
EGU 2008 Meeting Programme

Geomorphology

Monday

IS14 - GM1.1/PS3.8 Planetary Geomorphology (co-organized by GM & PS)

Convener: Balme, M.
Co-Convener(s): Gupta, S., van Gasselt, S.
Lecture Room 19
Chairperson: N.N.

15:30–15:45; EGU2008-A-10139; IS14 - GM1.1/PS3.8-1MO4O-001

Lorenz, R.; Radebaugh, J.; Wall, S.; Lopes, R.; Wood, C.; Radarteam, T.C.
Dunes on Titan : Cassini RADAR overview (solicited)

15:45–16:00; EGU2008-A-00961; IS14 - GM1.1/PS3.8-1MO4O-002

Tokano, T.
Dune-forming winds on Titan predicted by a general circulation model

16:00–16:15; EGU2008-A-11857; IS14 - GM1.1/PS3.8-1MO4O-003

Merrison, J.P.; Bertelsen, P.; Gunnlaugsson, H.P.; Kinch, K.M.; Jacobsen, T.; Jensen, A.E.; Leer, K.; Nørnberg, P.; Madsen, M.B.; Rasmussen, K.R.
Wind Driven Grain Transport on Earth and Mars.

16:15–16:30; EGU2008-A-04269; IS14 - GM1.1/PS3.8-1MO4O-004

Fourrière, A.; Claudin, P.; **Andreotti, B.**
What selects the wavelength at which subaqueous ripples form?

16:30–16:45; EGU2008-A-06945; IS14 - GM1.1/PS3.8-1MO4O-005

Tirsch, D.; Jaumann, R.; Poulet, F.; Matz, K.-D.; Bibring, J.-P.; Neukum, G.
The mineralogical composition of dark dunes in Martian craters – A global view

16:45–17:00; EGU2008-A-10679; IS14 - GM1.1/PS3.8-1MO4O-006

Wagner, R. J.; Neukum, G.; Roatsch, T.; Denk, T.; Wolf, U.; Porco, C. C.
Resurfacing by erosion, degradation and tectonism on Saturn's satellites Dione and Rhea and a comparison with the Jovian satellites Callisto and Ganymede

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-06151; IS14 - GM1.1/PS3.8-1MO5O-001

Bargery, AS; Wilson, L
Thermodynamical model of the formation of ice rafts on aqueous, laminar, ice-dominated flows in Amazonian outflow channels on Mars

17:45–18:00; EGU2008-A-11490; IS14 - GM1.1/PS3.8-1MO5O-002

Kim, J-R; Simpson, J.L.; Muller, J.-P.; Lin, S.-Y.
3D crater data base construction using automated and manual components for crater morphology

18:00–18:15; EGU2008-A-08992; IS14 - GM1.1/PS3.8-1MO5O-003

Hubbard, B.; Kargel, J.S.; Milliken, R.E.
Geologically recent wet-based valley glaciation on Mars

18:15–18:30; EGU2008-A-11260; IS14 - GM1.1/PS3.8-1MO5O-004

Gupta, S.; Muller, J.-P.; Kim, J.-R.; Lin, S.-Y.; van Gasselt, S.; Neukum, G.
Evolution of catastrophic flooding in the circum-Chryse outflow channels from the Mars Express High Resolution Stereo Camera

18:30–18:45; EGU2008-A-08318; IS14 - GM1.1/PS3.8-1MO5O-005

Sowe, M.; Hauber, E.; Jaumann, R.; Neukum, G.
Layered Deposits in Chaotic Terrains on Mars

18:45–19:00; EGU2008-A-02475; IS14 - GM1.1/PS3.8-1MO5O-006

Baioni, D.; Wezel, F.C.
Morphology of a sulphate dome in eastern Tithonium Chasma, Mars: analogies with Earth domes.

19:00 END OF SESSION

IS14 - GM1.1/PS3.8 Planetary Geomorphology (co-organized by GM & PS) – Posters

Convener: Balme, M.
Co-Convener(s): Gupta, S., van Gasselt, S.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0142; EGU2008-A-02423; IS14 - GM1.1/PS3.8-1MO5P-0142

Baioni, D.; Lanci, L.; Wezel, F.C.
Morphotectonic of eastern Tithonium Chasma, Mars.

A0143; EGU2008-A-03574; IS14 - GM1.1/PS3.8-1MO5P-0143

Knapmeyer, M.; Schneider, S; Misun, M; Wählich, M; Hauber, E
An extended global Inventory of Mars Surface Faults

A0144; EGU2008-A-05393; IS14 - GM1.1/PS3.8-1MO5P-0144

Baioni, D.; Lanci, L.; Wezel, F.C.
Morphometric analysis of a sulphate body in east Tithonium Chasma, Mars.

A0145; EGU2008-A-03675; IS14 - GM1.1/PS3.8-1MO5P-0145

Le Deit, L.; Bourgeois, O.; Le Mouélic, S.; Mège, D.; Combe, J.-Ph; **Sotin, C.;** Massé, M.
Light-toned layered deposits on plateaus above Valles Marineris (Mars)

A0146; EGU2008-A-03478; IS14 - GM1.1/PS3.8-1MO5P-0146

Lanz, J. K.; Saric, M. B.
Morphologic analysis of cone structures in Aeolis Planum, Mars

A0147; EGU2008-A-03804; IS14 - GM1.1/PS3.8-1MO5P-0147
Kneissl, T.; Neukum, G.
New investigations of possible volcanic edifices at the Martian north pole – distribution and characteristics

