

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

**November 1999
Report of the Director to the 10th EC Meeting
Caracas, Venezuela**

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c/o INPE

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Report of the Director to the 10th EC Meeting

In this report, an up-date of the IAI's on-going activities along with the Directorate's main actions for the period of June 15 – November 08, 1999, are presented.

More information and analysis on some items only listed or briefly reported here are provided in other documents to be distributed to the EC representatives and will be discussed during the meeting.

November 9th, 1999

I. INSTITUTIONAL ASPECTS

A. Missions in IAI countries

Argentina: The EC Chair, the IAI Director and the CRN Manager has had another meeting with the staff of the *Agency for the Promotion of Science and Technology* to further adjust the implementation of the support given by Argentina to the CRN program.

Results: A complementary agreement to the Framework Agreement signed in Arlington in June 1998 has been signed: the projects to be cofunded by the IAI and the Agency have been identified as well as the contributions from both the Agency and the IAI in each project. Also, the administrative procedures to the management of the projects have been agreed taking into consideration whether the project involved Argentineans PIs or Co-PIs (see annex 1).

Venezuela: The EC Chair and the IAI Director visited Venezuela on September 05-07, 1999. Meetings were held with the National Council for Science and Technology (CONICIT) and visits were made to the University of Simon Bolivar, The Universidad Central de Venezuela, the IVIC (Venezuelan Institute for Scientific Research), and the Ministry for Environment and Natural Resources. A presentation on IAI's institutional goals and programmatic and scientific activities was made to an audience composed of scientists and managers of research and educational institutions. Lelys Bravo and Abraham Salcedo permanently supported the entire visit.

Results: 1) A Framework Agreement between the IAI and the CONICIT has been signed to further advance in developing mechanisms for joint support of global change activities (see annex 2); 2) CONICIT's interest to be more associated with the IAI in the future has led this organization to host the X EC meeting; 3) Facilities to conduct workshops, conferences or short-training courses have been offered to the IAI from both the authorities of the IVIC and the Universidad Simon Bolivar.

B. Organizational Aspects

Actions conducted during this period to implement the re-organization of the IAI Directorate (as approved by the EC at its IX meeting) were:

1. Hire of a CRN Manager: Based on an agreement reached between the IAI and the NSF, the IAI has hired Eduardo Banús since August 25, 1999, to: a) be the CRN Manager, and b) continue to lead on the preparation of proposals to GEF.

The main duties of the CRN Manager are: "Employee shall be responsible for administrating the grants under the CRN program; receiving and tracking the documentation associated with the grant; evaluating formal compliance of financial and technical requirements. The CRN Manager will work to ensure that relevant CRN information is communicated to the CRN participants. The CRN Manager will work with the Scientific Officer in rapidly communication the status of the CRN projects, to the IAI Director, the Executive Council and the Scientific Advisory Committee." (from the contract signed on August 25, 1999)

2. Administrative Officer position announcement

As you have been already informed through the IAI Directorate communication IAIDIR-147/99 (September 14, 1999), the announcement of opportunity for the position of the Administrative Officer was posted on:

- a) The Economist (Sep. 18-25, 1999);
- b) IAI Newsletter issue #20;
- c) IAI Website.

Also, and through information provided by the EC/CoP representatives, the IAI Directorate has posted the announcement on newspapers of the following member countries: Brazil, Colombia, Costa Rica, Ecuador, Mexico, Paraguay, and Uruguay. Up to November 8th, 103 applications were received. The deadline is November 30th, 1999.

II. PROGRAMMATIC DEVELOPMENT

A. Initial Science Program (ISP) Status

Tables 1, 2, and 3 summarize the status of the ISPs projects in terms of start dates, submission of progress and/or final reports for ISP I and II projects and disbursement of first and second year funds for the ISP III projects. Attached (annex 3) is the preliminary list of scientific and/or technical publications that have totally or partially emerged as a result of the IAI ISPs projects. At the EC meeting, we will provide the EC members with the final list to be published in the IAI Annual Report 1998/99.

