



Science Report to the 11th meeting of the IAI CoP
Buenos Aires, Argentina, 2 July 2004

Gerhard Breulmann, IAI Scientific Officer



Update IAI programs

Three active programs:

- **1st Round of the IAI Small Grant Program (SGP I)**
- **2nd Round of the IAI Small Grant Program (SGP II)**
- **Collaborative Research Network Program (CRN)**





**First Round of the IAI Small Grant
Program (SGP I)**



Small Grant Program I (SGP I)

- Total grant US\$ 380 K
- First step in the 2nd phase of IAI programmatic development leading to CRN II (assembling of new groups, aimed at the development of larger networks in the mid-term)
- Supports 16 one-year projects (max. US\$ 30K)
- Program in its final stage (Final Report due in Jan. 05)
- 13 Final Reports received (as of 28.06.2004)



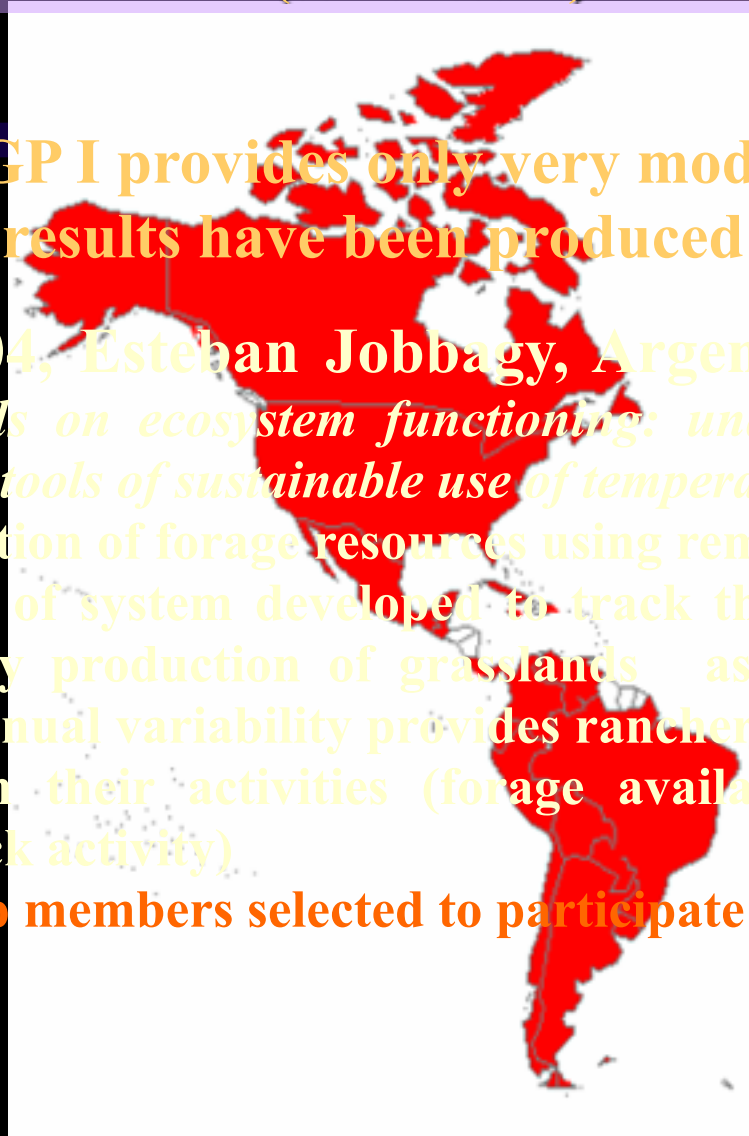


SGP I cont.

