

**INTER-AMERICAN INSTITUTE FOR  
GLOBAL CHANGE RESEARCH  
( IAI )**

**EC XIII - CoP VIII**  
*July 17-20, 2001*  
*Panama City, Panama*

**6\_ECXIII/CoPVIII/DID/English/June 18, 2001**



**INTER-AMERICAN INSTITUTE FOR GLOBAL CHANGE RESEARCH  
DIRECTORATE**

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**Report of the Director to the EC and the CoP  
13<sup>th</sup> EC and 8<sup>th</sup> CoP Meetings  
Panama City, Panama**

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**Report of the Director to the EC and the CoP  
13<sup>th</sup> EC and 8<sup>th</sup> CoP Meetings  
Panama City, Panama**

*In this report, an analysis of the IAI's accomplished or on-going activities, new initiatives, and related Directorate's actions is made for the period of July 2000-June 2001, with emphasis on actions accomplished during the period of December 2000-June 2001, following the 12<sup>th</sup> EC meeting held in San José de Costa Rica (December 4-5, 2000).*

*More information and analysis of some items briefly reported here are provided in other documents to be distributed to the EC and the CoP representatives and/or will be presented by other IAI staff member or EC representative during the meetings. This is particularly the case of the following items:*

- *IAI Core Budget for FY 2001/2002;*
- *Status of the implementation of the CRN Program;*
- *Training and Education Activities;*
- *Working Groups' and Task Forces' Activities.*

*June, 2001*

## I. INSTITUTIONAL ASPECTS

### A. IAI Memberships

No new nation deposited the ratification instrument at the Organization of American States (OAS) during the period covered in this report (table 1).

*Table 1: Countries that ratified and/or adhered to IAI Agreement up to June 2000.*

SIGNATORY COUNTRIES	DATE (m/d/y)	RA/AC/AD (m/d/y)	DEPOSIT (m/d/y)	INSTRUMENT
ARGENTINA	05/13/92	11/03/93	02/24/94	RA
BOLIVIA	05/13/92	/ /	/ /	
BRAZIL	05/13/92	05/07/93	06/23/93	RA
CANADA	05/13/92	/ /	06/15/93	AC
CHILE	05/13/92	09/28/94	10/14/94	RA
COLOMBIA	05/13/92	08/13/97	09/24/97	RA
COSTA RICA	05/13/92	05/13/94	08/26/94	RA
CUBA	05/13/92	/ /	01/05/95	RA
ECUADOR	05/13/92	10/16/97	11/24/97	RA
GUATEMALA	/ /	10/13/97	01/05/98	AD
JAMAICA	/ /	07/31/97	09/10/97	AC
MEXICO	05/13/92	06/30/92	04/27/93	RA
PANAMA	05/13/92	12/23/93	01//11/94	RA
PARGUAY	05/13/92	08/27/96	10/08/96	RA
PERU	05/13/92	12/27/94	02/17/95	RA
DOMINICAN REPUBLIC	05/13/92	07/29/97	09/04/97	RA
UNITED STATES	05/13/92	/ /	01/12/93	AC
URUGUAY	05/13/92	08/10/93	08/10/93	RA
VENEZUELA	/ /	03/06/96	06/14/96	AD

( RA = Ratification / AC = Acceptance / AD = Adhesion )  
Source: OAS – June 2001

### B. Ratification Status of the CoP-VI, Resolution #7

The Resolution # 7, approved at the CoP-VI, was signed by its President (Gordon McBean) in January 2000 and sent to all member countries on the dates shown in table 2.