No doubt, this impressive list of scientific publication is an indication of the IAI effectiveness in supporting global change research in the Americas since 1994, and consequently of achieving part of its institutional goals. The time is now to complete IAI's goals by undertaking activities which, based on this scientific information, will derive information of benefit to policy and decision-makers of member countries.

Table 1: ISPI Project Status

<i>Proposal Start 1999 number DateReport Report</i>	<i>Proposal Title Final</i>	<i>PI Budget</i>	
1-003 14-May-96	Request for Partial Support for a Workshop on a \$49,000 Comparative Analysis of Nitrogen Cycling in the Americas	Howarth, Robert	✓
1-005 13-Feb-97	The Last Four Centuries of the California Current \$217,560 Calibration and Interpretation from the Laminated Sediments, Tree-Rings and Historical Records of Southern Alta California and Baja California	Herguera, Juan Carlos	✓
1-012 24-Oct-96	Rainfall Studies in the Amazon Basin and Central South \$72,592 America	Diaz, Henry	✓
1-020 10-Oct-96	Hydrology Budgets for Amazonia \$124,189	Krishnamurti, T.N.	✓
1-033 27-Jun-96	Vegetation History from Fossil Rodent Middens in \$206,419 Mid-Latitude American Deserts	Betancourt, Julio	✓
1-037 16-Oct-96	A South American Modeling Center for Global Change \$97,140 Related Oceanic, Coastal and Estuarine Processes	Dias Campos, Edmo	✓
1-051 07-Nov-96	Initial Climate Research within the Trade Convergence \$127,700 Climate Complex	Enfield, David	✓
1-054 23-Aug-96	Ice-core Study on the Environment and the Climate of \$75,000 the Antarctic Peninsula and the Southern Part of South America	Aristarain, Alberto	✓
1-071 14-Aug-96	Comparative Studies in North and South America along \$75,000 an Aridity Gradient	Castellanos, Alejandro	✓
1-080 23-Oct-96	Biogeochemical Determinants of Land Cover Changes \$125,985 and Land Use in Savanna Cultivation-Grazing Systems	Tiessen, Holm	✓
1-084	Exchange through the Yucatan Strait and its Importance	Badan-Dagon, Antoine	✓

24-Apr-97

\$69,000

for Climate Change Studies

Table 2. ISP II Project Status.

<i>Proposal Start Budget number Date Report Report</i>	<i>Proposal Title 1999</i>	<i>PI Final</i>
2-011 Michael 31-Jan-98	The Impact of Climate Change on Nearshore Marine Biodiversity in the \$50,000 Gulf of California	Foster,
2-015 Eugene 08-Apr-97	Support for Short Course: Instrumentation and Measurement \$26,000 Methodologies in Atmospheric Chemistry Research	Bierly,
2-032 James F.04-Feb-97	Desertification and Ecosystem Processes: Overgrazing, Grass \$85,000 Transpiration and Soil Water Balance	Reynolds,
2-051 Osvaldo 18-Mar-97	Global Change Effects on Biodiversity and Functioning: Manipulation of \$90,000 Keystone Processes	Sala,
2-055 Mario 12-Mar-97	Climate Variability and Agriculture in Argentina and Uruguay: Assessment \$70,000 of ENSO Effects and Perspectives for Use of Climate Forecasts	Bidegain,
2-078 Navarrete, Sergio	Links Between Coastal Productivity, Benthic Communities, and 18-Mar-97 Biogeographic Boundaries in Chile and California	\$94,114
2-082 Evamaria 18-Mar-97	The Effect of UV-B Radiation on Salt-Marsh Vegetation along a Latitudinal \$94,989 Gradient	Koch,
2-085 VanGeen, Alexander	Coastal Upwelling along the Western Americas: Past, Present and Future 27-Mar-97	\$117,000
2-111 Pisciottano, Gabriel	Precipitation in Southeastern South America: Influence of Sea Surface 04-Nov-97 Temperatures, Predictability and Variability	\$90,000
2-112 Jose 27-Jun-97	Diagnosing, Monitoring and Predicting Cold Waves (Frigens) in Coffee \$67,000 Growing Areas of Southeastern Brazil	Marengo,

