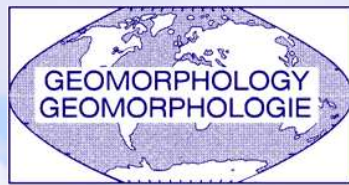


International Association of Geomorphologists
Association Internationale de Géomorphologues



IAG/AIG REGIONAL CONFERENCE 2011

GEOMORPHOLOGY FOR HUMAN ADAPTATION TO
CHANGING TROPICAL ENVIRONMENTS

GHION HOTEL
ADDISABABA, ETHIOPIA

FEBRUARY 18-22, 2011

ABSTRACT VOLUME

Editors:

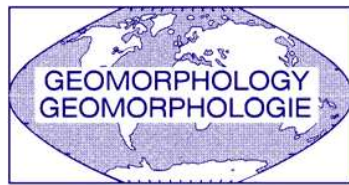
Asfawossen Asrat, Francesco Dramis, Jan Nyssen, Mohammed Umer

Cover Photo: *Amba Seneyti, Tigray, Northern Ethiopia. Triassic sandstone tor overlying Palaeozoic tillites, which in turn lie over upper Proterozoic metavolcanics-metasediments.*

[Photo © Asfawossen Asrat, 2010]

IAG-2011, ADDIS ABABA, ETHIOPIA, 18-22 FEBRUARY 2011

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CONFERENCE ORGANIZATION

ORGANIZED BY

EAG - ETHIOPIAN ASSOCIATION OF GEOMORPHOLOGISTS

WITH THE SUPPORT OF

Department of Earth Sciences, Addis Ababa University, Ethiopia,
Paleoanthropology & Paleoenvironment Program, Addis Ababa University, Ethiopia
Mekelle University, Ethiopia
Department of Geological Sciences, "Roma Tre" University, Rome, Italy
AIGEO - Italian Association of Physical Geography and Geomorphology, Italy
BAG - Belgian Association of Geomorphologists, Belgium

ORGANIZING COMMITTEE

Asfawossen Asrat - Department of Earth Sciences, Addis Ababa University, Ethiopia
Mohammed Umer - Department of Earth Sciences, Addis Ababa University, Ethiopia
Francesco Dramis - Department of Geological Sciences, "Roma Tre" University, Rome, Italy
Jan Nyssen - Department of Geography, University of Ghent, Belgium

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Mohammed Umer - Department of Earth Sciences, Addis Ababa University, Ethiopia

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Kifle Woldearegay – Department of Applied Geology, Mekelle University, Ethiopia
Gezahegn Yirgu - Department of Earth Sciences, Addis Ababa University, Ethiopia

WE GREATLY APPRECIATE FINANCIAL SUPPORT FROM

IAG (International Association of Geomorphologists)

CONFERENCE PROGRAM

February 18, 2011

14.00 - 17.00 Registration Desk
19.00 - Welcome Party

February 19, 2011

8.00 - 18.00 Registration
9.00 - 9.50 Opening Ceremony (welcome addresses by IAG, EAG and the Guest of Honour)
9.50 - 10.30 Invited talk by Ilaria Lener from IAG
10.40 - 11.00 Break
11.00 - 13.00 Parallel Sessions ECHI/LDR
13.00 - 14.00 Lunch
14.00 - 16.40 Parallel Sessions ECHI+GGA/LDR
16.40 - 17.00 Break
17.00 - 17.40 Poster Session
17.40 - 18.10 Keynote Lecture by Martin Williams
18.10 - 18.40 Keynote Lecture by Jean Poesen

February 20, 2011

Mid-Conference Excursions

February 21, 2011

8.00 - 10.00 Parallel Sessions LHAZ/MATVG
10.00 - 10.20 Break
10.20 - 12.20 Parallel Sessions LHAZ+GGT/MATVG
12.20 - 13.20 Lunch
13.20 - 15.40 Parallel Sessions FGFH/PG
15.40 - 16.00 Break
16.00 - 16.40 Poster Session
16.40 - 17.10 Keynote Lecture by Olav Slaymaker
17.10 - 17.40 Keynote Lecture by Andrew Goudie
17.40 - 18.10 Keynote Lecture by Antonio Cendrero

February 22, 2011

8.00 - 10.20 Parallel Sessions QSP/DGD
10.20 - 10.40 Break
10.20 - 12.20 Parallel Sessions GM/GEEG
12.20 - 13.20 Lunch
13.20 - 14.20 Parallel Sessions GM/GEEG
14.20 - 15.20 Poster Session
15.20 - 15.40 Break
15.40 - 16.10 Second invited talk by Ilaria Lener
16.10 - 16.40 Keynote Lecture by Cliff Ollier
16.40 - 17.10 Keynote Lecture by Mike Crozier
17.10 - 17.40 Closing Ceremony
19.00 - Farewell Banquet