*Table2: Dates when original copies of Resolution # 7 were sent to member countries and the names of the addressees.*

Country	Correspondence sent to: (mm.dd.yy)	Copy sent to: (mm.dd.yy)
<b>Brazil</b>	1) Ronaldo Mota Sardenberg (02.17.00)	1) Marcio N. Barbosa (02.17.00) 2) Antonio MacDowell (02.17.00)
<b>Canada</b>	1) David Drake (02.17.00) 2) Richard Ballhorn (02.17.00)	1) Gordon McBean (02.17.00)
<b>USA</b>	1) Paul Filmer (02.17.00)	-----
<b>Jamaica</b>	1) Antony Chen (02.18.00)	-----
<b>Cuba</b>	1) Rosa Elena Simeón Negrín (02.17.00)	1) Barbara Garea (02.17.00)

<b>Mexico</b>	1) Enrique Provencio (02.17.00)	1) Carlos Gay (02.17.00)
<b>Colombia</b>	1) Guillermo Fernandez de S. (02.17.00)	1) Pablo Leyva (02.17.00)
<b>Dom. Rep.</b>	1) Zoila González de G. (02.18.00)	-----
<b>Peru</b>	1) Fernando Trazegnies G. (02.29.00)	1) Pablo Lagos (03.01.00)
<b>Argentina</b>	1) Dante Mario Caputo (02.29.00)	1) Carlos Ereño (03.01.00)
<b>Uruguay</b>	1) Didier Operti (03.01.00)	1) Raul Michelini (03.01.00)
<b>Guatemala</b>	1) Gabriel Orellana Rojas (03.14.00)	1) Herbert Meneses (03.14.00)
<b>Panama</b>	1) Flavio Méndez (03.14.00)	1) Ricardo Anguizola (03.28.00) 2) Maria Donoso (03.28.00)
<b>C. Rica</b>	1) Elizabeth Odio Benito (03.13.00)	1) Roberto Rojas L. (03.13.00) 2) Eladio Zárate (03.10.00)
<b>Venezuela</b>	1) Jesús Arnaldo Perez (03.10.00)	1) David Pérez H. (03.10.00) 2) Manuel Martínez (03.10.00) 3) Edwin Rodriguez (03.10.00)
<b>Paraguay</b>	1) Ruben Garcia Gimenez (03.10.00)	-----
<b>Ecuador</b>	1) Fernando Ortiz C. (03.10.00)	-----
<b>Chile</b>	1) Mauricio Sarrazín A. (03.10.00)	-----

The Director notified the Depository (OAS) of the Resolution approved by the CoP on February 29, 2000.

The Department of International Law of OAS (Mr. Edwin Choy) informed the Directorate that no documentation ratifying the amendment had been received from any member countries at OAS up to June 1<sup>st</sup>, 2001.

### C. Missions to and Communications with the IAI Member Countries

The Director visited and/or contacted several IAI member countries during this period in order to: a) revitalize the participation of some countries that had shown decrease in their institutional linkage to IAI during the past years, b) request the delayed payments of due voluntary contributions, c) develop working agreements and/or obtain additional support for programmatic IAI activities. Because of the very diverse nature of IAI representations in each country, the approaches varied in each case:

Table 3 summarizes the main activities and results.

**Table 3:** *IAI countries visited/contacted by the IAI Director, actions, and results.*

<b>Country</b>	<b>Objective(s)</b>	<b>Actions</b>	<b>Results</b>
Mexico	<ul style="list-style-type: none"> <li>• To strengthen its institutional participation;</li> <li>• To advance on payments of due voluntary contributions;</li> <li>• To develop a Joint Funding and Resource Agreement (JFRA).</li> </ul>	Contact with high Government officials (José Sarukan) and scientists closely linked with the IAI (Ruben Lara)	<ul style="list-style-type: none"> <li>• Pending visit of IAI authorities to Mexico to meet with the SEMARNAP Secretary and the President of CONACYT;</li> <li>• A JFRA model sent to Mexico.</li> </ul>

Venezuela	To strengthen its institutional participation and implement the MOU already signed in September 1999.	Contact with the President of CONICIT (Danilo Lopez).	The CONICIT President is studying ways to implement a JFRA similar to the one signed by Argentina in 1998.
Canada	<ul style="list-style-type: none"> <li>• To meet with the new IAI representative (Denis Everell);</li> <li>• To search for increased support of Canada to the IAI program/projects budget.</li> </ul>	Meeting with Michel Bêland (Environment Canada, Montreal) and a briefing on IAI activities and needs.	A briefing on IAI activities and needs to be made to D. Everell.
USA (NOAA/OGP)	<ul style="list-style-type: none"> <li>• To expand the funding basis of the next IAI announcement of opportunity;</li> <li>• To obtain support to conduct a synthesis analysis of results emerging from climate variability - ISP projects.</li> </ul>	Meeting with Lisa Farrow, Jonathan Pundsack, and Jim Buizer.	NOAA/OGP to consider a support to enlarge the funding basis of the next IAI announcement of opportunity.
Chile	To revitalize its participation at institutional level and update due voluntary contributions.	Institutional communications sent to various CONICIT officials.	No results yet.
Paraguay	To delineate mechanisms allowing the payment of due voluntary contributions.	Work with the University of Asunción to have part of the total due payment made to the IAI.	The University of Asunción has authorized the School of Science to proceed with the payments (2 years) of the Paraguay's voluntary contribution (June 2001).