2-124	Biophysical Coupling in the Pelagic Ecosystems of the Southern California	17-Nov-97	\$100,000
Baumgartner, Timothy		Current	
2-135	A South American Network for the Measurement of Ultraviolet Radiation		
Vernet, Maria		22-Jul-97	\$115,000

Table 3. ISP III Project Status

Proposal Budget Year Date: number Funds Year 1 Funds Year 2	Proposal Title 1st Year	PI Date:	Project 2nd
3-011 \$100,000	Training and Education in the Context of the LBA Experiment \$50,000	Nobre, Carlos 20-Aug-98	
3-018 \$116,000 07-Jul-99	Effects of Species and Functional Diversity on Ecosystem Function: \$60,700	Diaz, Sandra Myrna 28-May-98	\$35,634
	A Comparison Between Artic Tundra and a Temperate Grassland/Shrubland System		
3-019 \$116,000	The Impact of Accelerated Sea Level Rise on Nutrient Cycling and Productivity in Karst and Deltaic Ecosystems in the Gulf of Mexico \$49,780	Day, John 21-Jul-98	

and Caribbean Area: Ecological and Socioeconomic Implications

3-022 \$117,000	Benefits of Incorporating ENSO Forecasts into Reservoir Operation and Hydroelectric Power Distribution Procedures	Waylin, Peter 15-May-98	\$69,820
3-029 \$27,000	UNAM/NCAR Tutorial on Regional Weather and Climate Modeling for South America	Warner, Thomas 01-May-99	\$27,000
3-030 \$36,000 Sep-99	Applications of Multiple Lead-Time Predictions in the Region of Central America and the Caribbean	Diaz, Henry 29-Jul-98 \$25,000	\$81,000 27-
3-032 \$103,000	Variations in Spatial and Temporal Precipitation Patterns in the Trade Convergence Region	Donoso, Maria 01-Jul-98 Concepción	\$58,087
3-041 \$20,000 Oct-99	Estimación del Efecto de El Niño--Oscilación Sur en el rendimiento de la Caña de Azúcar	Utset, Angel 07-Oct-98 \$10,000	\$35,000 14-
3-051 \$116,200 06-Jul-99	Global Change Effects on Biogeochemical and Hydrological Determinants of Structure and Function in Cerrado Ecosystems	Franco, Augusto 12-May-98 Cesar	\$52,200 \$38,000
3-076 \$117,000 22-Jun-99	Relationships Between the Antarctic Vortex Dynamics, Chemistry, Ozone Depletion and Southern Midlatitude Stratosphere and Upper Troposphere	Canziani, Pablo 08-May-98 Oswaldo	\$44,700 \$40,700
3-077 \$116,200 22-Sep-99	A Regional Assessment of Landuse Impact on Ecosystem Function and Structure in Temperate Areas of North and South America	Paruelo, José 01-Jul-98	\$65,000 \$32,800
3-082 \$117,000	Spawning Habitat of Small Pelagic Fish in Relation to ENSO and Global Change	Checkley, David 13-Jul-98	\$88,000
3-089 \$69,830	An International Study on the Health Effects of ENSO in the Americas	Confalonieri, Ulisses 17-Dec-98	\$87,300

***Proposal
Project Budget***

***Proposal Title
1st Year***

***PI
Date:***

2nd

Year Date:
number

3-130	Earth System Science and Global Change Education Workshops:	Johnson, Donald
\$117,000	\$117,000	01-Jul-98
	Building IAI Capacity with a Science and Education Network	
3-132	Comparative Assessments of Agriculture Uses of ENSO-Based	Jones, Jim
\$117,000	\$68,950	01-Jul-98
\$48,050	07-Oct-99	
	Climate Forecasts in Argentina, Mexico, and Costa Rica	
3-134	Natural and Anthropogenic Controls on the Hydrology and	Llerena, Carlos
\$117,000	\$65,000	20-May-98
	Biogeochemistry of meso-scale Andean Amazon River Catchments:	
	Integrating Andean Systems into Basinwide Investigations	

B. Collaborative Research Network (CRN) Program

- Table 4 summarizes the status of implementation of the Program, as related to contract agreement and disbursement of first year funds. (A copy of the contract agreement between the IAI and the Grantee – home institution of the PI – is also included in the package of documents being sent to EC members.)