(some results)

Although SGP I provides only very modest funds, some remarkable results have been produced:

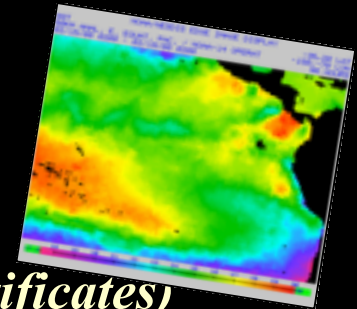
- **SGP-I-004, Esteban Jobbagy, Argentina, “Climate and land-use controls on ecosystem functioning: understanding processes and developing tools of sustainable use of temperate ecosystems”**
 - Evaluation of forage resources using remote sensing
 - Ability of system developed to track the spatial heterogeneity of primary production of grasslands as well as its seasonal and interannual variability provides ranchers with a very valuable tool to plan their activities (forage availability, risk evaluation of livestock activity)
 - **3 group members selected to participate at the YSC, Trieste**





Young Scientists Conference (START)

- 16-19 November 2003, Trieste, Italy, *co-funded by IAI*
- 1000+ applications, 640 eligible, 80 selected
- IAI region: 145 applications (81 LA, 64 NA)
- Participants from IAI region: 33 (8 LA, 25 NA)
 - Argentina 4 (*Paul Crutzen price & one recognition*)
 - Brazil 2
 - Canada 3
 - Chile 1
 - Mexico 1
 - USA 22
- 6 Prices (*Paul Crutzen Price & five recognition certificates*)





SGP I cont.

(some results)

- **SGP-I-005, Arturo Sanchez-Azofeita, Canada,**
“Connecting Satellites to the Human and Ecological dimensions:
Sustaining Tropical Forests for the Future”:
 - Developed alliance with CONAFOR (Comision Nacional Forestal, Mexico) for policy definitions on Tropical Dry Forest in Mexico.
 - MoU signed between University of Alberta – UNAM and CONAFOR to strengthen linkage
 - All data sets produced were integrated into the (new) Costa Rica National Forest Inventory (= main tool of the government to develop and monitor environmental conservation policies)





