IGCP ANNUAL REPORT 2011

IGCP ARGENTINE NATIONAL COMMITTEE

COMITÉ ARGENTINO PROGRAMA INTERNACIONAL DE CORRELACIÓN GEOLÓGICA (CAPICG)

1. NATIONAL COMMITTEE: The Argentine National Committee (CAPICG) was designed by the National Research Council (CONICET), Buenos Aires, by Resolution n.2165 from October 1998 as follows,

   Dr. Beatriz AGUIRRE-URRETA (University of Buenos Aires)
   Dr. Carlos Alberto CINGOLANI  (University of La Plata)
   Dr. Hector LEANZA (National Geological Survey)
   Dr. Ricardo MON (University of Tucumán)
   Dr. Silvio PERALTA (University of San Juan)
   Dr. Luis Antonio SPALLETTI (University of La Plata)

Institutional support: National Research Council (CONICET), National Secretary of Science and Technology (SECYT) and Permanent Representation of Argentina in UNESCO. The Argentine Geological Association, as a national representation of IUGS supports the Committee.

2. CHAIRPERSON OF THE ARGENTINE NATIONAL COMMITTEE:

   Prof. Dr. Beatriz Aguirre-Urreta
   Laboratorio de Bioestratigrafía de Alta Resolución
   Departamento de Ciencias Geológicas
   Universidad de Buenos Aires
   Ciudad Universitaria – Pabellón II
   1428 Buenos Aires
   ARGENTINA
   Telefax 0054-11-4576 3329
   aguirre@gl.fcen.uba.ar
3. IGCP PROJECTS IN WHICH ARGENTINA PARTICIPATED:

3.a. Projects with leaders or co-leaders from Argentina:

IGCP 604 project short title:  
GROUNDWATER AND WETLANDS IN IBERO-AMERICA

Period:

2011-2016

Project leader(s):

1. Name: Emilia Bocanegra (Project Leader)  
Address: Centro de Geología de Costas y del Cuaternario. Universidad Nacional de Mar del Plata. CC. 722. 7600 Mar del Plata. Argentina  
Tel.: 54 223 4754060 Fax: 54 223 4753150  
e-mail: ebocaneg@mdp.edu.ar

1. Website address(es) related to the project

http://www.mdp.edu.ar/hidrogeologia/IGCP604

2. Summary of major past achievements of the project

IGCP 604 started in 2011.

3. Achievements of the project this year only

3.1. List of countries involved in the project

Argentina, Brazil, Colombia and Spain teams are directly involved as members of the project; Costa Rica, Ecuador and Dominican Republic are associated countries to the Project. Other Latin American countries will hopefully be involved in the future.

3.2. General scientific achievements and social benefits

- A main achievement is the active cooperation of the project members by email before the Salta (Argentina) meeting, and also during the meeting, through the discussion of the methodological approaches for the elaboration of a conceptual framework on groundwater-wetland interactions. Hydrological aspects of wetlands, ecosystem services delivered by them which contribute to human well-being, drivers of change and management actions were considered.

- Preliminary design of data sheets in order to standardize basic information for a representative group of wetlands from Ibero America was prepared prior to and discussed
in Salta:

Data Sheet 1: Hydrological characterization of wetlands related to groundwater: geological environment, climate, geomorphological genesis, wetland hydrology, hydrogeology of the related aquifer, chemistry of the wetland and groundwater, wetland knowledge state and management actions.

Data Sheet 2: Wetland ecosystem services survey: provisioning, regulating and cultural services; assessment of global status and trends of these services.

Data Sheet 3: Direct drivers of change to wetland ecosystem services: Intensive exploitation, land use changes, manipulation of the hydrological cycle, contamination, climate change and global change.

- A discussion of the content, format and accessibility of an interactive website developed for the project has been done.
- A discussion of strategies to create a groundwater-related wetland network has been done.
- Dissemination of the IGCP 604 Project in the VII Argentine Hydrogeological Congress and call for the Congress participants to contribute to the project has been carried out.