PROGRAM LAYOUT

Date: February 18, 2011 Venue: Saba Hall	
Time	Activity
14.00 – 17.00	Registration at the Ghion Hotel
19.00 -	Welcome (Ice Breaker) Party at the Lucy Restaurant
Date: February 19, 2011 Venue: Saba Hall	
8.00 - 18.00	Registration
9.00 – 9.50	Opening Ceremony (welcome addresses by IAG, EAG and the Guest of Honour)
9.50 – 10.30	Invited talk by Ilaria Lener: International Cooperation and African countries: enhancing scientific excellence through mobility and training
10.30 – 11.00	Coffee/tea Break
Session 1: ENVIRONMENTAL CHANGE AND HUMAN IMPACT (ECHI) Conveners/Chairs: A. Pérez Gonzales, A. Goudie Venue: Saba Hall	
11.00 – 11.20	<u>Viel V., Le Gouée P. & Delahaye D.</u> - <i>Impacts of climate change on the sensitivity of agricultural land to erosion hazard</i>
11.20 – 11.40	<u>Nyssen J., Frankl A., Mitiku Haile, Hurni H., Descheemaeker K., Ritler A., Crummey D., Nievergelt B., Moeyersons J., Munro R.N., Portner B., Deckers J., Billi P. & Poesen J.</u> - <i>Are changes in north Ethiopian mountain landscapes over the last 140 years caused by changing climate, or by human-induced degradation and rehabilitation?</i>
11.40 – 12.00	<u>Moeyersons J., Vandecasteele I. & Trefois P.</u> - <i>Applications of the topographic thresholds slope and runoff area in the study of hillslope incisions along the Albertine Rift in Kivu (DR of the Congo), Rwanda and Burundi</i>
12.00 – 12.20	<u>Getachew Eshetu</u> - <i>An upland farming system under transformation: Proximate causes of land use change in Bela-Welleh catchment (Wag, Northern Ethiopian Highlands)</i>
12.20 – 12.40	<u>Yu Ge, Shen Huadong & Ke Xiankun</u> - <i>Geomorphologic system changes in river-lake of Yangtze River and the lacustrine sediments and pollen disposition responses</i>
12.40 – 13.00	<u>Prokop P. & Bhattacharyya A.</u> - <i>Environmental response to human impact on the Meghalaya Plateau (NE India) during the last 2500 yrs BP</i>
Session 2: LAND DEGRADATION AND RESILIENCE (LDR) Conveners/Chairs: Mitiku Haile, J. Nyssen, O. Slaymaker Venue: Hall 1	
11.00 – 11.20	<u>Rosell S.</u> - <i>Soil productivity and food security in the central highlands of Ethiopia</i>
11.20 – 11.40	<u>Frankl A., Poesen J., de Dapper M., Deckers J., Mitiku Haile & Nyssen J.</u> - <i>Assessing gully headcut retreat rates in the semi-arid highlands of North Ethiopia</i>
11.40 – 12.00	<u>Claessens L., Schoorl J.M., Verburg P.H., Geraedts L. & Veldkamp A.</u> - <i>Modelling interactions and feedback mechanisms between land use change and landscape processes</i>
12.00 – 12.20	<u>Afana A., Solé-Benet A. & Pérez J.L.</u> - <i>Determination of soil erosion using laser scanners</i>
12.20 – 12.40	<u>Tesfay Araya, Cornelis W.M., Nyssen J., Govaerts B, Fekadu Getnet, Bauer H., Raes D., Kindeya Gebrehiwot, Teklit Yohannes & Deckers J.</u> - <i>Effects of resource-conserving tillage in the Ethiopian highlands, a sustainable option for soil and water management and crop productivity. A case study from Dogua Tembien</i>

12.40 – 13.00	<u>Ciampalini R.</u> , Billi P., Follain S., Le Bissonnais Y., Ferrari G. & Borselli L. - <i>Long-term soil erosion analysis on the terrace systems of the archaeological area of Aksum (Ethiopia)</i>
13.00 – 14.00	Lunch Break
Session 1: ENVIRONMENTAL CHANGE AND HUMAN IMPACT (ECHI) Conveners/Chairs: A. Pérez Gonzales, A. Goudie Venue: Saba Hall	
14.00 – 14.20	Embleton-Hamann C. - <i>The importance of landuse and landcover changes in the Austrian Alps</i>
14.20 – 14.40	Lajczak A. - <i>Geomorphological development of post-peat areas in the Polish Carpathian Mts. over the last ca. 200 years</i>
14.40 – 15.00	<u>Móga J.</u> , Szabó M., Borsodi A.K., Kiss K., Kéri A., Darabos G., Mari L. & Knáb M. - <i>Investigations of the changes (degradation) of karst landscapes and epikarst due to human impact in two Hungarian karst areas</i>
15.00 – 15.20	Rączkowska Z. - <i>Recent transformation of alpine debris slopes in the Tatra mts. (Poland)</i>
Session 1: GEOHERITAGES AND GEOARCHAEOLOGY (GGA) Conveners/Chairs: Asfawossen Asrat, Z. Zwolinski Venue: Saba Hall	
15.20 – 15.40	<u>Fouache E.</u> , Cosandey C., Chahryar Adle & Coussot C. - <i>The fault of Bam (South Eastern Iran), regional water resources and human settlements from the Chalcolithic period to present times</i>
15.40 – 16.00	<u>Chabrol A.</u> , Fouache E., Lecoœur C., Apostolopoulos G. & Pavlopoulos K. - <i>Reconstructing the early/mid Holocene landscape evolution of the Thyamis delta (Greece): implications for human populations</i>
16.00 – 16.20	Ackermann O. - <i>Reading the field: geoarchaeological codes in the Israeli landscape</i>
16.20 – 16.40	<u>Ecochard E.</u> , Fouache E., Kuzucuoğlu C., Carcaud N., Ekmekçi M., Ulusoy I., Çiner A., Cavalier L. & des Courtils J. - <i>Promoting the geomorphological heritage of the plain of Xanthos and Letoon (Turkey): Issues, practices and problems</i>
Session 2: LAND DEGRADATION AND RESILIENCE (LDR) Conveners/Chairs: Mitiku Haile, J. Nyssen, O. Slaymaker Venue: Hall 1	
14.00 – 14.20	Teka D., <u>van Wesemael B.</u> , Poesen J., Hallet V., Vanacker V., Deckers S., Taye G. & Haregeweyn N. - <i>A trade-off between fighting land degradation and water harvesting in northern Ethiopia</i>
14.20 – 14.40	<u>Amanuel Zenebe</u> , Atkilt Girma, Vanmaercke M., Nyssen J., Verstraeten G., Mitiku Haile, Kassa Amare, Deckers J. & Poesen J. - <i>Intra-seasonal sediment yield variability in response to catchment greenness as detected by hyper-temporal SPOT NDVI image analysis in Geba catchment, Northern Ethiopia</i>
14.40 – 15.00	Thomaz E.L. - <i>Microcatchment hydrological response and sediment transport under simulated rainfall, Guarapuava – Brazil</i>
15.00 – 15.20	
15.20 – 15.40	
15.40 – 16.00	
16.00 – 16.20	
16.20 – 16.40	
16.40 – 17.00	Coffee/tea Break
17.00 – 17.40	<i>Poster Sessions (see separate list for posters)</i>

