REPORT

FOR 2012

— THE BRAZILIAN NATIONAL COMMITTEE —

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PROJECTS WITH BRAZILIAN LEADERSHIP OR PARTICIPATION

Brazil participates on 06 IGCP Projects with Brazilian co-leadership (510 [OET], 582, 598, 599, 604, and 619).

Brazil seems to be involved with Projects 540, 580, 585, 587, 597, 616, and 618, but effective Brazilian participation could not be confirmed.
Projects with Brazilian Co-Leadership


Project co-leader: Roberto Dall’Agnol - Inst. de Geociências, Federal University of Pará - UFPa, Brazil (robdal@ufpa.br; Tel. (55 91) 3201-7477)

Project's Web Site: http://www.igcp-510.org

Summary of Activities: As mentioned in our report of 2011, the IGCP project 510 was concluded during 2010 and the only activity planned for 2012 was the final editing and publication of a special issue at LITHOS, assembling papers presented during the last meeting of the project, at Helsinki, on August, 2010. That special issue was published and it assembled nine papers (see details below). The managing guest editors were Roberto Dall’Agnol, Carol D. Frost, and O. Tapani Rämö.


No. 582 – TROPICAL RIVERS: HYDRO-PHYSICAL PROCESSES, IMPACTS, HAZARDS AND MANAGEMENT (2013)

Project co-leader: José C. Stevaux - University of Guarulhos - UNG - Brazil (jcsstevaux@uem.br; jstevaux@prof.ung.br; Tel. 55 11 2464 1664, 55 44 3261 4327)

Project's Web Site: The Project's web site, http://www.igcp582.uem.br/, is linked to the State University of Maringa (UEM).

Summary of Activities: Brazilian Project participants joined the Project's meeting held at Iquitos, Peru. Dr. Stevaux (Universidade Estadual de Maringa-UNESP, Brazil) presented one of the keynotes, and Dr. Filizola (Universidade Federal do Amazonas, Brazil) presented lectures on the hydro-geomorphology of the Amazon basin during a one-day training course.

Publications: During this year a new special issue, entitled "The Quaternary of tropical and subtropical rivers" and edited by SINHA, R., LATRUBESSE, E. and NANSON, G. (Guest Editors), has been published in Palaeogeography, Palaeoclimatology Palaeoecology.

No. 598 – ENVIRONMENTAL CHANGE AND SUSTAINABILITY IN KARST SYSTEMS (2011-2014)

Project co-leader: Augusto Auler - CARSTE Consultores Associados - R. Brasópolis 139, Belo Horizonte, MG, 30150-170 - Brazil (aauler@gmail.com; Tel. 55 31 2552-9976, 55 31 2552-9974)

Meetings: Workshop Speleometrics Methods, Definitions and Limits. May 23-24, 2012 - Workshop for about 80 participants, including members of academia, consultants, public and private sectors. The workshop dealt with practical dimensional aspects in karst areas.

International Course Introduction to Cave Biology. November 7-9, 2012 - Organized by Dra. Ana Sofia Reboleira, from the University of Aveiro, Portugal. The course dealt with the basic aspects of biospeleology and included a field trip. There were about 50 attendants, mostly academics, students and consultants.

Papers Published: Brazilian project participants took part on three papers related to the project:


Project continental leader for South America: Roberto Dall'Agnol - Inst. de Geociências, Federal University of Pará - UFPa, Brazil (robdal@ufpa.br; Tel. (55 91) 3201-7477)

Project's Web Site: https://sites.google.com/a/helsinki.fi/early-earth-tectonics/

Summary of Activities: The Brazilian WG attended 1 Project related meetings, and published a number of papers.

The edition of the special issue on Precambrian Research that assembled some of the papers presented during the Pre-project IGCP meeting held in India last year, on February 2-11, 2011 has been concluded and is now in press. The managing guest editors are Prof. Mudlapa Jayananda, Bor-ming Jahn and associates. The Brazilian WG contributed with 1 paper (see below).

Meetings Attended: The IGCP-SIDA 599 project had an active participation in the 34th INTERNATIONAL GEOLOGICAL CONGRESS, held in Brisbane, Australia, August 5-10, 2012. The paper of Feio et al., accepted for publication in Precambrian Research, was presented during the event by the first author.

Dr. Feio, working at present at the Faculty of Geology of the Marabá campus of the Federal University of Pará, Brazil, participated also in the official meeting of the IGCP-SIDA-599 project held during the event and in several informal meetings of the scientist involved in the project.