3.3. List of meetings with approximate attendance and number of countries

1st Meeting of the IGCP 604

Date: October 19, 20, 2011
Venue: Salta, Argentina
The date of the Meeting was chosen in order to the attendance of the participants to the “VII Congreso Hidrogeologico Argentino”, in Salta, Argentina, October 18-21, 2011.
The Agenda of the 1st Meeting was:
• Opening session and present status of the IGCP-604
• Objectives and main topics of the Meeting
• Proposal to a New conceptual framework on groundwater-wetlands interactions (GW-WI)

1. Elaboration of Conceptual models on the GW-WI for Iberian-America (GW-WI-IA) based on basic scientific and technical information on:
   1.a. Geological and morphological settings for GW-WI-IA.
   1.b. Climatic and hydrologic settings.
   1.c. Hydrogeological and Hydrochemical settings.
   1.e. Management scenarios for GW-WI-IA.

2. Elaboration of an Inventory of services of the groundwater-related wetlands in Ibero America (GW-RW-IA), with an evaluation (if possible) of their present state.
   2.a. The conceptual framework: the Millennium Ecosystem Assessment.
   2.b. Provision, regulation and cultural services provided by GW-RW-IA.
   2.c. Current status and trends of services provided by GW-RW-IA
   2.e. GW-WI-IA and Human-well being.
   2.f. Available tools to preserve and optimize the services of GW-WI-IA: technical actions (restoration, recreation, etc), governance actions
Field trip
Date: October 21, 2011
Visit to the saline wetland “Salinas Grandes” with an extension of 225 km², 3540 masl. This is a Salta and Jujuy Provinces shared intermountain groundwater related wetland developed in an arid climate (Puna environment), where an intensive salt mining exploitation takes place.

3.4. Educational, training or capacity building activities

There are some Bachelor, M.Sc. and Ph.D. students incorporated in the Project in order to prepare their thesis on subjects related to the general topic of the Project. They are 5 from Colombia, 3 from Argentina, 1 from Brazil, 2 from Costa Rica, 2 from Ecuador and 1 from Spain.

3.5. Participation of scientists from developing countries, and in particular young and women scientists

The amount of scientists from developing countries is very high since the IGCP 604 develops in Iberian America. Latin American researchers represent the majority of participants in IGCP 604. Women scientists represent 70% of the participants.

3.6. List of most important publications (including maps)


Betancur, T, Palacio, P y Escobar, J. Tecnicas geoinformaticas en la modelación de sistemas acuíferos. En Actas del VII Congreso Argentino de Hidrogeología y V Seminario


Centro de Investigación y Proyectos Aplicados a las Ciencias de la Tierra (CIPAT), 2011. Estudio Hidrogeológico del Humedal Abras de Mantequilla. Revista Tecnológica de la ESPOL.


3.7. Activities involving other IGCP projects, UNESCO, IUGS or others

There is cooperation with the International Atomic Energy Agency (IAEA), through the involvement of some work teams to the IGCP 604:

a) CRP (Coordinated Research Project) “Isotope Techniques for Assessment of Hydrological Processes in Wetlands”. Participants countries: Argentina, Colombia and
Spain.
b) RLA 8041 “Development of tools for integrated management of coastal aquifers”.
Participant countries: Argentina, Costa Rica and Ecuador.

The overall goal is the mutual benefit of both projects through the teams’ interactions.
There is also cooperation with the Spanish Ministry for Science an Innovation founded
Project CGL2009-12910-C03 REDESAC: Aquifer’ recharge and discharge processes
through environmental tracers, which is developed, among others, by the IGCP-604 project
partners E. Custodio and M. Manzano.

4. Activities planned

4.1. General goals
The work plan 2012 includes:
• Application of the data sheets to case studies in countries involved in the Project.
• Inclusion of new Ibero American countries to the Project in order to increase the
  number of case studies.
• Establishment of a methodology both for the comparison of the case studies and the
  elaboration of a preliminary synthesis.
• Dissemination of the IGCP 604 Project in the ALHSUD Congress in Cartagena,
  Colombia, August 2012.
• Preparation of papers for international journals.

4.2. Tentative list of specific meetings and field trips (please list the participating countries)

Pre-2nd Meeting of the IGCP 604
Date: June 20-2112. Venue: Buzios, Rio de Janeiro, Brazil
The Pre-Meeting will take place during the Salt Water Intrusion Meeting SWIM, in Buzios,
Rio de Janeiro, Brazil, June 17-21, 2012. Participants members countries: Brazil (SWIM
Local organizer), Colombia (ALHSUD Congress Local organizer), Spain (Dr. Custodio,
invited professor by SWIM organizers).