	-ENVIRONMENTAL CHANGE AND HUMAN IMPACT (ECHI) -LAND DEGRADATION AND RESILIENCE (LDR) -GEOHERITAGES AND GEOARCHAEOLOGY (GGA) -LANDSLIDE HAZARD ASSESSMENT AND ZONING (LHAZ) -GEODIVERSITY AND GEOTOURISM (GGT)
Keynote Lectures; Venue: Saba Hall	
17.40 – 18.10	Martin Williams - Geomorphic evolution of the Ethiopian tributaries of the Nile: volcanism, tectonism, climatic change, and human impact
18.10 – 18.40	Jean Poesen - Research challenges for soil erosion, soil and water conservation in tropical environments
Date: February 20, 2011	
Mid-Conference excursions	
Date: February 21, 2011	
Session 1: LANDSLIDE HAZARD ASSESSMENT AND ZONING (LHAZ)	
Conveners/Chairs: Bekele Abebe, J. Moeyersons	
Venue: Saba Hall	
8.00 – 8.20	Williamson S.J. & <u>Dias A.</u> - <i>Geomorphological mapping for natural terrain hazard assessment, Hong Kong</i>
8.20 – 8.40	<u>Solomon Hishe</u> , Adalberto A. & Alfred T. - <i>Landslide susceptibility assessment in Kilde_Awulaelo Woreda, Tigray Region, Ethiopia</i>
8.40 – 9.00	<u>Kifle Woldearegay</u> , Schubert W., Klima K. & Aberra Mogessie - <i>Application of analytical hierarchy process (AHP) for GIS-based landslide susceptibility mapping; the case of northern highlands of Ethiopia</i>
9.00 – 9.20	Kalita K. - <i>Landslide hazards of Gangtok, Sikkim (India)</i>
9.20 – 9.40	<u>Soldati M.</u> , Bruschi V.M., Devoto S., González Díez A., Mantovani M., Pasuto A. & Piacentini D. - <i>A multi-technical integrated approach to investigate lateral spreading phenomena in the north-west coast of Malta</i>
9.40 – 10.00	<u>Migoń P.</u> & Kasprzak M. - <i>Using LiDAR to detect landslide remnants under forest. A study from SW Poland</i>
Session 2: MORPHOTECTONICS, ACTIVE TECTONICS & VOLCANIC GEOMORPHOLOGY (MATVG)	
Conveners/Chairs: M. Coltorti, Gezahegn Yirgu, C.D. Ollier	
Venue: Hall 1	
8.00 – 8.20	Vandenbergh J. - <i>Differential tectonic Impact on fluvial evolution (Huang Shui, China)</i>
8.20 – 8.40	<u>Coltorti M.</u> , Pizzi A., Bekele Abebe, Disperati L., Firuzabadi D., Pomposo G., Sacchi G. & Salvini R. - <i>Geomorphology of the southern border of Afar in the Dire Dawa district (Ethiopia)</i>
8.40 – 9.00	<u>Ufimtsev G.</u> & Shchetnikov A. - <i>Morphotectonics and lakes of the inner and eastern Asia Rift systems</i>
9.00 – 9.20	<u>Papanastassiou D.</u> , Gaki-Papanastassiou K. & Karymbalis E. - <i>Geomorphological observations in the Mani Peninsula, (South Peloponnesus, Greece) and their seismotectonic implications</i>
9.20 – 9.40	<u>Molin P.</u> , Sperini S., Nocentini M., Fubelli G., Scotti V.N., Dramis F. & Grecu F. - <i>The interplay of mantle dynamics, tectonics, and surface processes: the Romanian Carpathians topography</i>
9.40 – 10.00	<u>Scotti V.</u> , Molin P. & Dramis F. - <i>The Influence of surface and tectonic processes in the Late Miocene to Quaternary landscape evolution of Western Alps: a quantitative</i>