**Second Round of the IAI Small Grant
Program (SGP II)**



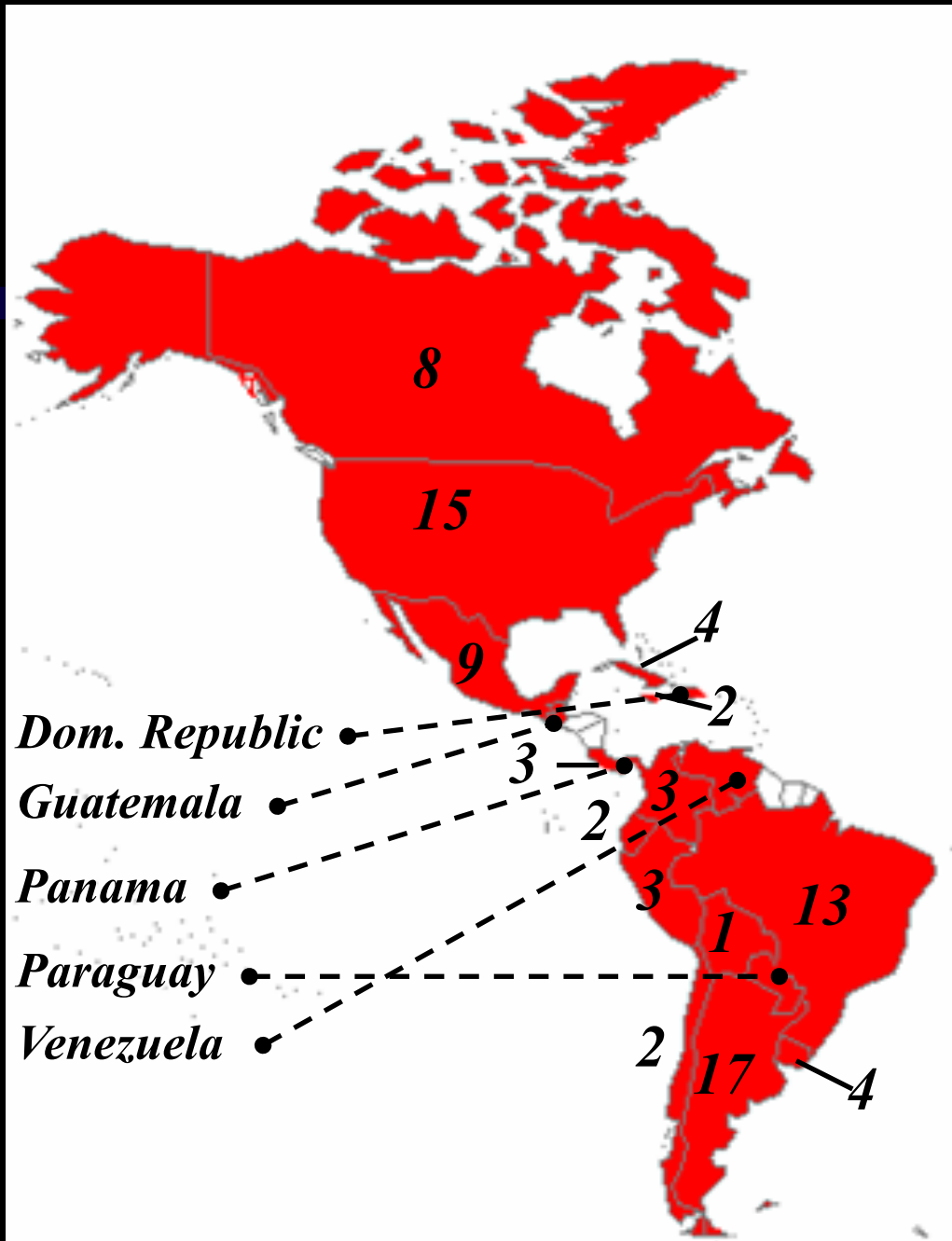
SGP II cont.

- 88 proposals received (US\$ 2,512,527)
- 48 proposals ranked as 'fundable' (US\$ 1,369,361)
- 22 proposals approved for funding (US\$ 628,000)
- **Success Rate 'Fundable' – 'Funded' = ~ 46%**





SGP II Proposal Distribution





SGP II Proposal Success Rate

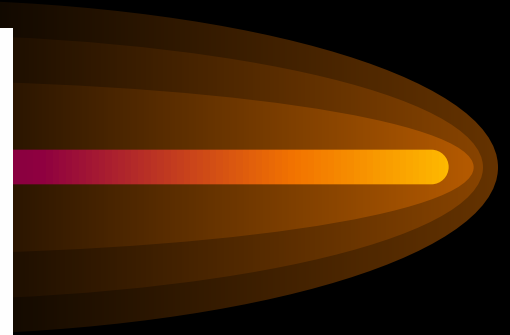
	Proposals	Fundable	Funded	Success Rate %
ARG	17	11	4	27.5
BOL	1	-	-	-
BRA	13	1	1	12.5
CAN	8	4	3	75.0
CHI	2	2	2	100
COL	3	-	-	-
GR	2	2	0	0
CU	4	-	-	-
DR	-	-	-	-
ECU	2	1	0	0
GUA	-	-	-	-
JAM	3	-	-	-
MEX	9	3	3	60.0
PAN	-	-	-	-
PAR	-	-	-	-
PER	3	1	1	33.3
URU	4	3	2	66.6



SGP II cont.

