Annual Report* of IGCP-SIDA Project No. 599

The scientific information in this report will further be used for publication on the IGCP website under the new electronic version of 'Geological Correlation' (please feel free to attach any additional information you may consider relevant to the assessment of your project).

IGCP project short title: The Changing Early Earth


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Date of submission of report: 14.12.2011

Signature of project leader(s):

Helsinki 14.12.2011

Jaana Halla
IGCP-SIDA Project 599 “The Changing Early Earth”

ANNUAL REPORT 2011

1. Website address related to the project

http://sites.google.com/a/helsinki.fi/early-earth-tectonics/home

2. Summary of major past achievements of the project N/A (first year)

3. Achievements of the project this year only

3.1. List of countries involved in the (*active this year)

The project has participants from all continents, from 16 industrialized countries, two newly industrialized countries (China and Brazil) and from six developing countries.


The total number of registered participants is 145. Approx. 50% of participants come from developing countries.

3.2. General scientific achievements and social benefits

After the arrival of the UNESCO/IGCP funding letter in May, the project has been running only for six full months. It would be too early to evaluate and sum-up the results; therefore we give here just a short overview of the current state of the project.

1. According to the recommendations of the IGCP Scientific Board, we have invited Professor Abulkarim Mruma from Tanzania to be one of the leaders. We are also looking for more leader candidates from Africa.

2. It is notable that at this early stage, already half of the project participants come from developing countries.

3. Actions have been made to help scientists from developing countries to get access to high-quality laboratories in industrialized countries. For example, a joint Nordic-Indian proposal (“SIMS U–Pb zircon geochronology of Archean granitoids from the Bundelkhand and Dharwar cratons of the Indian Shield”) to perform high precision U-Pb zircon analyzes at the NordSIM laboratory in Stockholm (Sweden) in 2012 has been accepted.

4. Preparations of the EU FP7 Marie Curie Initial Training Network proposal have been started by the University of Portsmouth. Several applications to different national funders have been submitted by the project participants.

5. Two special issues coordinating scientific achievements of the project are in progress: I Precambrian accretionary orogens and continental growth (manuscript submission closed), Precambrian research, guest editor M. Jayananda. II Ore Deposits and the Role of the Lithospheric Mantle, guest editors S. Mondal et al.
3.3. List of meetings with approximate attendance and number of countries

Meetings related to the IGCP-SIDA 599 project (directly* and indirectly)

1. International Symposium on Precambrian Accretionary Orogens and Field Workshop in the Dharwar Craton, Southern India, 2–11 February 2011. Convener M. Jayananda, University of Delhi. Approx. 100 participants from 10 countries. Conference Report in Episodes Vol. 34 No.1 March 2011, pages 61–65 (J-F Moyen). A pre-project IGCP meeting was held in the connection of the conference*.

2. EGU 2011 Austria, Vienna 3–8 April. Session Early Earth: from deep dynamics to surface life (convener J. van Hunen); IGCP-SIDA 599 Splinter Meeting on Thu 07 April 08:30-10:00 (convener J. Halla)* (Finland, Belgium, Australia, UK, and Russia; 10 participants).

3. Conference “Granulite and eclogite complexes in the Earth's history” (GEC-2011), Petrozavodsk, Russia. 16–18 June, 2011. 80 participants, from 6 countries (China, Finland, Japan, Lithuania, Russia, Sweden).

4. Goldschmidt 2011 in Prague, Czech Republic 14–19 August. Theme Earth’s resources: ores, Session Ore deposits and Role of the Lithospheric Mantle (Convenors: Wolfgang Dereck Maier, Sisir Mondal, Thomas Oberthür, Marco Fiorentini) and other Early Earth related sessions.

5. IGCP-SIDA 599 Launching Meeting and Field Workshop in Mekrijärvi, eastern Finland 26–30 September 2011. 24 participants from 11 countries (Australia, Brazil, Finland, France, Germany, India, Russia, Spain, Sweden, Tanzania, UK).*

6. IGCP-SIDA 599 UK branch meeting at the Geological Society of London. Participants: Hugh Rollinson, Mike Fowler, Craig Storey and Jaana Halla. Planning the EU FP7 Marie Curie Initial Training Network proposal.*

3.4. Educational, training or capacity building activities

The IGCP-SIDA 599 group is planning a systematic educational, training, and capacity building network. Several individual research training courses have been held in different countries.

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

The project has 75 members from developing countries (Brazil, Cameroon, India, Russia, South Africa, Tanzania, and Ukraine), which means that 50 % of the members of come from developing countries (China is not included in developing countries). The percentage of young and women scientist is around 10%.

3.6. List of most important publications (* with IGCP acknowledgements)

In the first year (2011), the participants of the IGCP-SIDA Project 599 have published 22 peer-reviewed papers in several journals. Part of the papers was already accepted before the arrival of the funding letter.


19. **Szilas, K.**, Van Hinsberg, V. J., Kisters, A.F.M., Hoffmann, J.E., Windley, B.F.,


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

4. Activities planned

4.1. General goals

1. To increase a) the number of participants from African and other developing countries and b) the proportion of young and women scientists.
2. To give research training for young scientists, especially from developing countries, in the connection of the IGCP activities.
3. To strengthen the cooperation between countries and disciplines.
4. To increase the number of joint proposals and activities cutting across different Early Earth themes.
5. To increase understanding of the cause-and-effect relationships of changes in the early Earth mantle conditions, crust-forming processes, atmosphere and hydrosphere compositions, and in the biosphere; and to better understand the early evolution of life and its environment.

4.2. Tentative list of specific meetings and field trips


3. 2012 July. IGCP-SIDA 599 Meeting and field workshop in South Africa (connected with the previous).

4. 2012 August 5–10. 34th IGC in Brisbane Australia. IGCP-SIDA 599 Project Meeting in the connection of the IGC*.

5. 2012 December 1–8. International Workshop on Magmatic Ore Deposits (chromite, Ni-sulfides and PGE) in 2012 in India at Kuvempu University, Shimoga, Karnataka (Sisir Mondal). Short courses for young scientists.
6. 2012 September. IGCP-SIDA 599 Meeting and Field Workshop in Ukraine. 3.75-2.8 Ga granulite complex in Central Europe (Leonid Shumlyanskyy).

7. 2013 February. Workshop in Delhi and field trip in Central India especially targeted for young scientists from developing countries. A related special issue on research in progress to facilitate the publication of the work of young researchers from developing countries.


9. 2013 September. Workshop in Portsmouth, UK, with field trip to the Lewisian Complex (Craig Storey).

10. 2014. IGCP-599 Meeting and Workshop in Brazil (Roberto Dall’Agno).

5. Project funding requested

We request maximum project funding for 2012 to ensure participation from Africa and other developing countries in the meetings planned for the next year.

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

7. Financial statement ($ USD only)

The IUGS/UNESCO/SIDA funds allocated to IGCP-SIDA 599 (12,000 USD) were used to cover the costs of six invited participants of the IGCP-SIDA 599 Launching Meeting and Field Workshop in Finland and for minor administrative expenses according to the financial statement (submitted separately). The total cost was 10,690.80 USD. The unused portion of the funding (1,309.20 USD) was originally allocated to an African participant who was not eventually able to arrive because of visa problems.

Most of the meeting costs were covered by registration fees and the rest by sponsors such as the Finnish Museum of Natural History, University of Helsinki, Geological Survey of Finland, and the Finnish IUGS/IGCP National Committee.

8. Attach any information you may consider relevant

The IGCP-SIDA 599 Launching Meeting and Field Workshop Report Volume will be submitted by 15th January as additional material.