Table 4: *Status of CRN implementation as related to contract agreement and disbursement of first year funds.*

PI	Project Title	Contract Agreement		First Year Funds	
		Sent	Signed	\$	Transferred
Luckman	The assessment of present, past and future climate variability in the Americas from tree-like environments.	Aug. 10	Oct. 14	164,000	Nov. 09
Magaña	Climate variability and its impacts in the Mexican, Central American and Caribbean region.	Aug. 10	---	68,100	---
Campos	SACC: An international consortium for the study of global and climate changes in the eastern south Atlantic.	Aug. 10	Aug. 08	183,000	Aug. 25
Cornejo	Multi objective study of climate variability for impact mitigation in the Trade Convergence Climate Complex Region.	Aug. 10	---	168,100	---
Nuñez	Development of a Collaborative Research Network for the study of regional climate variability and changes, their prediction and impact in the MERCOSUR area	Aug. 10	---	150,030	---
Baumgartner	Comparative studies and assessments of the impacts of global change on the pelagic and near shore ecosystems of the North and South Pacific Eastern Boundary Currents.	Aug. 10	Oct. 15	164,000	Nov. 09
Silva	Comparative studies of global change effects on the vegetation of two tropical ecosystems: the high mountain and the seasonal savanna.	Aug. 10	---	158,500	---
Sala	The effects of biodiversity on ecosystem functioning: a comparison across the Americas.	Aug. 10	Nov. 01	187,000	Nov. 09
Vernet	Enhanced Ultraviolet-B Radiation in Natural Ecosystems as an added Perturbation due to Ozone Depletion.	Aug. 10	Sep. 16	164,000	Nov. 09

Tiessen	Biogeochemical cycles under land use change in the semiarid Americas.	Aug. 10	Oct. 29	161,000	Nov. 09
McClain	Andean Amazon Rivers Analysis and Monitoring (AARAM) Project	Aug. 10	Aug. 30	184,222	Oct. 28
Wood	Cattle, land use and deforestation in the Amazon: a comparative study.	Aug. 10	---	165,000	---
Franco	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.	Aug. 10	Oct. 09	164,592	Nov. 09
Confalonieri	Diagnostics and prediction of climate variability and human health impacts in the tropical Americas.	Aug. 10	---	165,000	---

Basically, three reasons account for the delay between the reception of the contract and the signature by the Grantee:

- a) Some PIs were doing field works when the grant was sent to their institutions and did not respond until several weeks after.
 - b) Analysis of the contract within the Grantee – as informed by some PIs – is taking considerable amount of time. There were cases that an Spanish version ought to be sent to the Grantee. There have been even cases that PIs realized only now that the distribution of funds from the grantee to others Co-PIs' institutions would involve some administration costs that they did not budget.
 - c) Some Grantees were reluctant to sign the contract without further discussion and understanding of the section 4 (Forum) of the proposal grant contract.
- The funding of the program - up to date - is based on:
 - NSF Grant (ATM 9907233), awarded on June 15, 1999 under the following conditions:

“This project, under the direction of Bradford Wilcox is entitles Collaborative Research Network – A network for Global Change Research in the Americas. This award is effective June 15, 1999, and expires May 31, 2000. This is a continuing grant, which has been approved on scientific/technical merit for approximately 5 years. Contingent on the availability of funds and the scientific progress of the project, NSF expects to continue support at approximately the following levels:

FY 2000...\$ 2,000,000	FY 2002...\$ 2,000,000
FY 2001...\$ 2,000,000	FY 2003...\$ 2,000,000”
 - The agreement between the Agency for Promotion of Science and Technology of Argentina and the IAI, through which the Argentinean government will be cofunding up to 75% of the grant requested by the research group or groups from Argentina institutions taking part in the selected projects. The Argentinean contribution for first year is \$ 210,755.