- **First time 2 joint ‘inter-regional’ projects with sister-network APN**
 - Patricia Lankao Romero, Mexico, *“Can cities reduce global warming – Urban development and the carbon cycle in Latin America”* Asian node Rodel Lasco, Philippines
 - Agustin Gimenez, Uruguay, *“Improving climatic risk management for dryland cropping in two regions of South America”* Asian node, Holger Meinke, Australia
 - APN funds for AP nodes - IAI funds for LA nodes
 - Both groups intend to prepare larger scale proposals under the APN ‘CAPABLE’ program and IAI CRN II.
- **MoU with APN in preparation**







CRN I

- Projects enter(ed) final year
- Discussion (SAC) on how to synthesize CRN I
(SAC Chair presented various options to EC)
- **Examples (Pepe Boninsegna)**





Some CRN achievements

CRN 061, Edmo Campos (BRA, ARG, URU, USA)

- Project concerned about seasonal changes in the low-salinity plume of the Rio de la Plata and the Patos/Mirim lagoons, which have a strong impact on commercial fisheries.
- In February the project conducted the 2nd cruise in collaboration with the Brazilian and Argentinean Navy (ship) and the Uruguayan Airforce (aircraft) – scientists from Argentina, Brazil, Uruguay and USA.
- Collaboration highlighted in media

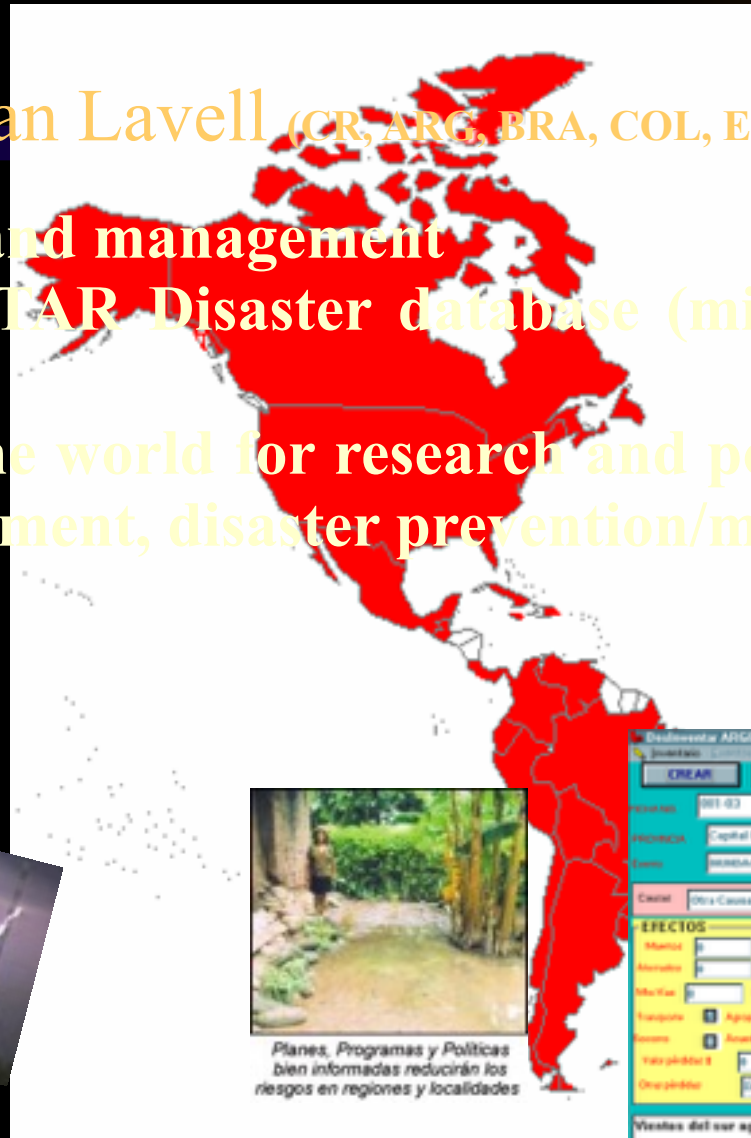




Some CRN achievements (cont)

CRN 031, Allan Lavell (CR, ARG, BRA, COL, ECU, MEX, PER, VEN, USA)