The IAI Director took advantage of his participation in the *Meeting of Environment Ministers of the Americas* held in Montreal (March 29-30, 2001), to have brief meetings with several high level authorities of Environmental and National Resources Divisions of various countries. They were:

- Ministry of Environment of Paraguay, Juan F. Facetti
- Secretary of Environment and Natural Resources of the Dominican Republic, Frank Moya Pons,
- Senior Assistant to the Ministry of Environment and Natural Resources of El Salvador, Edgar Hasbún,
- Executive Secretary of the National Commission of Protected Areas of Guatemala, Juan J. Narciso Chua.

#### D. Missions to International Agencies

- *Inter-American Development Bank (IDB)*
  - a) A meeting between the IAI EC Chair, the IAI Director, and the IDB President, Mr. Enrique Iglesias, is scheduled for June 27 (Washington D.C.).

- b) Paul Filmer and the IAI Director met with Dr. Walter Arensberg (Chief of the Environment Division) on April 25. The IDB is interested in having a series of internal seminars on global environmental change issues for its staff with the participation of IAI scientists and authorities.

#### E. IAI Visibility in the Region

A series of activities already accomplished or in progress is summarized in this section. These activities, as a whole, are increasing the IAI visibility. (Please see table 4). Some of them are further described in this report or in separate documents.

**Table 4**

<b>Level</b>	<b>Meeting, Conference, Program/Project, Publications</b>	<b>IAI Participation</b>
Institutional	<ul style="list-style-type: none"> <li>Meeting of Environment Ministers of the Americas, Montreal, Canada (March 29-30, 2001)</li> </ul>	<ul style="list-style-type: none"> <li>Observer</li> <li>Presentation to the plenary on the IAI's goals and present accomplishments.</li> </ul>
Public	<ul style="list-style-type: none"> <li>Encyclopedia of Global Environmental Change, Vol. 5 "Responding to Global Environmental Change". John Wiley &amp; Sons.</li> </ul>	<ul style="list-style-type: none"> <li>"IAI (Inter-America Institute for Global Change)". Acronyms (300 words)</li> </ul>
Scientific	<ul style="list-style-type: none"> <li>International Group Funding Agencies Meeting, Zurich (Oct. 2000).</li> </ul>	<ul style="list-style-type: none"> <li>"The IAI, regional network for global change research in the Americas.</li> </ul>
	<ul style="list-style-type: none"> <li>Symposium on "Science and Technology in Latin America, Financing and International Cooperation." Am. Assoc. Adv. Science meeting (Feb. 17)</li> </ul>	<ul style="list-style-type: none"> <li>Conference: "IAI, an existing mechanism to promote regional and multidisciplinary collaboration in the Americas".</li> </ul>
	<ul style="list-style-type: none"> <li>The Western Hemisphere Knowledge Partnership (WHKP) Initiative: Public Session at the Spring Meeting of the AGU (May 31, 2001)</li> </ul>	<ul style="list-style-type: none"> <li>Conference: The IAI context and WHKP initiative</li> <li>IAI nominated as part of the core group of institutions leading this initiative.</li> </ul>
	<ul style="list-style-type: none"> <li>Open Conference of the IGBP, Amsterdam (July 2001)</li> </ul>	<ul style="list-style-type: none"> <li>Papers and Posters presentations by the IAI PIs and Co-PIs of ISP, CRN, and PESCA programs.</li> </ul>
	<ul style="list-style-type: none"> <li>3<sup>rd</sup> Open Meeting of the Human Dimensions of Global Environmental Change, Rio de Janeiro, Brazil (Oct. 2001)</li> </ul>	<ul style="list-style-type: none"> <li>Co-organizer and co-sponsor of the meeting.</li> </ul>
	<ul style="list-style-type: none"> <li>Climate Variability and Agriculture Program (CLIMAG)</li> </ul>	<ul style="list-style-type: none"> <li>The IAI is part of the CLIMAG Steering Group.</li> </ul>
	<ul style="list-style-type: none"> <li>Regional Workshop on Sustainability Science: Brazil (2<sup>nd</sup> half 2001 or 1<sup>st</sup> half 2002)</li> </ul>	<ul style="list-style-type: none"> <li>Convener with ECLAC, UNESCO, and the Kennedy School of Government of Harvard University.</li> </ul>
	<ul style="list-style-type: none"> <li>Publications in peer-review journals acknowledging the IAI support (as listed in the IAI Annual Report 1999/2000)</li> </ul>	