A0148; EGU2008-A-05502; IS14 - GM1.1/PS3.8-1MO5P-0148
Hauber, E.; Kuhn, A.; Brosz, P.; Wählisch, M.; Bleacher, J.; Williams, D.; Greeley, R.
Morphometric analysis and cartographic representation of a volcanic field in Tempe Terra, Mars

A0149; EGU2008-A-10936; IS14 - GM1.1/PS3.8-1MO5P-0149
van Gasselt, S.; Hauber, E.; Dumke, A.; Neukum, G.
Reconstruction of the Development of Complex Mass-Wasting Landforms at the Western Scarp of Olympus Mons, Mars: Indicators for Talus-Derived Landsliding and Post-Emplacement Degradation

A0150; EGU2008-A-12314; IS14 - GM1.1/PS3.8-1MO5P-0150
Balme, M.; Gallagher, C.; Murray, J.; Page, D.; Muller, J-P; Kim, J-R
HiRISE and HRSC studies of the Western Elysium Planitia region, Mars

A0151; EGU2008-A-07631; IS14 - GM1.1/PS3.8-1MO5P-0151
Langhans, M.; Jaumann, R.; Stephan, K.; Brown, R. H.; Buratti, B. J.; Clark, R.; Baines, K. H.; Nicholson, P. D.; Lorenz, R. D.
Analysis of fluvial features at Xanadu-Regio, Titan, observed by Cassini-RADAR and Cassini-VIMS

A0152; EGU2008-A-03567; IS14 - GM1.1/PS3.8-1MO5P-0152
Knapmeyer, M.; Wählisch, M.; Scholten, F.; Oberst, J
A global 3-D anaglyphic view of Mars derived from Mars Laser Altimeter Data

A0153; EGU2008-A-07881; IS14 - GM1.1/PS3.8-1MO5P-0153
Walter, S.H.G.; Michael, G.; Neukum, G.
Interoperable Delivery of Global Planetary Datasets in the Internet

A0154; EGU2008-A-08811; IS14 - GM1.1/PS3.8-1MO5P-0154
Dumke, A.; Spiegel, M.; Schmidt, R.; Neukum, G.
Generation of High-Resolution Digital Terrain Models and Ortho-Image Mosaics of Mars, on the basis of Mars-Express HRSC Data

A0155; EGU2008-A-11457; IS14 - GM1.1/PS3.8-1MO5P-0155
Lin, S-Y.; Muller, J-P; Gupta, S
Mosaicked HRSC DTMs for Mars Geomorphological Analysis of Ares Vallis

GM1.2 Surface processes and tele-connections in the Earth system (co-listed in CL)

Convener: Dadson, S.
Co-Convener(s): Hovius, N., Schrott, L.
Lecture Room 18
Chairperson: N.N.

17:30–17:45; EGU2008-A-02233; GM1.2-1MO5O-001
Graf, H.F.
Teleconnections and surface processes: Non-stationarity and modulating effects (solicited)

17:45–18:00; EGU2008-A-04838; GM1.2-1MO5O-002
Galewsky, J.
Feedbacks between atmospheric moist convection and surface processes in semi-arid regions (solicited)

18:00–18:15; EGU2008-A-05739; GM1.2-1MO5O-003
Aalto, R.
ENSO forcing of sedimentary processes in two tropical fluvial dispersal systems (solicited)

18:15–18:30; EGU2008-A-09904; GM1.2-1MO5O-004
Govers, G.; Vankerkhoven, S.; Tote, C.; Verstraeten, G.; Filiberto, I
Effect of El Niño events on sediment yield in a large coastal basin in Peru-Ecuador

18:30–18:45; EGU2008-A-08116; GM1.2-1MO5O-005
Hilton, R. G.; Galy, A.; Hovius, N.; Chen, M-C.; Hornig, M-J.; Chen, H
Tropical cyclones drive erosion of terrestrial organic carbon from mountains

18:45–19:00; EGU2008-A-12105; GM1.2-1MO5O-006
West, A.J.
Limits to Chemical Weathering and the Climate Stabilizing Feedback (solicited)

19:00 END OF SESSION

GM1.4 Novel applications of terrestrial cosmogenic nuclides in Earth surface science (co-sponsored by EAG)

Convener: Dunai, T.
Co-Convener(s): Stuart, F.
Lecture Room 18
Chairperson: N.N.

15:30–15:45; EGU2008-A-06808; GM1.4-1MO4O-001
Niedermann, S.; Pilz, P.; Goethals, M.; Fenton, C.R.; Kober, F.
Towards an experimental determination of element-specific production rates for cosmogenic ³He, ²¹Ne and ³⁸Ar

15:45–16:00; EGU2008-A-06698; GM1.4-1MO4O-002
Schimmelpfennig, I.; Benedetti, L.; Pik, R.; Burnard, P.; Blard, P.H.; Dunai, T.; Bourlès, D.
In-situ cosmogenic ³⁶Cl production rate calibration from Ca and K in basaltic flows

16:00–16:15; EGU2008-A-08431; GM1.4-1MO4O-003
Vermeesch, P.; Heber, V.; Strasky, S.; Kober, F.; Schaefer, J.; Baur, H.; Schluechter, C.; Wieler, R
Cosmogenic ³He and ²¹Ne measured in artificial quartz targets after one year of exposure in the Swiss Alps

16:15–16:30; EGU2008-A-03999; GM1.4-1MO4O-004
Lilly, K.; **Fabel, D.;** Fink, D.; Lambeck, K.
Three million years of ice sheet history from interior East Antarctica. (solicited)

16:30–16:45; EGU2008-A-04665; GM1.4-1MO4O-005
Ruszkiczay-Rüdiger, Zs.; Dunai, T.; Csillag, G.; Fodor, L.; Bada, G.; Müller, P.
Quaternary deflation in the Western Pannonian Basin, Hungary - landforms dated using in situ produced cosmogenic ¹⁰Be

16:45–17:00; EGU2008-A-03611; GM1.4-1MO4O-006
Lebatard, A.-E.; Bourlès, D. L.; Durringer, Ph.; Jolivet, M.; Braucher, R.; Schuster, M.; Lihoreau, F.; Mackaye, H. T.; Vignaud, P.; Brunet, M.
Cosmogenic nuclide dating of Australopithecus bahrelghazali and Sahelanthropus tchadensis: Plio-Miocene Hominids from Chad

GM1.4 Novel applications of terrestrial cosmogenic nuclides in Earth surface science (co-sponsored by EAG) – Posters

Convener: Dunai, T.