2nd Meeting of the IGCP 604
Date: August 21-2112. Venue: Cartagena, Colombia
The date of the 2nd IGCP-604 Meeting was chosen in order to foster the attendance of the
project partners to the XI Congreso Latinoamericano de Hidrogeología ALHSUD, to be
held in Cartagena, Colombia, on August 20-24, 2012. Forecasted participant countries:
Argentina, Brazil, Colombia, Costa Rica, Dominican Republic, Ecuador, Spain.

5. Project funding requested

Delegates from two countries, Costa Rica and Ecuador, were invited this year for the
project leaders to attend the 1st Meeting of the IGCP 604.
Full funds (USD 10000) are requested to promote the attendance of more Latin American participants and keep up a good performance of the Project.

6. Request for extension, on-extended-term-status, or intention to propose successor project

N/A

7. Financial statement ($ USD only)

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Subtotal 3913

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Subtotal 2800

Organizing of Meeting, webpage design cost and bank fees

Subtotal 787

TOTAL 7500

Federal University of Rio de Janeiro, Brazil, National University of Mar del Plata, Argentina, University of Antioquia, Colombia and SENARA, Costa Rica partially supported the attendance of members to the meeting. Dr. Emilio Custodio was supported by the VII Congreso Hidrogeologico Argentino Organizing Committee.
IGCP 586 Y project short title:

GEODYNAMIC PROCESSES IN THE ANDES 32°-34°S

Duration: 2010-2012

Project leader(s):

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1. Website address(es) related to the project

The IGCP 586Y website http://igcp586y.syr.edu/IGCP_586Y is hosted through the College of Arts and Sciences at Syracuse University. Hoke maintains the website, as specially requested the domain name igcp586y.syr.edu for the site. Maisa Tunik is in charge of the maintenance of the web page www.geologica.org.ar of the Asociación Geológica Argentina, where all the data from the IGCP project is published.

2. Summary of major past achievements of the project

During 2010, the first year of the project, the IGCP 586-Y group has successfully integrated published and unpublished geological and geophysical data from the 32°50′ and 33°50′S transects. The project has now a dynamic email group for discussion and information distribution with firm commitments towards achieving its goals (http://ar.groups.yahoo.com/group/igcp586/). IGCP 586-Y has attracted considerable interest and support from the geological community and team members have an active participation in divulgation activities at local schools, public radios, TV programmes and newspaper articles.

3. Achievements of the project this year only

3.1. List of countries involved in the project:

Chile, Argentina, USA and France.

3.2. General scientific achievements and social benefits

The IGCP 586-Y group currently consists of 14 members from 4 countries. One important social aspect of IGCP 586-Y has been the incorporation of several doctoral and post-doctoral students into the group. In 2011 IGCP 586-Y reached the number of 13 postgraduate students involved in the project, based at 6 universities in four countries: José Mescua (Argentina), Pamela Jara (Chile), Sergio Calderón (Chile), María Pía Rodriguez (Chile), Alina Walcek (USA), Lucía Sagripanti (Argentina), Silvana Spagnotto (Argentina), Jessica Paz Fuentes (Chile), Pablo Alarcón (Chile), Pablo Escares (Chile), Monserrat Cascante (Costa Rica), Hernán Porras (Costa Rica) and Felipe Tapia (Chile). All except one of these students come from developing countries.

In addition to technical sessions, we have an active participation in free public lectures open to the communities to advise society about potential geohazards in the region, especially after the Maule earthquake of 2010, and in activities at primary and secondary schools.

Santiago and Valparaiso cities (Chile)

Sergio Sepúlveda gave a conference titled “landslides” in the XV Jornadas Comite Nacional para el Programa Hidrológico Internacional (CONAPHI) of UNESCO "Water and Natural hazards: Impact over extreme events in Chile".
Sergio Sepúlveda presented the talk: “Preliminary seismic microzonation of Santiago basin”. Seminario Ordenamiento Territorial y Riesgo Sísmico. Universidad Diego Portales, Facultad de Ingeniería.

Luisa Pinto with undergraduate students from the Universidad de Chile gave talks about rocks, volcanoes, earthquakes, landslides and plate tectonics to secondary schools in the Metropolitan and Valparaiso regions, Chile.