## II. PROGRAMMATIC DEVELOPMENT

### A. Initial Science Program (ISP)

All projects started under rounds I and II of the ISP are completed. Four out of sixteen projects composing its round III are also completed, the final reports of the remaining projects are supposed to be sent to the IAI still this year. The table of annex 1 summarizes the current status of the program development.

*Table 5: Status and Funding of the ISP*

Round	# of awards	IAI funding	Status
I	11	1,239,585	completed
II	12	999,103	completed
III	16	1,599,700	4 projects completed
<b>Total</b>	<b>39</b>	<b>3,838,388</b>	

A preliminary analysis of the scientific productivity of the program - as measured by the scientific publications, support for training and education, and network building - as well as some of the social and policy implications of the emerging information, was made by Brad Wilcox and published on the IAI Newsletter #23 (May-Oct. 2000). No further work has been done since then.

**However, the very important investment made by the IAI in the ISP Program demands a synthesis work of the program upon its completion in 2001. That is why the IAI SAC and the IAI Directorate have agreed to recommend that the IAI hold a Conference to capture and revise the accomplishments of the ISP Program in 2002. At this Conference, each project should present a synthesis of the work done, and the final product would be a book (or a series of books) edited by the IAI. (Further information on these initiatives will be given at the EC/CoP meetings by the IAI SAC Chair).**

In the meantime, the final reports of the ISP I and II have been saved in a CD and will be distributed to the IAI representatives at the upcoming EC and CoP meetings.

### B. Collaborative Research Network (CRN) Program

The present status of the CRN Program implementation, both in terms of its scientific development and administrative management, is reported in the document 9.ECXIII/CoPVIII/DID/English and will be presented by Reynaldo Victoria and Eduardo Banús at the EC/CoP meetings.

### C. Program to Expand Scientific Capacity in the Americas (PESCA)

None of the PESCA projects has finished, although all of them (but one) are expected to finish in 2001. Tables of annex 2 summarize the current status of the program. Some difficulties faced because of the delay of the PIs in signing the contracts and/or in the disbursement of funds to the Co-PIs have to be noticed and need to be considered when this program is evaluated.

### D. Some Statistics of the IAI Programs

Below you will find some statistics of the IAI programs in terms of number of scientists involved, students trained, and funding support.



1) *Scientists and countries involved*

Table 6 summarizes the number of scientists who participated or are participating in IAI programs, either as PIs or Co-PIs. Column A indicates the number of PIs and Co-PIs involved in all IAI projects, with no consideration whether the same investigator is counted as PI or Co-PI more than once. Column B shows the number of scientists participating in IAI programs, each one counted only once.

**Table 6**

	<b>A</b>	<b>B</b>
<b>PI</b>	100	73
<b>Co-PI</b>	526	386

Table 7 shows the same numbers of scientists (in both cases) but distributed by countries.