	<i>geomorphological analysis</i>
10.00 – 10.20	Coffee/tea Break
Session 1: LANDSLIDE HAZARD ASSESSMENT AND ZONING (LHAZ) Conveners/Chairs: Bekele Abebe, J. Moeyersons Venue: Saba Hall	
10.20 – 10.40	<u>Fubelli G.</u> & <u>Ferrari M.</u> - <i>Rainstorm-triggered shallow landslides in a urban context: the case of S. Vito Romano (Rome, Italy)</i>
10.40 – 11.00	<u>Gutiérrez F.</u> , <u>Guerrero J.</u> , <u>Galve J.P.</u> , <u>Lucha P.</u> , <u>García-Ruiz J.M.</u> , <u>Bonachea J.</u> & <u>Carbonell D.</u> - <i>Detailed mapping of landslides in the Gállego glacial valley (Spanish Pyrenees) as a basis for hazard analysis and risk mitigation</i>
Session 1: GEODIVERSITY AND GEOTOURISM (GGT) Conveners/Chairs: Metasebia Demissie, Frances Williams Venue: Saba Hall	
11.00 – 11.20	<u>Thomas M.</u> - <i>Geodiversity and landscape sensitivity – engaging geomorphology in a new dialogue about geoconservation</i>
11.20 – 11.40	<u>Asfawossen Asrat</u> , <u>Metasebia Demissie</u> & <u>Aberra Mogessie</u> - <i>Geo-scenery based on geodiversity in Ethiopia</i>
11.40 – 12.00	<u>Williams F.</u> - <i>Ethiopia: a geotourist's perspective</i>
12.00 – 12.20	<u>Zbigniew Zwolinski</u> - <i>Geodiversity of Tatra Mts., Poland</i>
Session 2: MORPHOTECTONICS, ACTIVE TECTONICS & VOLCANIC GEOMORPHOLOGY (MATVG) Conveners/Chairs: M. Coltorti, Gezahegn Yirgu, C.D. Ollier Venue: Hall 1	
10.20 – 10.40	<u>Stamatopoulos L.</u> , <u>Pavlidis S.</u> & <u>Kamberis S.</u> - <i>Evolution of a fault-line scarp after the 8 June, 2008 earthquake, in the western Peloponnese</i>
10.40 – 11.00	<u>Panin A.</u> & <u>Selezneva E.</u> - <i>Active tectonic and seismicity in permafrost environment: the Terekhol Basin, Southern Siberia</i>
11.00 – 11.20	<u>Sheth H.C.</u> - <i>Volcanic geomorphology of flood basalt provinces: an overview of the Deccan Traps and similarities with the Ethiopian Traps</i>
11.20 – 11.40	<u>Purcell P.</u> , <u>Mege D.</u> & <u>Jourdan F.</u> - <i>Volcanic geomorphology of Southeast Ethiopia</i>
11.40 – 12.00	<u>Zangmo Tefogoum G.</u> , <u>Kagou Dongmo A.</u> , <u>Nkouathio D. G.</u> & <u>Wandji P.</u> - <i>Hazards zonation and assessment of the associated risks in the Mount Manengouba Caldera (Cameroon volcanic line)</i>
12.00 – 12.20	<u>Gountié Dedzo M.</u> , <u>Nono A.</u> , <u>Kamgang P.</u> , <u>Njonfang E.</u> , <u>Zangmo Tefogoum G.</u> & <u>Nédélec A.</u> - <i>Evaluation and mapping of the volcanic hazard related to the ignimbritic eruption by AMS in Mount Bambouto, West Cameroon</i>
12.20 – 13.20	Lunch Break
Session 1: FLUVIAL GEOMORPHOLOGY AND FLOODING HAZARD (FGFH) Conveners/Chairs: P. Billi, M.J. Machado Venue: Saba Hall	
13.20 – 13.40	<u>Billi P.</u> & <u>Aklilu Amsalu</u> - <i>Sediment transport of a flash flood stream in Tigray, Ethiopia</i>
13.40 – 14.00	<u>Douvinet J.</u> , <u>Delahaye D.</u> & <u>Langlois P.</u> - <i>Linking surface flow concentration and geomorphic forms in dry valleys: what kind of information the CA model RuiCells supports?</i>
14.00 – 14.20	<u>Oliveira F.A.</u> - <i>Analysis of suspended sediment variation in a subtropical watershed, Southern Brazil</i>
14.20 – 14.40	<u>Rowntree K.M.</u> & <u>Van der Waal B.W.</u> - <i>A geomorphological response model for</i>