Neuquén city (Argentina)

Sergio Sepúlveda gave the invited conference “Earthquake-induced landslides and their relationship with seismogenic sources: observation from recent events in Chile” in the Simposium on mass movements, during the XVII Congreso Geológico Argentino.

Maisa Tunik spoke about “Volcanoes: how do they grow?” and “Rocks in his head” to primary school children. She also give a note to La Nación journal http://www.lanacion.com.ar/1333072-hallan-bacterias-de-65-millones-de-anos
Roca city (Argentina)

Víctor García and Florencia Bechis presented an open talk “All that you ever want to know about volcanoes and you did not be encourage to ask” free and open to general public at the Patagonic Natural Sciences Museum.

Víctor García gave a talk on Volcanoes oriented to 10 to 11-year-old children. Together with Maisa Tunik, he gave a radio interview on Volcanoes. (https://www.facebook.com/media/set/?set=a.156785521060513.40532.100001871984928 &type=3

Mendoza city (Argentina)

Stella Moreiras gave an open talk “Rock avalanches and geomorphological evolution of the Mendoza river valley” in the CCT Institute (Mendoza).

Stella Moreiras and Laura Giambiagi participated in the Science Week for primary and secondary schools of Mendoza with the “Earthquake project”.

Laura Giambiagi and José Mescua worked with school teachers and students with earthquake and volcanoes experiments in Mendoza city.

3.3. List of meetings with approximate attendance and number of countries

In 2011, two meetings with one field workshop were developed within the activities of IGCP 586Y.

Thirst IGCP 568-Y Meeting: Neuquén, Argentina.
The thirst IGCP 586-Y meeting was held in May in Neuquén, Argentina, during the 18th Argentine Geological Congress. It was convened by Maisa Tunik and Laura Giambiagi.
The meeting gathered 34 researchers from 4 countries (Argentina, Chile, France and USA) and doctoral and post-doctoral students from Argentina and Chile. 21 oral presentations were given:


Albert, F., Tassara, A. y Kukowski, N. Efecto de la geometría y fricción interna del antearco en el proceso de erosión por subducción: Resultados preliminares de modelos análogos.


Farias, M., Charrier, R., Comte, D., Tapia, F., Puratic, J., Astaburuaga, D., Carretier, S. y Martinod, J. Tectónica y erosión en la construcción de los Andes de Chile Central.

Farias, M., Comte, D., Carrizo, D. y Contreras, E., Cambio de elevación costeros producidos por el terremoto Mw 8.8 de Chile Central del 2010 y particularidades en el segmento norte de la ruptura.

Giambiagi, L., Mescua, J. y Bechis, F. El frente orogénico del sector sur de los Andes Centrales: variaciones latitudinales en acortamiento, topografía, levantamiento estructural y denudación.


Sepúlveda, S.A., 2011. Remociones en masa generadas por terremotos y su relación con las fuentes sismogénicas: observaciones de casos recientes en Chile.


Pons, M.J., Giusiano, A., y Tunik, M. 2011. Caracterización de la Formación Huincul (Grupo Neuquén) en el área del prospecto de cobre Tordillos, Neuquén, Argentina.

Reyna, G., Dávia, F. and Hoke, G., El relleno distal de la Cuenca de Manantiales en la Precordillera normendocina y su implicancia en la evolución del antepaís andino temprano.

Tapia, F. y Farías, M. Análisis estructural del sector occidental de la faja plegada y corriente de Malargüe en el área de Valle Grande, región del Maule, Chile (35°23´S).


Tassara, A., Echaurren, A., Hackney, R. y Legrand, D. Influencia de la anatomía geológica del antearco sobre la estructura del contacto sismogénico interplacas: Análisis para el margen andino y el caso del terremoto del Maule 2010.


4 posters were exposed:


Bechis, F., Barredo, S., Tunik, M., Mescua, J., Martínez, A., Caracterización cinemática de la extensión pérmica tardía a jurásica temprana en el sector sur de los Andes Centrales: implicancias geodinámicas.

Heredia, N., Farías, P., García Sansegundo, J. y Giambiagi, L., Evolución geodinámica de la Cordillera Frontal de los Andes (30º-33ºS) y su entorno durante el Paleozoico Superior.