- ENSO risk and management
- DESINVENTAR Disaster database (min. 30yrs data from 8 countries)
- Unique in the world for research and policy applications (e.g. risk management, disaster prevention/management)



Planes, Programas y Políticas bien informadas reducirán los riesgos en regiones y localidades

Desinventar ARGENTINA - ficha de información de desastres

Inicio | Datos | Ingresar | Limpieza | Ayuda

CREAR ACTUALIZAR ELIMINAR BUSCAR IMPRIMIR TERMINAR

Provincia: 001-03 | Municipio: 0000 | Fecha: 15/01/2008 | Tipo: Nación

Provincia: Capital Federal | Municipio: LA BOCA-S. TELMO

Evento: INUNDACION | Tipo: Inundación

Causa: Otra Causa | Descripción: 213 mm. caídas en 10 días

EFFECTOS

Muertes	Desaparecidos	Heridos	Edificios	Carreteras
0	0	0	0	0
Monedas	No sembradas	No plantadas	Extracción	0
0	0	0	0	0
Muñecas	Herramientas	Cables	Centros de Salud	Medicinas
0	0	0	0	0
Maquinaria	Agricultura	Comunicaciones	Energía	Servicios
0	0	0	0	0
Personas	Animales	Reactivados	Industria	Salud
0	0	0	0	0
Valor pérdidas I	Valor pérdidas II	Magnitud	0	0
0	0	0	0	0

Observaciones: Inundación ocasionada por lluvias. Reorganización de 1 Asa. particular.

Fecha inicio evento: 28/1/08

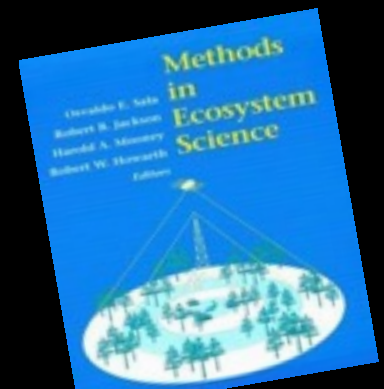
17:00:00



Some CRN achievements (cont.)

CRN 012, Osvaldo Sala (ARG, CHI, MEX, URU, USA, VEN)

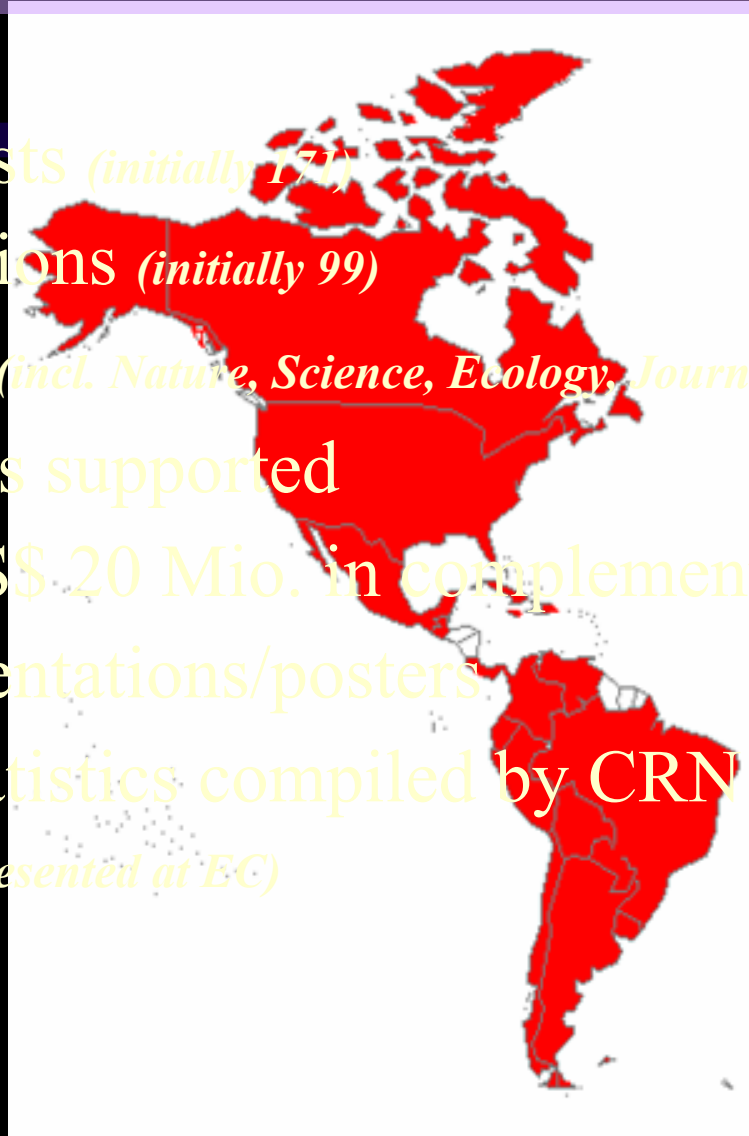
- Role of Biodiversity and climate in the functioning of ecosystems – grasslands, savannas and forests
- Results with implications for Conservation, public policy and management decisions
- Strong capacity building component (9 full-time grad. students)
- Scientific relevance of work clearly documented (2 edited books, 36 sci. articles (incl. *SCIENCE*, *NATURE*), 19 book chapters, 4 popular articles)