- NOAA's Office of Global Programs to support in the amount of \$ 100,000 specific activities of 4 CRN projects on the themes "Understanding Climate Variability in the Americas" and "Human Dimensions and Applications" of the IAI Science Agenda.

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

A separate document is being prepared at the IAI Directorate; it will be sent to the EC representatives after the process of review of proposals is completed and the Directorate assembles the final recommendations (last week of November). The Review Panel Meeting is scheduled for November 15-16 and the SAC meeting for November 18-19, 1999.

III. CAPACITY BUILDING

A. IAI-DIS

Luis Achite, the IAI DIS Manager, will present a report on the IAI-DIS at the meeting updating on the establishment of the central node and the peripheral nodes in Uruguay and Costa Rica.

B. Training and Education

1. IAI-UM Summer Institute 1999 and 2000

The first IAI/UM Summer Institute took place at the Rosenstiel School of the University of Miami, Florida, USA. between July 11 and July 30, 1999. The theme was "Interactions between Seasonal to Inter-Annual Climate Variability and Human Systems." The 1999 Institute explored links between climate variability associated mainly with the El Niño-Southern Oscillation (ENSO) phenomenon and important socio-economic sectors (e.g., agriculture, management of water resources). In particular, the Institute explored the implications of the emerging capability to forecast the occurrence of ENSO events with lead times of several months, and the feasibility of incorporating this information into decision-making or policy-making processes.

A WWW site has been developed for the Summer Institute. The site includes general information about the Summer Institute objectives and eligibility criteria, as well as detailed information about the 1999 Institute, ranging from brief profiles of Institute participants, to a detailed program of activities, lecture notes, and results from the mini-projects. The WWW address is <http://www.rsmas.miami.edu/IAIUM>.

Twenty participants (Table 5) from 12 IAI Member Countries were selected for the 1999 Summer Institute after a rigorous process involving the review of over 85 complete applications. The participants ranged from a few advanced graduate students to a couple of senior scientists. Most participants were in the 30-35 year age range, had a post-graduate degree, and were actively involved in research and/or teaching in their home institutions.

Two experienced scientists with complementary backgrounds led the first Summer Institute. Dr. Diana Liverman, Director of the Latin American Studies program at the University of Arizona, USA, coordinated the social science component. Dr. Alice Grimm, from the Federal University of Paraná, Brazil, and a visiting scientist at the International Research Institute for Climate Prediction (IRI) led the natural sciences component. Recognized experts on interannual climate variability and its effects on human systems presented a series of guest lectures during the First Institute. A list of guest lecturers is presented in Table 6.

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The first Summer Institute involved a broad variety of activities in addition to the lectures. Participants completed two hands-on research mini-projects. The first mini-project focused on ENSO and agricultural production in Argentina, and was coordinated by Dr. James Hansen (University of Florida, USA) with assistance from Mr. Carlos Messina (University of Buenos Aires, Argentina). Dr. Remigio Galarraga (Escuela Politécnica Nacional, Ecuador), and Dr. Edison Heredia-Calderón (Instituto Nacional de Meteorología e Hidrología, Ecuador) coordinated the second mini-project, focused on climate variability and water resources in Ecuador. Participants also engaged in several participatory activities, including various role-playing exercises, preparing a regional seasonal forecast based on climate information from several sources (assembled by Brazil's CPTEC), and developing and conducting a small field survey on public perceptions of climatic risk. To gain experience in the design of scientific projects, teams of participants wrote two-page research pre-proposals. Participants subsequently evaluated the pre-proposals following the guidelines and procedures actually used by the IAI for project review.

An evaluation of the Summer Institute 1999 was made by all participants when asked “How would you evaluate the summer institute overall (Please consider scientific programs, organization, structure, logistical arrangements, interactions with other participants, leaders, lecturers.)”, the response was: (2) Excellent; (17) Very good; (1) Good; (-) Fair; (-) Poor.