**Table 7: PI's and Co-PI's distribution by countries.**

<b>COUNTRIES</b>	<b>A</b>			<b>B</b>		
	<b>PI</b>	<b>CoPI</b>	<b>Total</b>	<b>PI</b>	<b>CoPI</b>	<b>Total</b>
Argentina	13	72	85	9	49	58
Brasil	11	80	91	6	53	59
Canada	10	27	37	6	24	30
Chile	4	40	44	4	34	38
Colombia	0	15	15	0	10	10
Costa Rica	0	17	17	0	13	13
Cuba	2	6	8	1	6	7
Ecuador	2	20	22	1	14	15
Jamaica	0	6	6	0	3	3
Mexico	11	47	58	6	38	44
Panama	1	17	18	1	12	13
Paraguay	0	4	4	0	4	4
Peru	4	17	21	3	11	14
Uruguay	3	19	22	3	14	17
USA	37	115	152	32	82	114
Venezuela	2	11	13	1	8	9
<i>Japan</i>	0	1	1	0	1	1
<i>South Africa</i>	0	1	1	0	1	1
<i>Germany</i>	0	1	1	0	1	1
<i>France</i>	0	1	1	0	1	1
<i>Bolivia</i>	0	8	8	0	8	8
<i>Australia</i>	0	1	1	0	1	1
<b>TOTAL</b>	<b>100</b>	<b>526</b>	<b>626</b>	<b>73</b>	<b>386</b>	<b>459</b>

A: The same investigator counted any time he (she) participates in an IAI program.

B: Each investigator is counted only once in his (her) participation in IAI programs.

## 2) Training

Support to students has been strong in the ISP and it is also important in the CRN Program. Table 8 shows that at least 92 students have been actively involved in research activities of the ISP. Graduate level training (MSc, PhD), has been emphasized as shown by the number of graduate students. Information obtained from seven out of fourteen CRN projects shows that the trend continues to be the same.

**Table 8: Student participation in ISP and CRN Programs**

Level	ISP	CRN *	Training Areas
BSc	22	7	Themes of the IAI Science Agenda
MSc	55	5	
PhD	15	17	

\* information gathered from 7 CRN projects.

## 3) Level of funding

Funding of IAI programs, including both direct funding and additional and/or parallel funding is given in table 9.

**Table 9**

Program	Direct Funding		Additional/Parallel Funding	
	Amount	Sources	Amount	Sources
SG	1,794,077	NSF		
ISP	3,838,388	NSF, NASA, NOAA	(under survey)	
CRN	10,446,438	NSF, Arg. Ag., NOAA	12,556,242 *	- Member countries - Foundations - International Organizations
PESCA	273,523	NSF		

\* Information provided by the CRN PIs.

## 4) Scientific Publications

A section of the 1999/2000 Annual Report summarizes published, accepted/in press, and submitted papers totally or partially derived from IAI projects.

## III. TRAINING AND EDUCATION

A detailed report on training and education activities has been prepared by Marcella Ohira Schwarz, IAI Communications and Training and Education Officer, and is presented to the EC through the document 13.ECXIII/DID/English/June 5, 2001.

Here, only some specific considerations regarding the IAI/UM Summer Institute are made. The Institute is currently in its third year of activity (detailed information on the IAI/UM Summer Institutes is available on the Web: <http://www.rsmas.miami.edu/IAIUM>).

1) *Background:*

a) The IAI/UM Summer Institute on “Interdisciplinary Global Change Science in the Americas” was made possible through a NSF grant awarded to the University of Miami for a 3-year period. It was the result of a collaborative effort between the UM and IAI. The central goal of the Institute is to foster effective communication and collaboration between natural and social scientists from the Americas.

b) Each year, the Institute is organized based on a regionally important global change issue with societal relevance (table 10).

**Table 10:** *IAI/UM Summer Institute Themes*

Year	Themes
1	Interactions between Seasonal to Inter-Annuals Climate Variability and Human Systems
2	Environmental and Social Implications of Land-use and Land-cover in the Americas.
3	Integrated Management of Water Resources in the Americas

c) **Table 11:** *Countries/Students participating in the IAI/UM Summer Institute*