Reyna, G., Hoke, G., Davila, F. and Sudo, M. Edades Ar-Ar y correlación de las sucesiones volcanícolásticas expuestas en la precordillera surmendocina.

Forth IGCP 568-Y Meeting: Santiago, Chile

The forth IGCP 586-Y meeting was held in November in Santiago, Chile. It was convened by Luisa Pinto, Sergio Sepúlveda and Andrés Tassara. The meeting gathered 23 researchers
from 3 countries (Argentina, Chile and Costa Rica) and doctoral and post-doctoral students from both countries. 12 oral presentations were given.

The aim of the meeting was to establish an integration of all the geophysical (potential methods, seismology, reflection seismic data, magnetotelluric) and geodesic data along the Southern Central Andes, between 32°-34°S, as well as geological and superficial studies.

3.4. Educational, training or capacity building activities

3.4.1 Field workshops

Thirst IGCP 586-Y field workshop: Cajón del Maipo: 33°40´S transect

The thirst field workshop took place in Chile between 14th and 18th November 2011, departing and ending at Santiago of Chile. Field trip leaders were Sergio Sepúlveda and Luisa Pinto. The field trip aimed to discuss the structure and surface deposits along the 33°40´S transect. Seventeen researchers and students from three countries (Chile, Argentina and Costa Rica) attended the field workshop. Outcrops visited were in the vicinity of the international route between Argentina and Chile along the Maipo transect: San Gabriel-El Yeso-Lo Valdés, Cajón del Maipo.

3.4.2 Post-graduate students

The project supports the students in different ways, including financial assistance to participate in meetings and fieldworks, and availability of data gathered by IGCP 586Y. Doctoral and post-doctoral students from Argentina, Chile and Costa Rica have been actively involved in both meetings and field workshop. 7 PhD and MSc students have been sponsored by IGCP 586Y activities during 2011.

3.5. Participation of scientists from developing countries, and in particular young and women scientists

86% of leader scientists involved in IGCP 586Y are based in developing countries in South America and 57% of them are women.

3.6. List of most important publications (including maps)

Peer review publications


4. Activities planned

4.1. General goals

The general goal of IGCP 586Y is to make a major step forward in the integration of geological and geophysical data along five transects crossing the Andes of Argentina and Chile. In 2011 the project will target on the three transects: 32°, 32°50’, and 35°S.

4.2. Tentative list of specific meetings and field trips (please list the participating countries)

The following meeting is planned and the agenda will be kept open for further timely meetings that might be proposed during 2012. The Fifth Meeting will be arranged in conjunction with the 13th Chilean Geological Congress that will be held in Antofagasta, Chile. A special session on Andean Geodynamics has been proposed by Sergio Sepúlveda and Luisa Pinto. The number of expected participants is on the order of 80. The forth Field Workshop will be held along the 32°S transect.

5. Project funding requested

In order to support the maximum number of delegates in the 2012 meeting, we request for maximum possible project funding for 2012.

6. Request for extension, on-extended-term-status, or intention to propose successor project

N/A

7. Financial statement ($ USD only)

Funds were used according to the plan submitted early in 2011. 11 scientists and students received partial funding from IGCP 586Y to attend the Neuquén and Santiago meetings and field trip.

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Julieta Suriano  Argentina  916  
Monserrat Cascante  Costa Rica  595  
Hernán Porras Espinoza  Costa Rica  595  

Total expenses USD 7558

Organizing expenses  Allocation (in USD)  
Fundación Cricyt 5%  375

Estimated total expenses from all sources, including IGCP-funds: USD 18,000. Significant amounts of funding were provided by the participants, which financed their expenses through research projects in their home countries.

3.b. Projects with active working groups in Argentina:

3.c. Other IGCP Projects in which scientists from Argentina participated during the year:

3.d. IGCP Project submitted during 2010 with Argentine leaders/co-leaders:

4. IGCP MEETINGS HELD DURING THE YEAR:

5. CONCRETE EXAMPLES OF CO-OPERATION AT THE NATIONAL LEVEL BETWEEN IGCP AND SOME OF THE OTHER SCIENTIFIC PROGRAMMES OF UNESCO.

6. NATIONAL COMMITTEE ACTIVITIES

The National Committee considered the Annual Report, to be send at the IGCP Board, Paris, France.

Buenos Aires, 11th January 2012.

Dr. María Beatriz Aguirre-Urreta