EUROPEAN CENTER FOR GEODYNAMICS AND SEISMOLOGY

26th ECGS Workshop

Co-organized with the National Museum of Natural History of Luxembourg and The Royal Museum for Central Africa, Belgium

Active Volcanism & Continental Rifting with special focus on the Virunga (North Kivu, DRC)

---- November 19-21, 2007 ----

- PROGRAM -

Monday November 19th 13:30 - 13:40 Opening session 13:40 - 14:20 Ebinger C. et al. Time and Length Scales of Extension and Magmatism in the East African Rift System 14:20 - 14:40 Bryan S. and Ernst R. Revised Definition of Large Igneous Provinces (LIPs) 14:40 - 15:00 Meyer R. et al. Crustal-mantle interaction during a continental rift phase and its rift to drift evolution 15:00 - 15:20 Tentler T. Dynamics of magma emplacement in controls of rift segmentation and propagation 15:20 -15:40 Siamundsson F. Multi-mode magma storage in volcano roots: Physical aspects and examples from Iceland 15:40 - 16:10. Coffee break and Posters session 16:10 - 16:50 Stamps S. et al. (speaker : Calais E.) Present-day kinematics of the East African Rift 16:50 - 17:10 Delvaux D. et al. Fault control of the Ngozi-Songwe geothermal system in the Rungwe Volcanic Province (East African rift, SW Tanzania) 17:10 - 18:30 Poster presentation session (2 min. oral presentation per poster)

18:30 - 19:30 Posters session

Tuesday November 20	Tuesday	/ Noven	nber 20
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08:00 - 08:30	Welcome
08:30 - 08:50	Sebagenzi S. The NE-SW nascent branch of the East African Rift system in the southeastern DR Congo and Zambia: geophysical evidences
08:50 - 09:10	Bauer F. et al. Denudation history of the Rwenzori Mountains, Albertine Rift, Uganda
09:10 - 09:30	Ernst G. et al. Research and Monitoring at Oldoynio Lengai Volcano, N. Tanzania: Review of recent advances
09:30 - 09:50	Basu A. et al. Petrochemical Geodynamics of Nyiragongo and Nyamuragira Volcanoes in the Western Rift of the East African Rift System (EARS).
09:50 - 10:20	Coffee break and Posters session
10:20 - 11:00	Yirgu G. et al. The Da'Ure volcanic eruption during the September 2005 Dabbahu rifting episode, Afar, Ethiopia
11:00 - 11:20	Gonzales P. et al. Three dimensional volcanic deformation fields at Tenerife Island: integration of GPS and Time Series of InSAR (SBAS)
11:20 - 11:40	Van Cranenbroeck J. Single to multi frequency GNSS signal processing solutions for active volcanism and continental rifting monitoring applications.
11:40 - 12:00	d'Oreye N. et al. The November 2006 Nyamulagira eruption revealed by InSAR
12:00 - 13:30	Lunch
13:30 – 14:10	Tedesco D. et al. The January 2002 Volcano-Tectonic Eruption of Nyiragongo volcano, Democratic Republic of Congo
14:10 - 14:30	Durieux J. Title to be communicated. Topic: Risk mapping
14:30 - 14:50	Papale P. et al. Hazard by lava flows at Nyiragongo volcano, West Virunga, from numerical simulations of lava flow paths.

14:50 - 15:10	Wadge G. Temporal and spatial analysis of the eruptions of Nyamuragira
15:10 - 15:30	Vaselli O. et al. Environmental impact of the Nyiragongo volcanic plume after the 2002 eruption
15:30 - 16:00	Coffee break and Posters session
16:00 - 16:20	Husson P. Operation of the VAAC Toulouse related to African Volcanoes
16:20 - 16:40	Kervyn F. et al. Towards the progressive setup of a GIS platform integrating major monitored volcanic parameters of the GORISK project, Nyiragongo (DR Congo).
16:40 - 17:00	Reiter E. Use of GIS and XML for geochemical data survey : information for public health issue, transfer to research
17:00 - 17:20	De Bernardinis B. et al. (speaker: V. Bosi) Civil protection organization in volcanic emergency
17:20 - 18:20	Posters session
19:00 - 20:00	City Tour (included in the transportation to the official dinner)
20:30 - 00:30	Official dinner in the Medieval Castle of Bourglinster