Co-Convener(s): Stuart, F.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0156; EGU2008-A-01990; GM1.4-1MO5P-0156

Hippe, K.; Kober, F.; Baur, H.; Wacker, L.; Wieler, R.

The ETH Zurich in situ ¹⁴C extraction line: A progress report

A0157; EGU2008-A-02656; GM1.4-1MO5P-0157

Goethals, M.M.; Niedermann, S.; Hetzel, R.; Fenton, C.R.
Cosmogenic nuclide intercalibration at the Bishop Tuff, CA, USA

A0158; EGU2008-A-06691; GM1.4-1MO5P-0158

Ammon, K.; Leya, I.; Lavielle, B.; Gilibert, E.; David, J.-C.; Michel, R.

Cross sections for the production of He, Ne, and Ar isotopes by proton induced reactions on iron and nickel

A0159; EGU2008-A-07189; GM1.4-1MO5P-0159

Merchel, S.; Alfimov, V.; Benedetti, L.; Bourlès, D.; Braucher, R.; Mrak, I.; Reitner, J. M.

The potential of historic rockfalls as CRONUS-EU calibration sites: Chlorine-36 data from the Alps

A0160; EGU2008-A-07865; GM1.4-1MO5P-0160

Foeken, J.; Schimmelpfennig, I.; Stuart, F.; Wilcken, K.; Schnabel, C.

Cosmogenic ³He and ³⁶Cl determinations from lava flows from Fogo (14°N) and Stromboli (38°N): Implications for production rates and scaling grids

A0161; EGU2008-A-07941; GM1.4-1MO5P-0161

Williams, A.; Pik, R.; Burnard, P.

Investigations into the altitude dependence of terrestrial cosmogenic nuclide production rates

A0162; EGU2008-A-06167; GM1.4-1MO5P-0162

Fenton, C. R.; Niedermann, S.; Goethals, M.; Schneider, B.
Cosmogenic ³He and ²¹Ne concentrations in olivines and pyroxenes from a Pleistocene basalt flow, western Grand Canyon National Park, Arizona, USA

A0163; EGU2008-A-09624; GM1.4-1MO5P-0163

Stuart, F.M.; Foeken, J.P.; Schneider, B.

Implantation of radiogenic He into olivine and pyroxene phenocrysts: implications for cosmogenic ³He production rate determinations

A0164; EGU2008-A-10100; GM1.4-1MO5P-0164

Schneider, BSH; Stuart, FM; Foeken, JPT; Wijbrans, JR

Determining in situ cosmogenic ³He production rates using basalts from the Canary Islands

A0165; EGU2008-A-04152; GM1.4-1MO5P-0165

Akçar, N.; Ivy-Ochs, S.; Schachner, A.; Yilmaz, I.O.; Altiner, D.; Alfimov, V.; Yavuz, V.; Schlüchter, C.

³⁶Cl Dating of Yenicekale Building Complex in Hittite Capital of Hattusha (Turkey)

A0166; EGU2008-A-02335; GM1.4-1MO5P-0166

Kracht, O.; Abbühl, L.M.; Schlunegger, F.

Complex landscape evolution and transient denudation rates: potentials of an R based modelling approach to facilitate the analysis of cosmogenic nuclide data in complicated geomorphological settings

A0167; EGU2008-A-06914; GM1.4-1MO5P-0167

Vassallo, R.; Pépin, E.; Regard, V.; Carretier, S.; Gayer, E.; Audin, L.; Christophoul, F.; Riquelme, R.; Guyot, J.-L.; Ordonnez, J. J.

Historical and millennial geomorphic evolution of Pacific Central Andes: coupling hydrological and cosmogenic records

A0168; EGU2008-A-07790; GM1.4-1MO5P-0168

Rixhon, G.; Braucher, R.; Siame, L.; Bourlès, D.; Demoulin, A.

Fluvial terrace dating (¹⁰Be) and quaternary incision rates in the Amblève valley (eastern Belgium)

IS15 - GM2.3/GD28/SSP30/TS14 Bridging timescales of landscape evolution in active orogens (co-organized by GM, GD, SSP & TS, co-sponsored by EAG)

Convener: Najman, Y.

Co-Convener(s): Kirstein, L.

Lecture Room 18

Chairperson: N.N.

13:30–13:45; EGU2008-A-11401; IS15 - GM2.3/GD28/SSP30/TS14-1MO3O-001

Willenbring, J.; McElroy, B.

Continental erosion and the gross control of topography over multiple time- and space-scales

13:45–14:00; EGU2008-A-08795; IS15 - GM2.3/GD28/SSP30/TS14-1MO3O-002

von Blankenburg, F.; Norton, K.N.; Willenbring, J.K.; Wittmann, H.