Papers Published:


Papers accepted for publication:


Project co-leader: Gerson Cardoso - Federal University of Rio de Janeiro - UFRJ - Brazil (gerson@acd.ufrj.br; Tel. (55 21) 2598-9464, (55 21) 2590-8091)

Summary of Activities: See below.

Brazilian WG: The following Brazilian scientists are committed to the project: Gerson Cardoso da Silva Junior, D.Sc. (UFRJ) (national leader), Aderson Marques, M.Sc. (DRM-RJ), Kátia Leite
Mansur D.Sc. (UFRJ), Claudio Limeira Mello, Ph.D. (IGEO/UFRJ), and Maria da Gloria Alves D.Sc. (UENF)

Meetings attended: Two meetings have been attended.
• A Project meeting held on June 20, 2012, during the “22nd Salt Water Intrusion Meeting” at Búzios, Brazil, from June 17 to 22, 2012, and organized by G. Cardoso. The objective of the meeting was to prepare the 2nd Project Meeting.
• 2nd Project 604 Meeting, held on August 21, 2012, at Cartagena, Colômbia, during the “XI Congreso Latinoamericano de Hidrogeología (ALH SUD)”. Dr. Emilia Bocanegra (Argentina), Dr. Gerson Cardoso da Silva (Brazil), Dr. Teresita Betancur (Colômbia), and Dr. Marisol Manzano (Spain) attended the meeting, as well as 7 invited project participants from Argentina, Chile, Dominican Republic and Ecuador.

The objectives of the two meetings was to encourage the Project participants to discuss the progress and future development of the Project. The outline of the meetings may be summarized as follows:
• evaluation of the case studies carried out during the first year of the Project;
• diffusion of information among academic and professional fields in ibero-america;
• methodological discussion about synthesis and generalization of the inventoried case studies;
• discussing the Project's website http://www.mdp.edu.ar/hidrogeologia/IGCP604.

Papers Published: Below are listed the most important project related papers published

Educational, training or capacity building activities: There are 1 MSc and 3 undergraduate students engaged in the Project, respectively helping in the formulation of conceptual models of the interaction of lacustrine and coastal aquifers in the Maricá - RJ region, as well as researching for bibliographic data of humid Brazilian areas, particularly in the Rio de Janeiro state.

No. 619 – CONTOURITES: PROCESSES & PRODUCTS (2012-2016)
Project co-leader: Adriano Viana - Centro de Pesquisas da Petrobras, CENPES - Rio de Janeiro RJ - Brazil ((aviana@petrobras.com.br, (55 21) 2162-6464)

Summary of Activities: The following activities have been developed by the Brazilian WG during the year:
1. Start of numerical modeling of contour currents structure modification responding to different sea floor physiography changes, collaboration project between Petrobras, UFRJ – Universidade Federal do Rio de Janeiro, and PUC-RO – Pontifical Catholic University of Rio Grande do Sul.
2. Review of a couple of cores from industrial boreholes of South-Eastern Brazilian margin aiming to identify sedimentary structures typical of bottom currents action

Meetings attended: A Brazilian delegation of three researchers participated on the Symposium “CONTOURITE DEPOSITIONAL SYSTEMS: THEIR OCEANOGRAPHIC, PALEO-OCEANOGRAPHIC AND SEDIMENTARY IMPLICATIONS AND INFLUENCE OVER SLOPE STABILITY AND RESOURCE EXPLOITATION” hold at the VIII Spanish Geological Congress with the presentation of two oral communications

ACTIVITIES OF THE NATIONAL COMMITTEE

Among other administratives activities, the Brazilian National Committee endorsed the Project Proposal "CONTOURITES: GEOLOGICAL RECORD OF OCEAN-DRIVEN PALEOClimate, ACCOMPlice OF Submarine
LANDSLIDES AND RESERVOIR OF MARINE GEO-RESOURCES*, to be submitted for approval at the next meeting of the IGCP Scientific Board. The proposal has been signed by Prof. Dr. DORRIK A. V. STOW [Project Leader, Scotland], Prof. Dr. DAVID VAN ROOIJ [Project Secretary, Belgium], as well as by Prof. Dr. FANCISCO-JAVIER HERNÁNDEZ-MOLINA [Co-proponent, Spain], Dr. MICHELE REBESCO [Co-proponent, Italy], Dr. PERE PUIG [Co-proponent, Spain], Dr. ANTJE VOELKER [Co-proponent, Portugal], and Dr. ADRIANO VIANA [Co-proponent, Brazil].