Wednesday November 21

08:00 - 08:30	Welcome
08:30 - 09:10	Wright T. et al. Pre- co- and post-dyking deformation in the Dabbahu rift segment (Afar, Ethiopia) observed with satellite geodesy
09:10 - 09:30	Wauthier C. et al. Modeling of InSAR displacements related with the January 2002 eruption of Nyiragongo volcano (DRC)
09:30 - 09:50	Heleno S. et al. Discrimination between tropospheric effects and crustal deformation in SAR interferograms of Fogo volcano, Cape Verde Islands (1993 - 2006)
09:50 - 10:10	Yirgu G. The August 2007 fissure eruption on the Dabbahu magmatic segment
10:10 - 10:30	Oyen A. et al. InSAR monitoring of OI Doinyo Lengai (Tanzania) : the March 2006 and July 2007 events

10:30 - 11:00	Coffee break and Posters session
11:00 -11:40	Pagliuca N. et al. The monitoring of seismic activity at Nyiragongo volcano through telemetered seismic network, Goma Volcano Observatory (Democratic Republic of the Congo)
11:40 - 12:00	Mavonga T. et al. Seismic Activity prior to the recent eruptions of volcano Nyamuragira, Western Rift Valley of Africa
12:00 - 12:20	Shuler S. and Ekström G. Anomalous Earthquakes in the Virunga
12:20 - 12:40	Kavotha et al. Recent major magmatic processes at volcano Nyiragongo inferred from long-period earthquakes
12:40 - 14:00	Lunch
14:00 - 14:20	Lukaya F. et al. Recent seismic activity at volcano Nyamulagira, Western Rift Valley of Africa
14:20 - 14:40	Ferdinand R. Lake Natron (Tanzania) earthquake of 17 th July 2007: First Report
14:40 - 15:00	Tedesco D. et al. Active and passive margins of the Western African Rift: Helium and Carbon Isotopic Signatures in the Lake Kivu Region (D.R.C)
15:00 - 15:20	Bobrowski N. et al. Niyragongo - A huge global bromine and sulphur emission into the free troposhere
15:20 - 15:50	Coffee break and Posters session
15:50 - 16:10	Rouwet D. and Kusakabe M. He-C-N isotope systematics of dissolved gases in Lake Nyos and Monoun (Cameroun, Western Africa)
16:10 - 16:30	Rosenthal A. et al. (speaker : Link K.) Geochemical constraints on the origin of silica-poor alkaline volcanic rocks in the Toro- Ankole and Bufumbira regions of western Uganda
16:30 - 17:30	Discussion and closing session