Denudation rate meters in mountain belts: is the future big brush or fine tip? (solicited)

14:00–14:15; EGU2008-A-11157; IS15 - GM2.3/GD28/SSP30/TS14-1MO3O-003

Paquet, F.; Proust, J.N.; Pettinga, J.R.; Barnes, P.M.

Morphostructural evolution of the Pleistocene Hawke Bay forearc domain in New Zealand: influence of tectonics and climate from 1 Ma to 10 ka timescales.

14:15–14:30; EGU2008-A-04728; IS15 - GM2.3/GD28/SSP30/TS14-1MO3O-004

van der Beek, P.; Robert, X.; Perry, C.; Braun, J.; Bernet, M.
Recent Kinematics and long-term Exhumation History of the central Himalaya (Nepal) from numerical Modelling of in-situ and detrital Thermochronology Data (solicited)

14:30–14:45; EGU2008-A-07624; IS15 - GM2.3/GD28/SSP30/TS14-1MO3O-005

Fellin, M.G.; Willett, S.D.; Chen, Y.-G.

Spatial and temporal variations of erosion rates in Taiwan from detrital zircon-fission-track dating

14:45–15:00; EGU2008-A-11967; IS15 - GM2.3/GD28/SSP30/TS14-1MO3O-006

Spiegel, C.; Danisik, M.; Kohn, B.; Belton, D.; Sachsenhofer, R.; Gleadow, A.

Quantifying denudation rates with apatite (U-Th)/He thermochronology – do we need an alpha correction?

15:00 END OF SESSION

IS15 - GM2.3/GD28/SSP30/TS14 Bridging timescales of landscape evolution in active orogens (co-organized by GM, GD, SSP & TS, co-sponsored by EAG) – Posters

Convener: Najman, Y.

Co-Convener(s): Kirstein, L.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0169; EGU2008-A-09211; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0169
Heberer, B; Behrmann, J.H.; Rahn, M.
Tracking the provenance – Assessing sedimentary pathways and upper plate dynamics at the South Central Chile margin

A0170; EGU2008-A-09808; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0170
Uba, C.E.; Kley, J.; Strecker, M.; Schmitt, A.
Timing and propagation rates of the thrust and fold belts of southern Bolivia and its implications for the evolution of the central Andes

A0171; EGU2008-A-06134; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0171
Vanacker, V.; von Blanckenburg, F.; Govers, G.; Kubik, P.W
Quantification of the Transient Behaviour of Rivers draining the Southern Ecuadorian Andes

A0172; EGU2008-A-05082; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0172
Gunnell, Y.; Thouret, J.-C.; Brichau, S.; Carter, A.
A low-temperature thermochronology of denudation, crustal uplift and canyon incision in the Western Cordillera of southern Peru

A0173; EGU2008-A-05421; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0173
Champagnac, J.-D.; Molnar, P.; Yuan, D.; Ge, W.
Neotectonics slip rate at the front of the Qilian Shan, NE Tibetan plateau

A0174; EGU2008-A-04682; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0174
Palumbo, L.; Hetzel, R.; Tao, M.; Li, X
In-situ cosmogenic ¹⁰Be denudation rate variations along active tectonic ranges at the NE edge of the Tibetan Plateau

A0175; EGU2008-A-02583; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0175
Najman, Y.; Surma Basin Team
The Paleogene record of Himalayan erosion, Bengal Basin, Bangladesh: Implications for interactions between tectonics, erosion and marine geochemistry

A0176; EGU2008-A-01844; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0176
Kirstein, L.A.; Carter, A.; Chen, Y-G
Exhumation, sediment routing and the detrital record of orogenesis, Taiwan

A0177; EGU2008-A-05770; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0177
Huang, H.-T.; Hu, J.-C.; Kuo, C.-H.
Estimation of the relative tectonic active rate by stream power erosion model in the Chiayi Area, Taiwan

A0178; EGU2008-A-10605; IS15 -
GM2.3/GD28/SSP30/TS14-1MO5P-0178
Simon-Labric, T.; Teyssier, C.; Cosca, M.; Brocard, G.; van der Beek, P.
U-Th/He dating of a rapid incision denudation event induced by lake overspill, the Skagit River Gorge, Northern North Cascades Range, Washington.

GM4.4 Surface and Subsurface Karst Geomorphology

Convener: De Waele, J.

Co-Convener(s): Plan, L., Filipponi, M.

Lecture Room 7

Chairperson: DE WAELE, J.

8:30–8:45; EGU2008-A-01451; GM4.4-1MO1O-001

Ford, D.C.

From the Plains of Abraham to Dodo Canyon: Remarkable dolomite karst in permafrost in the Mackenzie Mountains, Northwest Territories, Canada

8:45–9:00; EGU2008-A-01157; GM4.4-1MO1O-002

Forti, P.

Genesis and evolution of the caves in the Naica Mine (Chihuahua, Mexico)

9:00–9:15; EGU2008-A-02825; GM4.4-1MO1O-003

Filipponi, M.; Jeannin, P.-Y.

Possibilities and Limits to predict the 3D Geometry of Karst Systems within the Inception Horizon Hypothesis

9:15–9:30; EGU2008-A-10364; GM4.4-1MO1O-004

Plan, L.; Behm, M.; Decker, K.; Wagreich, M.

Influence of glaciation on surface and near surface karst morphology – new field evidence from the Hochschwab Massif (Austria)

9:30–9:45; EGU2008-A-06244; GM4.4-1MO1O-005

Rehrl, C.; Birk, S.; Klimchouk, A.

Speleogenesis in hypogene settings: Development and validation of numerical models by field evidence

9:45–10:00; EGU2008-A-02195; GM4.4-1MO1O-006

De Waele, J.; Forti, P.