	<i>predicting habitat change in non-perennial river systems: lessons from the Mokolo River, Limpopo Province, South Africa</i>
14.40 – 15.00	Lajczak A. - <i>Deltas development in dam-retained lakes in the Carpathian part of the Vistula River drainage basin, Southern Poland</i>
15.00 – 15.20	<u>Pandey P.K.</u> & Das S.S. – <i>A new hypothesis in stream ordering methodology</i>
15.20 – 15.40	<u>Mazurek M.</u> , Dobrowolski R., Osadowski Z. - <i>Role of geological and hydrological factors in the development of spring mires in the Parsęta River catchment (Northern Poland)</i>
Session 2: PLANETARY GEOMORPHOLOGY (PG) Conveners/Chairs: R.M.C. Lopes, J. Radebaugh Venue: Hall 1	
13.20 – 13.40	<u>McEwen A.S.</u> & the HiRISE Team - <i>Meter-scale geomorphology of Mars</i>
13.40 – 14.00	<u>Mège D.</u> , Le Deit L., Lucas A. & Bourgeois O. – <i>Gravitational spreading of high wallslopes on Mars: evidence of past tropical glaciations on Mars</i>
14.00 – 14.20	<u>Radebaugh J.</u> , Barth B, Schleiffarth K., Lopes R.M.C. & Christiansen E.H. - <i>Global volcanism and tectonism on Jupiter’s moon Io as manifested in surface features</i>
14.20 – 14.40	Lorenz R. - <i>Titan’s lakes, dunes and wadis: an arid landscape shaped by methane weather</i>
14.40 – 15.00	Pappalardo R.T. - <i>Ridge and trough terrains on outer planet satellites</i>
15.00 – 15.20	<u>Lopes R.M.C.</u> , Peckyno R., Stofan E.R., Radebaugh J. & the Cassini RADAR Team - <i>Geomorphological mapping of Saturn’s moon Titan</i>
15.20 – 15.40	<u>Dinięga S.</u> , Bridges N.T., Byrne S., Dundas C.M., Hansen C.J. & McEwen A.S. - <i>Seasonal activity within Martian dune gullies</i>
15.40 – 16.00	Coffee/tea Break
16.00 – 16.40	<i>Poster Sessions (see separate list for posters)</i> -MORPHOTECTONICS, ACTIVE TECTONICS & VOLCANIC GEOMORPHOLOGY (MATVG) -FLUVIAL GEOMORPHOLOGY AND FLOODING HAZARD – FGFH -DRYLANDS GEOMORPHOLOGY AND DESERTIFICATION (DGD) -QUATERNARY STRATIGRAPHY AND PALAEOCLIMATES (QSP)
Keynote Lectures; Venue: Saba Hall	
16.40 – 17.10	Slymaker O. - Drivers of landscape change during the present century
17.10 – 17.40	Goudie A. - Environmental changes in Africa – Past, present and future
17.40 – 18.10	Cendrero A. - Evidences of major changes in Earth’s surface processes. Should the Anthropocene be considered as a new period in geologic history?
Date: February 22, 2011	
Session 1: QUATERNARY STRATIGRAPHY AND PALAEOCLIMATE (QSP) Conveners/Chairs: Mohammed Umer, M. Williams Venue: Saba Hall	
8.00 – 8.20	Mohammed Umer - <i>Glaciation, deglaciation and postglacial history of the Ethiopian mountains</i>
8.20 – 8.40	<u>Pietsch D.</u> & Kühn P. - <i>Palaeosols as proxies for Holocene climate change along the ITCZ (Yemen, Ethiopia)</i>
8.40 – 9.00	<u>Accioly Teixeira de Oliveira M.</u> , Porsani J.L., Leite de Lima G., Jeske-Pieruschka V. & Behling H. - <i>Highland peatland evolution in Southern Brazil, since the Late Pleistocene, as depicted by radar stratigraphy, sedimentology and palynology</i>
9.00 – 9.20	<u>Machado M.J.</u> & Pérez-González A. - <i>Land cover resilience and environmental changes during the last 3000 yrs in Northern Ethiopia: phytolith and palaeosols evidences</i>

9.20 – 9.40	<u>Chunchang Huang</u> , Xiaochun Zha & Yali Zhou - <i>Extraordinary floods recorded by slackwater deposit during the 4200 a BP climatic event in the middle reaches of the Yellow River, China</i>
9.40 – 10.00	<u>Karasiewicz M.T.</u> & Hulisz P. - <i>Reconstruction of the environmental changes during the Late Vistulian and Holocene (north-central Poland) using kettle-hole sediment analysis</i>
10.00 -10.20	<u>Dramis F.</u> , Fubelli G. & Mazzini I. - <i>Aggradation/erosion of tufa and paleoclimatic implications: the Nera River dam at Triponzo (Central Italy)</i>
Session 2: DRYLANDS GEOMORPHOLOGY AND DESERTIFICATION (DGD) Conveners/Chairs: J. Poesen, M. Thomas Venue: Hall 1	
8.00 – 8.20	<u>Smolska E.</u> , Dłużewski M. & Biejat K. - <i>Present-day development of gullies in semi-dry areas: examples from the Gabes region (N Tunisia)</i>
8.20 – 8.40	<u>Penven M.J.</u> , Bouhahad Smail & Cotonnec A. - <i>Control of geomorphic patterns on the development of aeolian processes during the last dry period in a Sahelian region (1970-1999)</i>
8.40 – 9.00	Dunkerley D.L. - <i>Hillslope and river responses to climate change – analyses from inland Australia</i>
9.00 – 9.20	Xinbao Zhang - <i>Mechanisms for the formation of dry planation surfaces</i>
9.20 – 9.40	<u>Abd Elbasit M.A.M.</u> , Yasuda H., Kimura R. & Fan J. – <i>Spatiotemporal variability of rainfall erosivity in Loess Plateau, China</i>
9.40 – 10.00	<u>Cantón Y.</u> , Chamizo S., Rodriguez-Caballero E., Miralles-Mellado I., Lázaro R., Domingo F., Calvo-Cases A. & Sole-Benet A. - <i>Key variables of soil crusting involved in their hydrological and erosive response</i>
10.00 – 10.20	
10.20 – 10.40	Coffee/tea Break
Session 1: GEOMORPHOLOGICAL MAPPING (GM) Conveners/Chairs: F. Dramis, P. Paron Venue: Saba Hall	
10.40 – 11.00	<u>Coltrinari L.</u> & Reis J.P.P. - <i>Geomorphologic Information Systems, why not?</i>
11.00 – 11.20	<u>Junqueira Villela F.N.</u> & Sanches Ross J.L. - <i>Rock-soil-relief relationships in the transition of the Atlantic Plateau to the Peripheral Depression of Sao Paulo</i>
11.20 – 11.40	Coltorti M., Firuzabadi D. & <u>Pieruccini P.</u> - <i>The 1:200,000 scale geomorphological map of the Siena Province (Southern Tuscany, Italy)</i>
11.40 – 12.00	<u>Mulas M.</u> , Fubelli G., Sandric I., Balteanu D., Micu M. & Ignat P. - <i>Morphodynamic mapping of landslide affected slopes: the case of the Groapa Vantului (Romania)</i>
12.00 – 12.20	<u>Szefler K.</u> , Tęgowski J. & Nowak J. - <i>Mapping of Southern Baltic submarine landscapes and habitats</i>
Session 2: GEOMORPHOLOGICAL ENVIRONMENTS AND ENVIRONMENTAL GEOMORPHOLOGY (GEEG) Conveners/Chairs: A. Mottana, H. Regnaud Venue: Hall 1	
10.40 – 11.00	<u>Asfawossen Asrat</u> , Baker A., Agazi Negash - <i>Geomorphology of limestone terrain of Tigray, Northern Ethiopia: implication for cave formation and speleothem growth</i>
11.00 – 11.20	<u>Regnaud H.</u> , Pian S., Musereau J., Haya M. & Menier D. - <i>Present forcings on coastal evolution: the coastlines of western France</i>
11.20 – 11.40	<u>Haubold F.</u> & Faust D. - <i>The bolsa phenomenon: a conceptual model of its origin</i>
11.40 – 12.00	<u>Joubert R.</u> & Ellery W.N. - <i>Controls on wetland formation and geomorphic dynamics:</i>