Table 5: *List of participants in the 1999 IAI/UM Summer Institute.*

Participant	Country
Cecilia Conde	Mexico
Marcos Costa	Brazil
Claudine Dereczynski	Brazil
Kirstin Dow	USA
Simone Ferraz	Brazil
Alexandre Gagnon	Canada
Patricia Jaime	Argentina
Alejandro León	Chile
Ileana Mora	Costa Rica
Lino Naranjo	Cuba

Giampaolo Orlandoni	Venezuela
Thomas Pagano	USA
Andrea Ray	USA
Alvaro Roel	Uruguay
Sonia Rojas	Paraguay
Silvina Solman	Argentina
Michael Taylor	Jamaica
Angel Villalobos (departed early)	Mexico
Marta Vinocur	Argentina
Antoinette Wannebo	USA

Table 6: *List of guest lecturers in the 1999 IAI/UM Summer Institute.*

Lecturer	Affiliation
Guillermo Berri	University of Buenos Aires, Argentina
Antonio Busalacchi	NASA Goddard Space Flight Center, USA
David Enfield	NOAA Atlantic Oceanographic and Meteorological laboratory, USA
Carlos Fernández Jáuregui	UNESCO, Latin America and Caribbean Office
Paul Filmer	National Science Foundation, USA
Jim Jones	University of Florida, USA
Chris Landsea	NOAA Atlantic Oceanographic and Meteorological laboratory, USA
Jim Mjelde	Texas A&M University, USA
Carlos Nobre	CPTEC, Brazil
Roger Pulwarty	NOAA Office of Global Programs
Barrett Rock	University of New Hampshire, USA
Chester Ropelewski	International Research Institute for Climate Prediction
Caitlin Simpson	NOAA Office of Global Programs
Brad Wilcox	IAI Directorate

- A pre-announcement for the second IAI/UM Summer Institute was recently made through the IAI homepage and IAI List server. Also, the pre-announcement is being sent to all EC/CoP representatives for a wider dissemination in IAI countries.

The Inter-American Institute for Global Change Research (IAI) and the University of Miami (UM) announce the Second IAI/UM Summer Institute, to be held in Miami from July 16 to August 4, 2000. The theme selected for this year's Institute is "Environmental and social implications of land-use and land-cover change in the Americas". The Institute will explore the dynamics and interactions of land-use and land-cover change as both major inputs to, and consequences of, global environmental change. Land-use and land-cover changes have major implications for sustainable development and livelihood systems in the Americas. The Institute's theme will be explored from a multidisciplinary perspective, including both its natural and social dimensions. A preliminary program for the second Institute, as well as a list of instructors and guest lecturers will be released in late 1999. General background on the IAI/UM Summer Institute can be accessed through the WWW at <http://www.rsmas.miami.edu/IAIUM>.

Twenty applicants (approximately equal numbers of social and natural scientists) from IAI member countries will be selected to attend the second Summer Institute. Selected applicants will receive financial support covering travel to/from Miami, housing and meal expenses, and health insurance to participate in the Summer Institute. Specific information on eligibility and selection criteria, as well as instructions on applying for participation will be available soon at the Institute's WWW site. In the meantime, potential applicants can register to receive further information as soon as it becomes available by filling out an electronic form at <http://www.rsmas.miami.edu/IAIUM>.

IV. RELATIONSHIPS AND ACTIVITIES WITH OTHER ORGANIZATIONS AND PROGRAMS.

The IAI continued to support its scientists to participate in conferences/workshops/seminars involving global change themes related to its Science Agenda. In some cases, the IAI has co-sponsored the meeting, whereas in others, the IAI has only supported scientists' participation.

- 1999 Open Meeting of the Human Dimensions of Global Environmental Change Research Community (June 24-26, 1999)

The meeting was aimed at promoting exchanges of information on current research and teaching and at encouraging net working and community building in this emerging field.

The IAI was co-sponsor of this meeting and 11 scientists from the Americas were supported by the IAI and presented technical/scientific reports, which were included in the Abstracts (already published). Scientists were from Brazil, Chile, Costa Rica, Mexico, Ecuador, and USA. Diana Liverman and Marcella Ohira Schwarz also participated at the meeting.

Results: In addition to the already expected interactions among scientists of Latin America and with the international community as a whole, the IAI was invited to be one of the organizers of the 2001 Open Science Meeting to be held in Latin America (probably in Brazil). This issue will be brought at the EC meeting as one of the new initiatives that the IAI needs to undertake for the future.