POS TERS

01	Albaric J. et al.	SEISMO-TANZ'07: A dense seismological broadband network for a seismotectonic and structural study of the North Tanzanian Divergence
02	Atanga M. et al. (speaker: Ernst G.)	Health and environmental impact from basaltic ash falls : The case of the 1999 eruption of Mt Cameroon
03	Chakrabarti R. et al. (speaker: Basu A.)	Determining Eruption Ages and Timescales of Magmatic Processes in the Nyiragongo and Nyamuragira volcanics from U-Th-Ra disequilibria
04	Chakrabarti R. et al. (speaker: Basu A.)	Isotopic and Geochemical study of the Nyiragongo and Nyamuragira volcanics in the western rift, East African rift system
05	van Cranenbroeck J. et al.	Deployment of a GNSS volcano monitoring network on Nyiragongo.
06	Durieux J.	Title to be communicated - topic: UN support to GVO and risk assessment
07	Ernst G. et al.	Morphometry and dynamics of a basaltic eruption: The case of the 1999 SW rift zone eruption of Mount Cameroon
08	Fontijn K. et al.	Volcanotectonic architecture of Rungwe Volcanic Province (SW Tanzania) : Low cost remote sensing study.
09	Fontijn K. et al.	A review on recent volcanology and volcanic hazards in the Rungwe Volcanic Province (SW Tanzania).
10	Frischknecht C. et al.	Challenges of SAR interferometry on Mount Cameroon
11	Galle B. et al.	Installation and first results from sulfur dioxide gas measurements on Nyiragongo within the Novac Project
12	Hashimoto M. et al. (speaker: d'Oreye N.)	Coseismic and Postseismic Displacements From the Mozambique Earthquake of 22 February 2006 Detected by InSAR
13	Head E. et al.	Eruptions of Nyamuragira Volcano, D.R. Congo (1980-2006)
14	Kervyn M. et al.	Analogue modelling of magma ascent and how it can be used to anticipate outbreak location at Central African volcanoes
15	Kies A. et al.	CO2 and radon measurements around Nyiragongo volcano
16	Lukaya F.et al.	Are seismicity and magma output at Nyamuragira in an increasing stage?
17	Mafany G.et al.	Using lightning detection for a low cost monitoring of explosive eruptions in Sub-Saharan Africa: The case of Mount Cameroon
18	Mathieu L. and van Wyk de Vries B.	Sub-volcano complexes morphology and deformations that their formation induce in a volcanic edifice

19	Modisi M. et al.	Trans-Kalahari rifting: the case of the Okavango and Makgadikgadi basins, northern Botswana
20	Njome S. et al. (speaker: Ernst G.)	Mineral Chemistry and Whole Rock Geochemical Data of the Mount Cameroon Rift Basalts: Implications for Petrogenetic and Geotectonic Evolution
21	Njome S. et al.	Loading And Structural Instability At The Mount Cameroon Volcano, West Africa.
22	Nkono C. et al.	Geodynamic framework of Cameroon Volcanic Line highlighted by Shuttle Radar Topography Mission (SRTM) Digital Elevation Models (DEMs)
23	Ntasin G. et al.	Bambouto Caldera Formation and the 20th July 2003 landslides phenomena along the volcanic line, Cameroon
24	d'Oreye N. et al.	A major rifting event detected by InSAR : The Lake Natron (Tanzania) July 2007 crisis.
25	Pasche N. et al.	Methane in Lake Kivu: risks of gas eruption?
26	Savelli C. (no speaker)	Oligo-Miocene rift of the West Mediterranean area and the subsequent onset of westwards subduction
27	Sawyer G. et al.	Investigation into magma degassing at Nyiragongo volcano, Democratic Republic of Congo
28	Smets B. et al.	The "Mazukus" in south of Nyiragongo and Nyiamulagira (Democratic Republic of Congo): hypothesis of formation and first risk assessment.
29	Tassi F. et al. (speaker: Vaselli O.)	Chemical and isotopic stratigraphy of water and dissolved gases at Lake Kivu
30	Trefois J.	The International Charter of Space and Major Disasters: the 2002 Nyiragongo Emergency, city of Goma, North Kivu, D.R. Congo
31	Tsafack J. et al.	Occurrence of a sedimentary basement under the Mount Cameron active volcano (Cameroon Volcanic Line)
32	Wafula M. et al.	Seismic activity associated to the Nyamuragira eruptions for the period from 2000 to 2006, Virunga Region, D.R. Congo
33	Wafula M. et al.	Impacts of the eruptions of Nyiragongo on January 17, 2002 and Nyamuragira November 27, 2006 on the environment
34	Wandji P. et al.	The mount Manengouba, a mio-quarternary horst stratovolcano of the Cameroon Volcanic Line (Central Africa): new volcanic successions, geochemical evidence and isotopic data