	<i>the case of Wakkerstroom Vlei, Mpumalanga Province, South Africa</i>
12.00 – 12.20	Lebedeva E. - <i>Planation surfaces of South Africa and topographic levels of the Drakensberg</i>
12.20 – 13.20	Lunch Break
Session 1: GEOMORPHOLOGICAL MAPPING (GM) Conveners/Chairs: F. Dramis, P. Paron Venue: Saba Hall	
13.20 – 13.40	Andrzejewski L. - <i>Geomorphological map of the forefield of Tungnaárjökull (Iceland)</i>
13.40 – 14.00	Kit-Ying Ng, Millis S.W. & Wallace M.I. - <i>Characterising natural terrain landslide distribution at Catchment Scale, West Lantau, Hong Kong</i>
14.00 – 14.20	Sadiki Ndyanabo, Ine Vandecasteele, Jan Moeyersons, Philippe Trefois, André Ozer, Pierre Ozer, Kalegamire Dunia, Bahati Cishugi - <i>Vulnerability mapping for sustainable hazard mitigation in the city of Bukavu, South Kivu, DR Congo</i>
Session 2: GEOMORPHOLOGICAL ENVIRONMENTS AND ENVIRONMENTAL GEOMORPHOLOGY (GEEG) Conveners/Chairs: A. Mottana, H. Regnaud Venue: Hall 1	
13.20 – 13.40	Goracci G., Bonavia F. & Mottana A. - <i>The non-diamondiferous rocks occurring in the vicinity of the Mega diatreme (Sidamo, Ethiopia)</i>
13.40 – 14.00	Bruschi V.M., Otero C., Machado C., Arias R. & Cendrero A. - <i>Development and application of a methodological tool for landscape impact assessment in mining areas. Application as a decision-support tool for impact mitigation</i>
14.00 – 14.20	Bondesan A., Francese R., Coren F. & Fabbrucci L. - <i>Geomorphological study of the El Alamein battlefield (Egypt): a military geology approach</i>
14.20 – 15.20	<i>Poster Sessions (see separate list for posters)</i> -GEOMORPHOLOGICAL MAPPING (GM) -GEOMORPHOLOGICAL ENVIRONMENTS AND ENVIRONMENTAL GEOMORPHOLOGY (GEEG)
15.20 – 15.40	Coffee/tea break
Keynote Lectures; Venue: Saba Hall	
15.40 – 16.10	Ilaria Lener – Second talk
16.10 – 16.40	Ollier C.D. - <i>Variety in rift valleys and in passive margins</i>
16.40 – 17.10	Crozier M.J. - <i>Locational controls of landslides: where will the next one occurs?</i>
17.10 – 17.40	Closing Ceremony
19.00 –	Farewell Banquet

SCHEDULE OF POSTER PRESENTATION

February 19/2011

Venue: Hall 1; Time: 17.00 – 17.40

ENVIRONMENTAL CHANGE AND HUMAN IMPACT (ECHI)

1. Florek W., Kaczmarzyk J. & Majewski M. - Evolution of a South Baltic Sea cliff near Ustka (Poland): natural and human impact
2. Paron P. & Munro R.N. - Analysis of environmental change in Somalia using historical aerial photography archives
3. Zaporozhchenko E.V. - The influence of the changing climate on conditions of initiation, movement and discharge of debris flows on mountainous rivers in the Northern Caucasus (Russia)