- Other actions resulting from IAI increasing relationships with Human Dimension of Global Change Programs.
 1. The IAI has translated into Portuguese and Spanish the Brochure of the Global Environmental Change and Human Security Subprogram of the IHDP.
 2. As a follow-up of the Industrial Transformation workshop held at the IAI Directorate in November 1998, two Latin American scientists (Luiz Vieira, EMBRAPA - Brazil and O’Ryan, University of Chile) will be co-chairs of the planning groups for the theme: 1) Food and Human Security and 2) Governance and Industrial Transformations, respectively.
- Workshop on “Regional Climate Forecasts and Downscaling Techniques for South America” (Sept. 08-10, 1999)

This activity was aimed at: a) discussing technical issues to the use of regional atmospheric models nested in global prediction models; b) discussing the use of statistical techniques for climate forecast downscaling; c) performing an evaluation of regional climate forecasts. The workshop was co-sponsored by: National Laboratory for Scientific Computation (Brazil), INPE/CPTEC (Brazil), the IRI, the University of São Paulo and the IAI. The IAI supported the participation of 3 scientists (Argentina, Chile, Peru).

Results: As a side-result of the meeting, interaction between scientists participating in the meeting led to the presentation of a proposal to the PESCA Program announcement between Argentina and Chile.

- Climate Change and Agriculture Workshop (CLIMAG), Sept. 28-30, Gen 14 Switzerland

This workshop was organized by START/IGBP-GCTE/WCRP, and held at WMO headquarters in Geneva. The main purposes of this activity were: 1) to update the state of scientific knowledge on the relationships between climate change and agriculture; 2) to agree on future actions needed to develop a Science plan for an international project. The meeting gathered participants from Europe, Asia, Africa, Australia/New Zealand and the Americas. The IAI supported the participants of one scientist of each of the IAI on-going projects, related to this subject (the scientists were proposed by the project PIs). The IAI delegation included scientists from Argentina, Mexico, Cuba, Panama, Uruguay. The IAI Director and the EC Chair also attended the meeting.

Results: There was some disappointment among the IAI delegation because the workshop organizers did not include initially any space for the IAI to have the chance to share with other regions what activities and results have been already accomplished in the Americas. Commended efforts of the START Secretariat finally allowed for an IAI presentation. The set of activities and results already emerging from the IAI scientific

support were highlighted. As a result, the WCRP Executive Director (Dr. Grassl) requested that in the future, the IAI be part of the steering committee.

V. FINANCIAL ISSUES

- Status of voluntary contributions to the core budget

Table 7 lists the expected and obtained voluntary contributions from member countries since 1994 to date, both per year and cumulative. It has to be noted that the so called “expected” contributions are those which were agreed in the CoP IV, held in Buenos Aires, Argentina, in June 1997. At that moment, though, some country representatives (Argentina, Mexico, and Venezuela) have indicated that their countries would need some time to adjust to the increase in the voluntary contribution.

Table 7: Expected and obtained voluntary contributions from member countries since 1994 to date.

A - 1994/95 - 1995/96 - 1996/97			
	Expected	Paid	Outstanding
Argentina	40.000,00	40.000,00	-
Brazil	90.000,00	90.000,00	-
Canada	170.300,03	170.300,03	-
Chile	10.000,00	10.000,00	-
Colombia			-
Costa Rica	10.000,00	10.000,00	-
Cuba	10.000,00	10.000,00	-
Dom. Republic			-
Ecuador			-
Guatemala			-
Jamaica			-
Mexico	40.000,00	38.205,12	1.794,88
Panama	10.000,00	10.000,00	-
Paraguay	5.000,00	-	5.000,00
Peru	10.000,00	-	10.000,00
Uruguay	10.000,00	10.000,00	-
USA	385.000,00	385.000,00	-
Venezuela	5.000,00	5.000,00	-
			-
	795.300,03	778.505,15	16.794,88