Countries	Year 1		Year 2		Year 3	
	# applications	# participants	# applications	# participants	# applications	# participants
Argentina	13	3	10	3	12	2
Brazil	13	3	14	3	19	3
Canada	1	1	7	1	8	2
Chile	3	1	1	-	3	1
Colombia	1	-	9	1	2	1
Costa Rica	3	1	1	-	0	-
Cuba	6	1	5	1	1	-
Dom. Rep.	1	-	1	1	0	-
Ecuador	5	-	2	-	3	1
Guatemala	-	-	-	-	-	-
Jamaica	1	1	2	1	2	1
Mexico	12	3	5	1	10	2
Panama	1	-	-	-	1	1
Paraguay	1	1	1	-	1	1
Peru	2	-	6	2	7	2
Uruguay	2	1	3	2	2	1
USA	15	3	13	4	19	3
Venezuela	3	1	0	-	1	1
<b>TOTAL</b>	83	20	83	20	91	22

d) Selection criteria: The selection of candidates was conducted with the participation of representatives from the two organizing Institutions (IAI and UM/RSMAS), and the two Institute leaders. Institute participants were selected on the basis of the following criteria:

- Academic and/or professional record;

- Demonstrated motivation, interest and qualification to pursue multidisciplinary research;
- Conceptual clarity of the application essay (Statement of interest);
- Relevance of the Institute's theme to the applicant's current research or professional activities;
- Participation in on-going or planned IAI-sponsored research;
- References;
- Geographic distribution and gender balance along with an equilibrium in the number of nature and social scientists were also an important criteria for the selection of the participants.

2) *A Preliminary Evaluation*

Although at the completion of the 3<sup>rd</sup> Summer Institute (August 2001) a more complete analysis and evaluation of the IAI/UM Summer Institute will be made by Otis Brown/Armando Rabuffetti/Guillermo Podestá/Marcella Ohira Schwarz, it seems now appropriate to highlight some of the main Institute's achievements.

c) Evaluation by the participants:

Ranking	Year 1	Year 2
Excellent	2	5
Very Good	17	13
Good	1	-
Fair	-	-
Poor	-	-

d) Additional Remarks:

- A steady high number of applications were received for the 3 years. The representatives from IAI and UM participating in the selection process have noted a remarkable increase in the academic/scientific/professional experience qualifications of applicants when comparing year 1 to year 2 and 3. A significant number of applications from scientists with recognizable experience in leading research and/or research administration was noticed in the third year of the Institute.
- The Institute's brought about important connections between natural and social scientists. These connections were not only between them but also between them and the Institute's leaders, the University of Miami and/or the IAI itself. Two out of eleven projects awarded under the PESCA program resulted from initial project formulations conducted in the First Summer Institute. Networks on "land-use land-cover change issues" including natural and social scientists from Argentina, Brazil, and the USA started as a result of the Second Summer Institute.
- **It is both the SAC's and the Director's perception that the Summer Institute has been a very successful activity to advance on IAI's goals of promoting capacity building, multidisciplinary and multinational collaboration. The SAC at its fifteenth meeting in São José dos Campos strongly recommended that the IAI continues with this type of activity.**

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IV. ADMINISTRATIVE ISSUES

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## Appointment of IAI Staff

- *Financial Officer (FO)*: Silvio Bianchi started to work as the IAI Financial Officer on January 1<sup>st</sup>, 2001.
- *Scientific Officer (SO)*: (Please find below a summary – up to June 15<sup>th</sup>, 2001) – of the recruitment and selection process for the IAI Scientific Officer position:

Steps	Dates	Action
Announcement	Oct. 2000 - Jan. 2001	IAI Director: Posted on Science, Nature, IAI Newsletter, and IAI homepage. Distributed through the IAI list server as well as to International Organizations and Agencies, the EC and CoP Representatives, and the SAC members.
20 applications received: Argentina (3), Brazil (3), Canada (1), Colombia (1), Cuba (1), England (2), Ecuador (1), Germany (3), Uruguay (1), USA (4) *	February 2001	The Advisory Committee - Margaret Leinen (USA), John Stewart (SAC), Luiz Bevilacqua (SAC) – received the CVs.
Definition of a short list of 5 candidates for interviews.	May 2001	Margaret Leinen, Luiz Bevilacqua, John Stewart, the IAI Director.
Personal interviews ** (5 finalists).	June 2001	Margaret Leinen, Luiz Bevilacqua, John Stewart, the IAI Director.