CRN Statistics

- 347 Scientists (*initially 171*)
- 236 Institutions (*initially 99*)
- 556 papers (*incl. Nature, Science, Ecology, Journal of Climate*)
- 263 students supported
- Approx. US\$ 20 Mio. in complementary funds
- ???(?) Presentations/posters
- Detailed statistics compiled by CRN Program Manager (*presented at EC*)





CRN II



CRN II

- **Exact Timeline to be determined** *(launch last quarter 2004?)*
- **Some specifics:**
 - **Emphasis on 'new' topics and applied science**
 - **Announcement & proposal will take into consideration the IAI member country research priorities identified in this meeting**
 - **4 or 5 year projects, max. US\$ 200K/a** (allows 10-12 projects)
 - **Minimum participation of 4 IAI member countries**
 - **Conditional Funding pending satisfactory mid-term evaluation** *(after 2 or 3 yrs).*

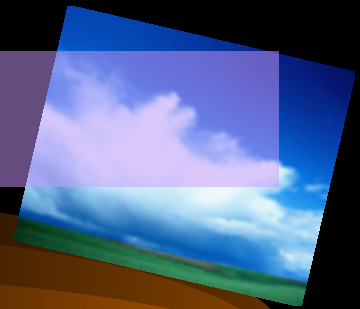




Other Activities

Millennium Ecosystem Assessment

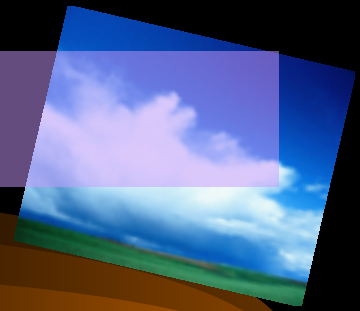
- IAI is contributing to the “Millennium Ecosystem Assessment” as official Affiliated Scientific Organization (ASO) – this means:
 - IAI Focal Point (SO)
 - Contribute to the MA review through:
 - IAI scientists review chapters
 - Reviews compiled by Focal Point and send to MA
 - IAI and individual IAI reviewers will be acknowledged in the MA volumes





Other Activities

- **UNFCCC Workshop on the preparation of national communications from Parties not included in Annex I to the Convention Manila, 26-30 April 2004**
- **Presentation on IAI by Dr. Linda Stevenson, APN Programme Manager for Scientific Affairs**





Thank you

Obrigado

Merci

Gracias