Salt Bubbles of Atacama: curious, small and ephemeral morphologies

10:00 END OF SESSION

GM4.4 Surface and Subsurface Karst Geomorphology – Posters

Convener: De Waele, J.

Co-Convener(s): Plan, L., Filipponi, M.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: PLAN, L.

A0179; EGU2008-A-02019; GM4.4-1MO5P-0179

Cucchi, F.; **Furlani, S.;** Zini, L.; Tretiach, M.

Weathering by endolithic lichens on limestone surfaces: a geostatistical approach

A0180; EGU2008-A-09128; GM4.4-1MO5P-0180

Plan, L

Hummocky Karren – a new type of karren

A0181; EGU2008-A-09587; GM4.4-1MO5P-0181

Herrnegger, M.; Haberl, U.; Stanzel, Ph.; Nachtnebel, H.-P.
Identifying subsurface karstic drainage areas with a continuous hydrological model in the Austrian Kalkalpen

A0182; EGU2008-A-11420; GM4.4-1MO5P-0182

Groves, C.; Jiang, Y.; Zhang, G.; Yuan, D.; Kambesis, P.

Karst geomorphology and hydrogeology of the East Mountain Plateau, Yunnan China

A0183; EGU2008-A-06714; GM4.4-1MO5P-0183

Filipponi, M.

The stability of large chambers in karst caves

A0184; EGU2008-A-11895; GM4.4-1MO5P-0184
Herrmann, E.; **Plan, L.**
Does cave type distribution reveal differential uplift in the eastern Northern Calcareous Alps (Austria)?

A0185; EGU2008-A-10567; GM4.4-1MO5P-0185
Tamas, T.; Häuselmann, Ph.; Sahy, D.; Pop, M.
Preliminary results on the geology and evolution of the Iza cave (Rodnei Mountains, N Romania)

A0186; EGU2008-A-11198; GM4.4-1MO5P-0186
Trappe, M.
Classification of clastic cave deposits of the South Franconian Alb (Southern Germany)

A0187; EGU2008-A-07102; GM4.4-1MO5P-0187
Savage, J.; MacCarthy, I.; Higgs, B
Age dating of speleothems in Killavullen Caves, County Cork, Ireland

A0188; EGU2008-A-11935; GM4.4-1MO5P-0188
Garasic, M.
Inverse Karstification Processes in Dinaric Karst (Croatia)

A0189; EGU2008-A-00347; GM4.4-1MO5P-0189
Zurbuchen, L.; Kellenberger, T.
Detection of cave entrances with airborne thermal imaging

A0190; EGU2008-A-11184; GM4.4-1MO5P-0190
TORK, Koray; **GURCAY, Bora**
Interpretation of Karst Landforms by ASTER Data

GM5.2 River meander dynamics (co-listed in HS)

Convener: Hooke, J.
Co-Convener(s): Zolezzi, G., Gautier, E.
Lecture Room 18
Chairperson: HOOKE, J.

8:30–8:45; EGU2008-A-07448; GM5.2-1MO1O-001
Seminara, G.
River meandering: linear versus non linear models (solicited)

8:45–9:00; EGU2008-A-04840; GM5.2-1MO1O-002
Parker, G.; Shimizu, Y.
Framework for a new model of the migration of meandering rivers

9:00–9:15; EGU2008-A-03754; GM5.2-1MO1O-003
Frascati, A.; Lanzoni, S.
Long timescale planform evolution of meandering channels

9:15–9:30; EGU2008-A-10972; GM5.2-1MO1O-004
Michalková, M.; Piégay, H.; Kondolf, G.M.
Longitudinal and Temporal Evolution of the Sacramento River between Red Bluff and Colusa, California (1942-1999)

9:30–9:45; EGU2008-A-04299; GM5.2-1MO1O-005
Gautier, E.; Brunstein, D.; Garcia, C.; Vauchel, Ph.; Fuertes, O.; Guyot, J.L.
Meander dynamics of a tropical river: the Rio Beni (Bolivian Amazonia)

9:45–10:00; EGU2008-A-01378; GM5.2-1MO1O-006
I. Nardi, I. N.; r. Scozzafava, r. S.; s.e. Darby, s.e.D; m. Rinaldi, m. R.; l. Solari, l. S.
Estimation of near-bank shear stresses for modelling bank erosion in a meander bend

10:00 END OF SESSION

GM5.4 Source to sink records of large rivers: the terrestrial mass conveyor (co-listed in SSP)

Convener: Robinson, R.
Co-Convener(s): Bird, M., Bickle, M., Higgitt, D.
Lecture Room 18
Chairperson: N.N.

10:30–10:45; EGU2008-A-10722; GM5.4-1MO2O-001
Milliman, J.D.
Fluvial Discharge to the Global Ocean: The Importance of Large and Small Rivers (solicited)

10:45–11:00; EGU2008-A-11064; GM5.4-1MO2O-002
Gaillardet, J.; Calmels, D.; France-Lanord, C.; Lemarchand, D.; Millot, R.; Vigier, N.
The river geochemical toolbox : application to the Mackenzie River Basin, Canada.