\* One of the candidates (from Brazil) withdrew early May 2001.

\*\* One of the selected candidates for final interviews withdrew early June 2001, before the personal interviews.

**(Annex 1)**

<b>PROJECT TITLE</b>	<b>ISP</b>	<b>III</b>	<b>PROJECT</b>	<b>STATUS</b>		
		<b>PI</b>		<b>PROGRESS REPORT</b>	<b>FINAL REPORT</b>	<b>STATUS</b>
Training and Education in the context of the LBA Experiment. A. <u>US\$ 100,000</u>		Nobre, Carlos A.		Yes	---	On going
Effects of Species and Functional Diversity on Ecosystem Function: A comparison between Arctic Tundra and a Temperate Grasslands / Shrubland System. B. <u>US\$ 116,000</u>		Diaz, Sandra M.		Yes	---	On going
The Impact of Accelerated Sea Level Rise on Nutrient Cycling and Productivity in Karst and Deltaic Ecosystems in the Gulf of Mexico and Caribbean Area: Ecological and Socio-Economic Implications. C. <u>US\$ 116,000</u>		Day Jr., John W.		Yes	---	On going
Benefits of incorporating ENSO forecasts into reservoir operation and hydroelectric power distribution procedures. D. <u>US\$ 117,000</u>		Waylen, Peter		Yes	---	On going
UNAM-UCR-NCAR Tutorial on Regional Weather and Climate Modeling for Latin America. E. <u>US\$ 27,000</u>		Warner, Thomas		---	Yes	Ended
Applications of Multiple Lead-Time Climate Predictions in the Region of Central America and the Caribbean. F. <u>US\$ 81,000</u>		Diaz, Henry F.		---	Yes	Ended
Variations in Spatial and Temporal Precipitation Patterns in the Trade Convergence Region. G. <u>US\$ 103,000</u>		Donoso, Maria C.		Yes	---	On going
Estimation of ENSO Effects on sugar cane yields in several Latin-American countries. H. <u>US\$ 30,000</u>		Utset, Angel		Yes	---	On going
Global Change Effects on Biogeochemical and Hydrological Determinants of Structure and Function in Cerrado Ecosystems. I. <u>US\$ 116,200</u>		Franco, Augusto		Yes	---	On going
Relationships between the Antarctic Vortex Dynamics, Chemistry, Ozone Depletion and Southern Midlatitude Stratosphere and Upper		Canziani, Pablo O.		Yes	---	On going

Troposphere. J. <u>US\$ 117,000</u>				
A regional assessment of landuse impact on ecosystem function and structure in temperate areas of North and South America. K. <u>US\$ 116,200</u>	Paruelo, José M.	Yes	---	On going
Spawning Habitat of Small, Pelagic Fish in Relation to ENSO and Global Change. L. <u>US\$ 117,000</u>	Checkley, David	Yes	---	On going
An International Study on the Health Effects of ENSO in the Americas. M. <u>US\$ 87,300</u>	Confalonieri, U.	Yes	---	On going
Earth System and Global Change Education Workshops: Building IAI Capacity with a Science and Education Network. N. <u>US\$ 117,000</u>	Johnson, Donald	---	Yes	Ended
Comparative Assessment of Agricultural Uses of ENSO-Based Climate Forecasts in Argentina, Mexico and Costa Rica. <u>US\$ 117,000</u>	Jones, James W.	---	Yes	Ended
Natural and Anthropogenic Control on the Hydrology and Biogeochemistry of a Meso-Scale Andean Amazon River Catchment: Integrating Andean Systems into Basinwide Investigation. <u>US\$ 117,000</u>	Llerena, Carlos A.	Yes	---	On going

(Annex 2)