LAND DEGRADATION AND RESILIENCE (LDR)

1. Afana A., Del Barrio G. & Solé-Benet A. - Landform delineation using semivariograms in real dataset structures
2. Barreiros A.M. & De Oliveira D. - Study of the genesis of a Red Ferric Latosolic Nitisol in an area of lithological interface, in the Municipality of Florai, State of Paraná, Brazil
3. Munro R.N., Mitiku Maile, Nyssen J., Virgo K.J., Wilson R.T., Poesen J., Deckers J., Frankl A. & Lewis J.G. - Landscape recovery and resilience in a badly degraded region – Tigray (Ethiopia) 1974 - 2006
4. Prokop P. - Soil degradation along rainfall gradient on the Meghalaya Plateau (NE India)

GEOHERITAGES AND GEOARCHAEOLOGY (GGA)

1. Migoń P., Billi P., Ciampalini R. & Ferrari G. - Geomorphology of nephelinite syenite stocks around Aksum, northern Ethiopia - adding earth science value to the Aksum world heritage site
2. Skovitina T. & Angelelli F. - Geoheritage of Baikal Lake coast zone

LANDSLIDE HAZARD ASSESSMENT AND ZONING (LHAZ)

1. Kassa Amare, Kurkura Kebato & Assay Gebremichael - Landslide hazard and risk assessment: a case study from Keyhi-Tekeli village Adi-Shu area, southern Tigray
2. Aringoli D., Bisci C., Dramis F., Farabollini P., Gentili B., Materazzi M. & Pambianchi G. - Disturbances to buildings as indicators of slope gravitational processes: study cases from Central Italy
3. Carvalho Vieira B. & Dias Nery T. - Prediction of shallow landslides using SINMAP model in Serra do Mar, Brazil
4. Fort M & Cossart E. - Landslide hazards, settlements sites and development in the Nepal Himalayas
5. Fubelli G., Leoni G., Dramis F. & Puglisi C. - GIS methodology to assess landslide susceptibility: application to the piedmont of the Sila Greca (Calabria, Italy)
6. Lajczak A. - Neogene-Quaternary relief development of a highly elevated monoclinical flysch range modelled by huge landslides: case study from the Babia Gora Massif, Western Carpathian Mts.
7. Falconi L., Lentini A., Leoni G., Puglisi C. & Ramirez C. - Geomorphological approach to assess debris flow risk in the catchment of Alcamayo creek (Aguas Calientes, Cusco, Perú)

GEOBIODIVERSITY AND GEOTOURISM (GGT)

1. Junqueira Villela F.N. - Geological, geomorphological and climatic aspects of the Serra Geral do Tocantins ecologic station, Brazil
2. Strat D. - Geobiodiversity and geoconservation in the lagoonal littoral of Romanian Black Sea coast

3. Piotr Migoń, Paolo Billi, Rossano Ciampalini, Giovanni Ferrari - Geomorphology of nephelinite syenite stocks around Aksum, northern Ethiopia - adding Earth Science value to the Aksum World Heritage site
4. Tatiana Skovitina, Francesco Angelelli - Geoheritage of Baikal Lake coast zone

February 21/2011

Venue: Hall 1; Time: 16.00 – 16.40

MORPHOTECTONICS, ACTIVE TECTONICS & VOLCANIC GEOMORPHOLOGY (MATVG)

1. Coltorti M., Pizzi A., Bekele Abebe, Disperati L., Firuzabadì D., Pomposo G., Pontarelli L., Sacchi G. & Salvini R. - Geology and tectonic setting of Dire Dawa (southern Afar, Ethiopia)
2. Gaki-Papanastassiou K., Karymbalis E. & Papanastassiou D. - Uplifted marine terraces in Greece, their spatial distribution and morphotectonic implications, a synthesis
3. Mège D., Le Deit L., Rango T., Jourdan F., Tesfaye Korme, Lopez-Gonzalez T. & Purcell P. - Large-scale gravitational spreading in Southeast Ethiopia
4. de Pavia Reis J.P. & Ramos Tomazzoli E. - Geomorphological and geophysical procedures in neotectonics research at Vargem Do Braço River, Southern Brazil
5. Shchetnikov A. & Filinov I. - Tectogenic lakes of the Baikal rift zone

FLUVIAL GEOMORPHOLOGY AND FLOODING HAZARD (FGFH)

1. Yonas Tadesse Alemu - Socio-economic impacts of flooding in Dire Dawa, Ethiopia
2. Yonas Tadesse Alemu & Girma Moges Meshesha - Flood triggering factors and the efforts to mitigate flood disaster in Dire Dawa
3. Bezerra dos Santos A.H. & de Oliveira D. - Drainage derangement by a probable meteoritic impact in southwestern Brazil: the crater of Colônia and the Capivari River
4. Douvinet J. & Delahaye D. - Flash flooding in northern France, Europe
5. Gogoi B. - Fluvial geomorphology and flood problems in the Brahmaputra Valley
6. Karymbalis E., Gaki-Papanastassiou K. & Ferentinou M. - Geomorphic analysis of fan deltas and their contributing drainage basins along the Southern coast of the Gulf of Corinth, Central Greece
7. Lajczak A. - River training vs. flood exposure. Case study of the Nida River, Poland
8. Lamour M.R., Domit C. & de Paula E.V. - Geomorphologic estuarine characteristics regarding biodiversity conservation on south Brazilian coast
9. Lóczy D. - Flood hazard and floodplain management
10. Mahato R.K. & Shukla J. - Geohydrodynamics and sedimentation in the Kosi River basin
11. Pasa V. & de Oliveira D. - Review on the possible stream piracy drainages between the Middle Paraiba do Sul and High Tietê: the case of Guararema's elbow – Brazil
12. Pandey Pramod K., S. S. Das - Drainage pattern and linear morphometry of Barakar -Usri confluence region, Giridih, Jharkhand using G.I.S. technique