11:00–11:15; EGU2008-A-07910; GM5.4-1MO2O-003
Wittmann, H.; von Blanckenburg, F.; Guyot, J.-L.; Maurice Bourgoin, L.; Kubik, P.W.
Preservation of cosmogenic nuclide signals during floodplain - river interaction in the upper Amazon basin

11:15–11:30; EGU2008-A-06905; GM5.4-1MO2O-004
Tote, C.; Govers, G.; Licciardello, F.
Prediction of sediment fluxes in South America at an intra-continental scale

11:30–11:45; EGU2008-A-07291; GM5.4-1MO2O-005
Moreira-Turcq, P.; Amorim, M.; Bernardes, M.; Bonnet, M.P.; Perez, M.; Seyler, P.; Guyot, J.L.
Floodplain impacts on particulate organic matter transported by the Amazon River

11:45–12:00; EGU2008-A-03406; GM5.4-1MO2O-006
Bird, M.; Robinson, R; Win Oo, N; Maung Aye, M; Lu, X; Higgitt, D; Swe, A; Hlaing Win, S; Sandar Aye, K; Hoey, T
A Preliminary estimate of organic carbon transport by the Ayeyarwady (Irrawaddy) and Thanlwin (Salween) rivers of Myanmar

12:00 END OF SESSION

GM5.4 Source to sink records of large rivers: the terrestrial mass conveyor (co-listed in SSP) – Posters

Convener: Robinson, R.
Co-Convener(s): Bird, M., Bickle, M., Higgitt, D.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0191; EGU2008-A-03698; GM5.4-1MO5P-0191
Steffen, D.; Schlunegger, F.; Preusser, F.
Fluvial terraces and alluvial fans in southern Peru: Do they record climate change?

A0192; EGU2008-A-04874; GM5.4-1MO5P-0192
Nanson, G.C.; Cohen, T.
Alluvial record of Quaternary flow-regime along a large river in central Australia.

A0193; EGU2008-A-06904; GM5.4-1MO5P-0193
Erkens, G.; Cohen, K.M.; Hoek, W.Z.; Koster, E.A.
Quantification of Holocene sediment delivery to the floodplains in the Rhine valley and delta: a record of changing allogenic controls?

A0194; EGU2008-A-08836; GM5.4-1MO5P-0194
Higgitt, D.L.; Lu, X.X.; Zhang, S.R.; Sun, H.G.; Han, J.T.
Trend detection in source to sink dynamics of the Zhujiang (Pearl River), China

A0195; EGU2008-A-08593; GM5.4-1MO5P-0195
Figueiredo, J; **Hoorn, C**; van der Ven, P; Soares, E
Birth of the Amazon River and stages of development: New evidence from the Amazon Fan (Foz do Amazonas, Late Miocene to Present)

A0196; EGU2008-A-06046; GM5.4-1MO5P-0196
Viers, J; Roddaz, R; Filizola, F; Guyot, J-L; Sondag, F; Boaventura, G
Consequences of the Erosion of the Andes on the Amazon Rivers from Nd-Sr isotopic compositions of suspended sediments and implications for marine geochemistry

A0197; EGU2008-A-11061; GM5.4-1MO5P-0197
Zocatelli, R.; Turcq, B.; Bernardes, M.; Moreira-Turcq, P.; Roeser, P.
Characterization of organic sedimentation in an Amazonian floodplain by lignin phenols, Lago Santa Ninha, PA, Brazil.

A0198; EGU2008-A-06853; GM5.4-1MO5P-0198
Brommer, M.B.; Weltje, G.J.; Kettner, A.J.; Trincardi, F.
Source-to-sink analysis of the Northern Adriatic Basin over the past 19.000 years: data-model comparison using a mass balance approach (cancelled)

GM8.1 Past environmental systems and human occupation: links between geoarcheology and geomorphology

Convener: Fouache, E.
Co-Convener(s): Kuzucuoglu, C., Ghilardi, M.
Lecture Room 7
Chairperson: GHILARDI, M.

10:30–10:45; EGU2008-A-04701; GM8.1-1MO2O-001
Chiverrell, R.C.; Foster, G.C.; Harvey, AM
Human impacts and sediment connectivity in the hills-lope/alluvial geomorphic system.

10:45–11:00; EGU2008-A-04189; GM8.1-1MO2O-002
Lubos, C.C.M; Dreibrodt, S.; Friederich, S.; Meller, H.; Ganslmeier, R.; Hellmund, M.; Klammer, M.; Nelle, O.; Grootes, P.M.; Bork, H.-R.
Landscape development around the tell structure of Nieder-röblingen (Sachsen-Anhalt, Germany) reconstructed from soils, colluvial and alluvial sediments as well as from the archaeological record

11:00–11:15; EGU2008-A-03592; GM8.1-1MO2O-003
Subetto, D.A.; Dolukhanov, P.M.; Gerasimov, D.V.; Sapelko, T.V.; Ludikova, A.V.; Kuznetsov, D.D.; Lisitsyn, S.N.; Yushkova, M.A.; Arslanov, Kh.A.; Averichkin, O.B.
Environment and human migrations in the Lake Ladoga area during the Holocene: new palaeolimnological and archaeological data

11:15–11:30; EGU2008-A-07503; GM8.1-1MO2O-004
Ghilardi, M; Bloemendal, J; Jude, R; Kunesch, S; Fouache, E
Magnetic properties of Mid-Holocene sediments from the central part of Thessaloniki Plain, Greece: implications for human impacts

11:30–11:45; EGU2008-A-12194; GM8.1-1MO2O-005
Biró, K.T.; Székely, B.; Bradák, B.; Medzihradsky, Zs.
Environmental and geoarchaeological studies at Vörs-Máriaasszony sziget site, SW Hungary

11:45–12:00; EGU2008-A-12369; GM8.1-1MO2O-006
Gilliland, K.; Simpson, I.A.; Burbidge, C.I.; Sander-son, D.C.W.; Cook, G.; Adderley, W.P.; McKenzie, J.T.; Gunawardhana, P.; Batt, C.; Coningham, R.
Geoarchaeological interpretation of abandoned irrigation networks in the Anuradhapura hinterland, Sri Lanka

12:00 END OF SESSION

GM8.1 Past environmental systems and human occupation: links between geoarcheology and geomorphology – Posters

Convener: Fouache, E.
Co-Convener(s): Kuzucuoglu, C., Ghilardi, M.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 17:30–19:00
Poster Area Hall A
Chairperson: GHILARDI, M.