## PROGRAM TO EXPAND SCIENTIFIC CAPACITY IN THE AMERICAS - PESCA

TITLE	PI / COUNTRY	NEW COUNTRY	TOTAL US\$
Analyzing and understanding climate variability in the Caribbean Islands	Magaña, Victor Mexico	Jamaica	22,000
Predicting ENSO effects on sugar cane yields using a weather-generator and mechanistic crop modeling	Utset, Angel Cuba	Ecuador / Jamaica	24,600
Impact of forestry on Uruguayan grasslands: changes in land-use patterns and ecosystem functioning	Paruelo, José Argentina	Uruguay	25,900
Downscaling activities and their applications of studies of climate variability and change in South America	Nobre, Carlos Brazil	Venezuela	15,000
An inventory of Disasters in Chile, ENSO and non-ENSO related: A La Red-Chile Project	Franco, Eduardo Peru	Chile	30,000
Efectos de los cambios globales sobre la diversidad de la vegetación en ecosistemas insulares y continentales	Silva, Juan Venezuela	Cuba	28,000
When oceans conspire: Examining the effect of concurrent SST Anomalies in the Tropical Atlantic and Pacific on Caribbean Rainfall	Cornejo, Pilar Ecuador	Jamaica	25,000
Characterization of stratospheric and upper tropospheric aerosols over Central and South America	Canziani, Pablo Argentina	Cuba	29,923
Estudios dendrocronológicos de eventos El Niño y otras variaciones climáticas	Luckman, Brian Canada	Peru	26,600
Mercury in Andean Amazon river catchments – MAARC Project	McClain, Michael United States	Ecuador / Canada	30,000
Aplicación de modelos numéricos de alta resolución en la simulación de la circulación atmosférica a escala local y regional en áreas del Caribe	Magaña, Victor Mexico	Cuba	16,500
		<b>TOTAL</b>	<b>US\$ 273,523</b>

2000, November



## PROGRAM TO EXPAND SCIENTIFIC CAPACITY IN THE AMERICAS - PESCA

TITLE	PI / COUNTRY	NEW COUNTRY	DATE OF CONTRACT SIGNED BY PI	DATE THE CONTRACT WAS RECEIVED	DATE OF PAYMENT
Analyzing and understanding climate variability in the Caribbean Islands	Magaña, Victor Mexico	Jamaica	12/Jul/00	19/Jul/2000	09/Aug/00 US\$ 11,000
Predicting ENSO effects on sugar cane yields using a weather-generator and mechanistic crop modeling	Utset, Angel Cuba	Ecuador / Jamaica	13/Jul/00	22/Sep/00	<i>In process</i>
Impact of forestry on Uruguayan grasslands: changes in land-use patterns and ecosystem functioning	Paruelo, José Argentina	Uruguay	15/Jun/00	29/Jun/00	07/Jul/00
Downscaling activities and their applications of studies of climate variability and change in South America	Nobre, Carlos Brasil	Venezuela	09/Aug/00	10/Aug/00	10/Aug/00
An inventory of Disasters in Chile, ENSO and non-ENSO related: A La Red-Chile Project	Franco, Eduardo Peru	Chile	11/Sep/00	22/Sep/00	22/Sep/00
Efectos de los cambios globales sobre la diversidad de la vegetación en ecosistemas insulares y continentales	Silva, Juan Venezuela	Cuba	13/Jul/00	19/Jul/00	09/Aug/00 US\$ 14,000
When oceans conspire: Examining the effect of concurrent SST Anomalies in the Tropical Atlantic and Pacific on Caribbean Rainfall	Cornejo, Pilar Ecuador	Jamaica	28/Aug/00	28/Aug/00	28/Aug/00
Characterization of stratospheric and upper tropospheric aerosols over Central and South America	Canziani, Pablo Argentina	Cuba	16/Jul/00	28/Aug/00	28/Aug/00
Estudios dendrocronológicos de eventos El Niño y otras variaciones climáticas	Luckman, Brian Canada	Peru	26/Jun/00	07/Jul/00	07/Jul/00
Mercury in Andean Amazon river catchments – MAARC Project	McClain, Michael United States	Ecuador / Canada	15/Jun/00	23/Jun/00	07/Jul/00
Aplicación de modelos numéricos de alta resolución en la simulación de la circulación atmosférica a escala local y regional en áreas del Caribe	Magaña, Victor Mexico	Cuba	12/Jul/00	19/Jul/00	09/Aug/00 US\$ 8,250

Date PESCA Grant Approved:            May 31, 2000  
Date PESCA Contract Sent to PIs:        June 5, 2000

2000, November