B - 1997/98			
	Expected	Paid	Outstanding
			-
Argentina	35.000,00	20.000,00	15.000,00
Brazil	70.000,00	70.000,00	-
Canada	100.000,00	100.000,00	-
Chile	5.000,00	5.000,00	-
Colombia	5.000,00	5.000,00	-
Costa Rica	5.000,00		5.000,00
Cuba	5.000,00	5.000,00	-
Dom. Republic	5.000,00		5.000,00
Ecuador	5.000,00		5.000,00
Guatemala	5.000,00		5.000,00
Jamaica	5.000,00	5.000,00	-
Mexico	45.000,00	23.799,40	21.200,60
Panama	5.000,00	5.000,00	-
Paraguay	5.000,00	-	5.000,00
Peru	5.000,00	-	5.000,00
Uruguay	5.000,00	5.000,00	-
USA	485.000,00	485.000,00	-
Venezuela	25.000,00	11.323,70	13.676,30
			-
	820.000,00	740.123,10	79.876,90

C - 1998/99			
	Expected	Paid	Outstanding
			-
Argentina	35.000,00	20.000,00	15.000,00
Brazil	70.000,00	70.000,00	-
Canada	100.000,00	97.574,22	2.425,78
Chile	5.000,00	-	5.000,00
Colombia	5.000,00	5.000,00	-
Costa Rica	5.000,00	-	5.000,00
Cuba	5.000,00	5.000,00	-
Dom. Republic	5.000,00		5.000,00
Ecuador	5.000,00		5.000,00

Guatemala	5.000,00		5.000,00
Jamaica	5.000,00	5.000,00	-
Mexico	45.000,00	13.896,08	31.103,92
Panama	5.000,00	5.000,00	-
Paraguay	5.000,00	-	5.000,00
Peru	5.000,00	3.000,00	2.000,00
Uruguay	5.000,00	-	5.000,00
USA	485.000,00	485.000,00	-
Venezuela	25.000,00	8.960,57	16.039,43
			-
	820.000,00	718.430,87	101.569,13

D - 1999/2000 (*)			
	Expected	Paid	Outstanding
			-
Argentina	35.000,00	20.000,00	15.000,00
Brazil	70.000,00	48.076,92	21.923,08
Canada	100.000,00		100.000,00
Chile	5.000,00		5.000,00
Colombia	5.000,00		5.000,00
Costa Rica	5.000,00		5.000,00
Cuba	5.000,00		5.000,00
Dom. Republic	5.000,00		5.000,00
Ecuador	5.000,00		5.000,00
Guatemala	5.000,00		5.000,00
Jamaica	5.000,00		5.000,00
Mexico	45.000,00	14.952,23	30.047,77
Panama	5.000,00	5.000,00	-
Paraguay	5.000,00		5.000,00
Peru	5.000,00		5.000,00
Uruguay	5.000,00		5.000,00
USA	485.000,00	485.000,00	-
Venezuela	25.000,00		25.000,00
			-
	820.000,00	573.029,15	246.970,85

(*) as recorded in AMRO Bank up to November 5th, 1999.

E - Accumulated			
	Expected	Paid	Outstanding
Argentina	145.000,00	100.000,00	45.000,00
Brazil	300.000,00	278.076,92	21.923,08
Canada	470.300,03	367.874,25	102.425,78
Chile	25.000,00	15.000,00	10.000,00
Colombia	15.000,00	10.000,00	5.000,00
Costa Rica	25.000,00	10.000,00	15.000,00
Cuba	25.000,00	20.000,00	5.000,00
Dom. Republic	15.000,00	-	15.000,00
Ecuador	15.000,00	-	15.000,00
Guatemala	15.000,00	-	15.000,00
Jamaica	15.000,00	10.000,00	5.000,00
Mexico	175.000,00	90.852,83	84.147,17
Panama	25.000,00	25.000,00	-
Paraguay	20.000,00	-	20.000,00
Peru	25.000,00	3.000,00	22.000,00
Uruguay	25.000,00	15.000,00	10.000,00
USA	1.840.000,00	1.840.000,00	-
Venezuela	80.000,00	25.284,27	54.715,73
			-
	3.255.300,03	2.810.088,27	445.211,76