encouraged for full development by the evaluation committee.

Proposal Number	Principal Investigator	Title	Combinations
Start-up Grants			
1	Tiessen, Holm	Biogeochemical Cycles under Land-Use Change in the Semi-arid Americas	
3	Luckman, B. H.	The Assessment of Present, Past and Future Climate Variability in the Americas from Treeline Environments	
7	Nobre, Carlos,	Climate and Surface Hydrology in the Context of the LBA experiment: Climate Variability in the Amazon Basin and its Social Impacts in the Region.	
16	Magrin, Graciela O.	Global Change Assessment in Temperate Agro-Ecosystems of America	
17	Burden, Elliot	Coping with Global Change: Regional Environment Assessment for Modeling Sustainable Development Strategies for Rural Communities and Cultures.	
19	Johnson, Donald R.	Earth System Science Education and Training: Building Capacity within the IAI Collaborative Research Network	
20	Rothschild, Brian J.	Small Pelagic Fishes and Climate Change in the Americas	
24	Doré, Mohammed	Human dimensions of Global Climate Change and Sustainable Forest Management	
29	Guetter, Alexandre	ENSO, Severe Storms and Applications	
30	Nagy, Gustavo J.	Hydroclimatology and Nutrient Dynamics of the Rio de la Plata and Patos-Mirim Lagoon Coupled Land-Coastal Ocean System	
32	Perillo, Gerardo M	Response of Estuarine Systems in the Americas to Global and Regional Change	
33	Suárez-Isla, B.	AMERIHAB: An IAI Network for Research on Harmful Algal Blooms and their Socio-Economic Effects	
38	Donoso, Maria	Multi Objective Study of Climate Variability for Impact Mitigation in the Trade Convergence Climate Complex Region	
45	Lluch Beld, Daniel	Biological Action Centers (BAC)	
26	Vernet, María	Enhanced Ultraviolet-B Radiation in Natural Ecosystems as an added Perturbation due to Ozone Depletion	46,57 - optional
46	Holm-Hansen, O	The Impact of Enhanced Solar Ultraviolet Radiation on Aquatic and Terrestrial Resources in the Americas	26,57 - optional
57	Helbling, E. Walter	Impact of UV on Aquatic Primary Production: A Comparative Study of Phytoplankton in Sub-Polar Environments	26,46 - optional
47	McClain, Michael	Andean Amazon Rivers Analysis and Monitoring (Project AARAM)	
50	Mabres, Antonio	Creation of the Inter-American Center of Science and Technology of Atmospheric Radars for Global Change Research (CICYTRA)	
55	Ñuñez, Mario	Development of a Collaborative Research Network for the Study of Regional Climate Variability and Changes, their Prediction and Impact in the MERCOSUR Area	56 - optional
56	Pisciottano, G. J.	AUGM-IAI/CRN, SSA Climate Variability and Applications Physics/Hydro/Agro	55 - optional
61	Campos, Edmo J. D.	SACC: An International Consortium for the Study of Global and Climate Changes in the Western South Atlantic	two start-up teams
62	Baumgartner, T.	Comparative Studies and Assessment of the Impacts of Global Change on the Pelagic and Near-Shore Ecosystems of the North and South Pacific Eastern Boundary Currents	

Proposal Number	PI	Title	Combinations
-----------------	----	-------	--------------

New Initiatives - Encouraged

	Chen, Anthony	Understanding and Predicting Climate Variability in the Caribbean and its Impact on the Sugar Industry, Hydroelectricity and Health	69 - optional
9	Wood, Charles H.	Cattle, Land Use and Deforestation in Amazonia: A Comparative Analysis of Brazil and Peru	
12	Sala, Osvaldo	The Effects of Biodiversity on Ecosystem Functioning: A Comparison Across the Americas	14 - required
14	Oesterheld, Martín	A Research Network to Understand the Response of Grasslands and Savannas to Disturbance, Atmospheric Composition and Climate	12 - required
18	Reynolds, James F.	Collaborative Research Network: Integrated Desertification Assessment	
25	Crissman, Charles	An Integrated Assessment of ENSO and Climate Change Impacts on Andean Agriculture	
31	Franco, Eduardo	ENSO Disaster Risk Management in Latin America: A Proposal for the Consolidation of a Regional Network for Comparative Research, Information and Training from a Social Perspective	
39	Barrio, Héctor	The Panama Network: Changes in Land Use, Carbon Sequestration and Biodiversity	
40	Silva, Juan F.	Comparative Studies of Global Change Effects on the Vegetation of Two Tropical Ecosystems: The High Mountain and the Seasonal Savanna	
48	Confalonieri, Ulisses	Diagnostics and Prediction of Climate Variability and Human Health Impacts in the Tropical Americas	22, 63 - optional
65	Foster, Michael S.	Coral Reefs and Rhodolith in the Americas: Nearshore Centers of Biodiversity and Indicators of Global Change	54, 42 - optional

Table 6. Pre-proposals that were not encouraged but may be combined with encouraged teams.

Proposal Number	PI	Title	Combinations
	Waltne-Toews, David	Healthy Decisions: Cooperative Research Network on Land-Use Policy and Health	48-required
63	Barros, Vicente Ricardo	Impacto de la Variabilidad y el Cambio Climático sobre el Riesgo de Dengue en Regiones Extratropicales	48-required
54	Arias González, Jesús Ernesto	Comparative Study of Caribbean Coral Reef Ecosystem	65-required
42	Ardisson, Pedro-Luis	Status and Trend of Meso-American Reefs	65-required
69	Utset, Angel	Application of modeling and Informatical Techniques In Climate Variability Impact Assessment for American Sugar Cane Fields	5 - required

Table 7. Country participation in encouraged pre-proposals.

Country	Principal Investigator	Co-Principal Investigators
Argentina	8	16
Brazil	5	17
Bolivia	0	1
Canada	3	12
Chile	1	11
Colombia	0	7
Costa Rica	0	5
Cuba	0	0
Ecuador	2	2
Dominican Republic	0	1
Jamaica	1	1
Mexico	2	14
Panama	1	2
Paraguay	0	3
Peru	2	5
USA	5	27
Uruguay	2	7
Venezuela	1	4
	33	135

Table 8. Encouraged pre-proposals by theme.

Number	Title	Number
I	Understanding Climate Variability in the Americas	8
II	Comparative Studies of Ecosystems, Biodiversity, Land Use and Water Resources	16
III	Changes in the Composition of the Atmosphere, Oceans and Fresh Waters	3
IV	Integrated Assessment, Human Dimensions and Applications	5
V	Training and Education	1