A0199; EGU2008-A-02661; GM8.1-1MO5P-0199
Dusar, B.; Verstraeten, G.; De Laet, V.; Marinova, E.; Waelkens, M.
Late-Holocene human impact on fluvial systems in a Mediterranean mountain ecosystem

A0200; EGU2008-A-07197; GM8.1-1MO5P-0200
Siart, C.; Eitel, B.; Hecht, S.; Schukraft, G.; Bubenzer, O.
Reconstruction of palaeoenvironmental changes and their impact on Bronze-Age cultures: results from a geoarchaeological research project in the Ida-Mountains, Central Crete

A0201; EGU2008-A-05333; GM8.1-1MO5P-0201
Castanet, C.; Burnouf, J.; Garcin, M.; Cyprien, A.L.; Lamothe, M.; Camerlynck, C.; Carcaud, N.
Societies – fluvial dynamic interactions in the Middle Loire River floodplain during the Middle Ages and the Early Modern Times (Val d’Orléans, France)

A0202; EGU2008-A-10531; GM8.1-1MO5P-0202
Voelkel, J.; Doetterl, S.; Schneider, A.; Leopold, M.; Huerkamp, K.
Development of a spacious (pre- and proto) historic inland dune landscape in Lower Bavaria, Germany

A0203; EGU2008-A-12247; GM8.1-1MO5P-0203
Cordier, S.; Frechen, M.; Naton, H.G.
Geoarchaeology of the Moselle valley : palaeoenvironments and human occupation since the Middle Pleistocene

A0204; EGU2008-A-12378; GM8.1-1MO5P-0204
Kuzucuoglu, C.; Mouralis, D.; Christol, A.; Akköprü, E.; Dogu, A.-F.; Fort, M.; Brunstein, D.; Fontugne, M.; Gouillot, H.; Scaillet, S.; Zorer, H.; Reyss, J.-L.; Lamothe, M.; Kiyak, N.; Gauthier, A.; Guichard, F.
The “ ANOVAN ” Project : Palaeoenvironments, palaeogeography, volcanic events and human societies in the Van lake basin –eastern Turkey- during Upper Pleistocene and Holocene

A0205; EGU2008-A-12377; GM8.1-1MO5P-0205
Christol, A.; Kuzucuoglu, C.; Fort, M.; Dogu, A.-F.; Akköprü, E.; Brunstein, D.; Mouralis, D.; Fontugne, M.; Zorer, H.; Reyss, J.-L.
Morphogenesis, sedimentary records and palaeogeography of the Holocene and Pleistocene Van Lake terraces (Turkey)

A0206; EGU2008-A-10845; GM8.1-1MO5P-0206
Bubenzer, O.; Bolten, A.
Evaluation and combination of new elevation data (ASTER / SRTM) for geomorphological and geoarchaeological questions

A0207; EGU2008-A-12248; GM8.1-1MO5P-0207
Fouache, E.; **Desruelles, S.**; Magny, M.; Bordon, A.; Oberweiler, C.; Coussot, C.; Touchais, G.; Lera, P.; Lézine, A.-M.; Fadin, L.; Roger, R.
Holocene palaeogeographical reconstructions of Lake Maliq (Korça Basin, Albania): a geoarchaeological approach

Tuesday

GM2.1 Tectonic and Climate Controls on Landscape Evolution (co-listed in TS) (including Ralph Alger Bagnold Medal Lecture)

Convener: Ehlers, T.
Co-Convener(s): Herman, F.
Lecture Room 19
Chairperson: N.N.

8:30–8:45; EGU2008-A-08083; GM2.1-1TU10-001

Guest, B; Fakhari, M; Axen, G; Horton, B
Tectonically induced drainage network reorganization, central Zagros

8:45–9:00; EGU2008-A-02647; GM2.1-1TU10-002

Lisker, F; Laeuffer, A.L.; Rossetti, F.
Contrasting Cenozoic landscape development across the western Ross Sea sector of Antarctica resulting from the interplay of tectonics, climate and lithology

9:00–9:15; EGU2008-A-03152; GM2.1-1TU10-003

Wipf, M.; Glasmacher, U.A.; Emmerich, A.; Bechstädt, T.
Exhumation History of Fuerteventura

9:15–9:30; EGU2008-A-06501; GM2.1-1TU10-004

Thiede, R. C.; Ehlers, T. A.
Spatiotemporal Evolution of Denudation across the Himalaya

9:30–9:45; EGU2008-A-08040; GM2.1-1TU10-005

Glotzbach, C.; Reinecker, J.; Danišik, M.; Rahn, M.; Frisch, W.; Spiegel, C.
Exhumation of the Mont Blanc and Gotthard massifs, forced by tectonics or climate?