DRYLANDS GEOMORPHOLOGY AND DESERTIFICATION (DGD)

1. Munro R.N., Abuzeid H.M., Abdel Mahmoud M., el Hassan B. & El Siddig E. - Aeolian geomorphological, soil and ecological applications for sand dune stabilization in Arabia and North-East Africa – 1970s to present

QUATERNARY STRATIGRAPHY AND PALAEOCLIMATES (QSP)

1. Pelle T., Scarciglia F., La Russa M.F., Natali E. & Tinè V. - Multidisciplinary study of Holocene soils in the archaeological site "Piani della Corona" (SW Calabria, southern Italy): paleoenvironmental reconstruction
2. Wachecka-Kotkowska L. & Górska-Zabielska M. - Extent of the Middle Polish Glaciations (Warta Stadial, Late Saalian, MIS 6) in Central Poland in the light of a petrographic analysis

3. Osadczuk K., Borówka R.K., Osadczuk A., Witkowski A. & Duda T. - Stages of post-glacial evolution of the Odra River mouth area, Poland-Germany

February 22/2011

Venue: Hall 1; Time: 14.20 – 15.20

GEOMORPHOLOGICAL MAPPING (GM)

1. Tigist Araya, Nyssen J., Nurhussen Taha, Mitiku Haile, Atkilt Girma, Amanuel Zenebe, Poesen J., Mintesinot Behailu, Deckers J. & Baert G. - Conceptual modeling of soil-landscape relationships for soil classification and mapping on the Atsbi horst, Tigray, Ethiopia
2. Bondesan A., Francese R., Coren F., Busoni S. & Wardell N. - The average shear wave velocity map of the Province of Treviso: a geomorphological-geophysical integrated project
3. Borgatti L., Coratza P., Corsini A., Ghinoi A., Keim L., Marchetti M., Panizza M., Pasuto A., Piacentini D., Silvano S. & Soldati M. - Geomorphological map of the Alta Badia Valley (Dolomites, Italy)
4. Abd Elbasit M.A.M. & Yasuda H. - Close-range photogrammetry for soil microtopography evaluation
5. Greco F., Zaharia L., Carcimaru E., Comanescu L., Dobre R., Ghită C. & Ioana-Toroimac G. - Hydro-geomorphological vulnerability mapping (central sector of the Romanian Plain)
6. Guida D., Dramis F. & Cestari A. - From geomorphological mapping to geomorphological map modeling: a new GIS based, object-oriented, multi-scale mapping system
7. Miura Thiesen G. & de Oliveira D. - A geomorphologic description of the High Juqueri drainage basin (Southeast Brazil) as a contribution to comprehend the occupied areas inside of it
8. Paron P., Vargas Rojas R. & Omuto C.T. - Integrated landform mapping: methodology and application for digital soil mapping in Somalia
9. Perotti L., Giardino M. & Alberto W. - Geomatics applications for reliable geomorphological field mapping: examples from the Western Alps
10. Zwoliński Z. - Geodiversity maps for the western coast of Admiralty Bay, King George Island, Maritime Antarctica

GEOMORPHOLOGICAL ENVIRONMENTS AND ENVIRONMENTAL GEOMORPHOLOGY (GEEG)

1. Bruschi V., Coratza P., Devoto S., Piacentini D., Soldati M. & Giovanni Tosatti - Multidisciplinary investigations for the environmental rehabilitation of mining areas in the Rio della Rocca valley (Reggio Emilia Province, northern Italy)
2. de Bélizal É. & Lavigne F. - The part of human activity on volcanic valley dynamics and morphology: case study from block and sand mining, Gendol Valley (Merapi Volcano, Indonesia)
3. Efremov Yu.V. - Lacustrine morpholithogenesis on plains and foothills of the northern Caucasus
4. Gaki-Papanastassiou K., Karymbalis E., Maroukian H. & Tsanakas K - Geomorphological study of Cephalonia Island, Ionian Sea, western Greece
5. Florek W., Łęczyński L. & Majewski M. - Morphology of the beaches of Cape Verde Archipelago
6. Raczowska Z. - Some remarks on granitic relief of the Meghalaya Plateau
7. Sánchez-Cañete E.P., Serrano-Ortiz P., Kowalski A.S., Oyonarte C. & Domingo, F. - CO₂ ventilation in karst systems
8. Solé-Benet A., Contreras S., Miralles I. & Lázaro R. - Soil reconstruction in limestone quarries in semiarid SE Spain
9. Alemayehu Regassa Tolossa - Formation and characteristics of nitisols in South - West Ethiopia
10. Vespremeanu E. - Geomorphology of the western continental margin of the Black Sea
11. de Souto M. M. F., Ross J. L. S. - Geomorphology of the coastal plain of São Paulo, Brazil: a dynamic equilibrium study