9:45–10:00; EGU2008-A-09785; GM2.1-1TU10-006

Thomson, S N; Brandon, M T; Reiners, P W; Vasquez, C; Wilson, N J
Glacial control on active mountain development: A southward latitudinal transition from glacial buzzsaw to glacial shield in the Patagonian Andes

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-10428; GM2.1-1TU20-001

Vernon, AJ; van der Beek, PA; Sinclair, HD; Persano, C; Stuart, FM
Mechanisms of late Neogene exhumation of the Alps: Insights from AFT and AHe vertical profiles in the Aar massif (Switzerland) and the Lepontine Alps (Italy)

10:45–11:00; EGU2008-A-08016; GM2.1-1TU20-002

Schildgen, T.; Ehlers, T.; van Soest, M.; Whipp, D.; Whipple, K.; Hodges, K.
Quantifying canyon incision and Andean Plateau surface uplift, southwest Peru: A thermochronometer and numerical modeling approach

11:00–11:15; EGU2008-A-02564; GM2.1-1TU20-003

Kober, F.; Ivy-Ochs, S.; Schlunegger, F.; Zeilinger, G.; Kubik, P.W.; Baur, H.; Wieler, R.
Contrasting denudation rates of bedrock erosion and river sediment – a cosmogenic nuclide approach in northern Chile

11:15–11:30; EGU2008-A-03221; GM2.1-1TU20-004

Delunel, R.; van der Beek, P.; Bourlès, D.; Carcaillet, J.
Correlation between elevation and denudation from in-situ produced ¹⁰Be in stream sediments (French Western Alps): effect of frost-shattering?

11:30–11:45; EGU2008-A-08586; GM2.1-1TU20-005

Norton, K.P.; von Blanckenburg, F.; Kubik, P.W.
Active faulting unexpectedly slows erosion in the highest Swiss Central Alps

11:45–12:00; EGU2008-A-06417; GM2.1-1TU20-006

Mulch, A.; Chamberlain, C.P.; Teyssier, C.; Graham, S.A.
Stable isotope paleoaltimetry: Coupled climate and surface uplift records in orogenic belts

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–14:15; EGU2008-A-12445; GM2.1-1TU30-001

Whipple, K.X.
Landscape Evolution in Active Tectonic Settings: Diagnosing Dynamic Coupling Between Climate and Tectonics (Ralph Alger Bagnold Medal Lecture) (solicited)

14:15–14:30; EGU2008-A-05595; GM2.1-1TU30-002

Braun, J
Couplings between internally-driven tectonic processes and surface erosion

14:30–14:45; EGU2008-A-02684; GM2.1-1TU30-003

Maniatis, G.; Kurfelß, D.; Heidbach, O.; Hampel, A.
Response of normal faults to mass redistribution on Earth's surface due to erosion and sedimentation

14:45–15:00; EGU2008-A-09526; GM2.1-1TU30-004

Lague, D.; Van den Berg, F.; Davy, P.; Kermarrec, J.-J.
Consequences of tectonic advection on relief dynamics

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-05456; GM2.1-1TU40-001

Champagnac, J.-D.; van der Beek, P.; Molnar, P.; Anderson, R.S.; Sue, C.
Flexural isostatic response of the Alps to increased Quaternary erosion: constraints from topography, tilted benchmarks and present-day rock uplift.

15:45–16:00; EGU2008-A-02869; GM2.1-1TU40-002

Bonnet-Matzinger, C.; Burbank, D.
Interactions between drainage pattern and growing folds (Central Otago, New Zealand)

16:00–16:15; EGU2008-A-06363; GM2.1-1TU40-003

Robl, J.; Stüwe, K.; Hergarten, S.
Channel Profiles around Himalayan River Anticlines.

16:15–16:30; EGU2008-A-03353; GM2.1-1TU40-004

Whittaker, A. C.; Allen, P. A.; Whitchurch, A. L.
Where does sediment come from? Characterising the links between catchment erosion and sediment export in tectonically perturbed landscapes

16:30–16:45; EGU2008-A-01147; GM2.1-1TU40-005

Cederbom, C.E.; Schlunegger, F.; Sinclair, H. D.; van der Beek, P.
Late Neogene climatic, tectonic and geodynamic(?) forcing on the European Alps recorded by the erosion history of the North Alpine Foreland Basin

16:45 END OF SESSION

GM2.1 Tectonic and Climate Controls on Landscape Evolution (co-listed in TS) (including Ralph Alger Bag-nold Medal Lecture) – Posters

Convener: Ehlers, T.

Co-Convener(s): Herman, F.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0134; EGU2008-A-01917; GM2.1-1TU5P-0134

Rankenburg, K.

TOPO-EUROPE – A new European Collaborative Research Programme (Overview)

A0135; EGU2008-A-01435; GM2.1-1TU5P-0135

Grobe, R.; Alvarez-Marrón, J.; Glasmacher, U. A.; Menéndez-Duarte, R.

Low-temperature thermochronology, exhumation, and long-term landscape evolution in the western Cantabrian Mountains, NW Spain

A0136; EGU2008-A-01718; GM2.1-1TU5P-0136

Demoulin, A.; Hallot, E.; **Rixhon, G.**

Quaternary river incision versus denudation in the uplifted Ardenne (W Europe)

A0137; EGU2008-A-03757; GM2.1-1TU5P-0137

Wipf, M.; Zeilinger, G.; Seward, D.; Schlunegger, F.

Focused subaerial Erosion during Ridge Subduction:

A0138; EGU2008-A-03874; GM2.1-1TU5P-0138

Callaghan, L.; Dunai, T.; Binnie, S.; Mayle, F

Climate change and its effects on erosion in arid landscapes.

A0139; EGU2008-A-04354; GM2.1-1TU5P-0139

Kovács, G.; Zámolyi, A.; Székely, B.; Papp, S.

Tectonically induced drainage system in the Western Pan-nonian Basin

A0140; EGU2008-A-04833; GM2.1-1TU5P-0140

Gunnell, Y.; Zeyen, H.; Calvet, M.; Carter, A.; Brichau, S. Lithospheric slab breakoff and topographic regrowth of the Eastern Pyrenees: linking surface morphology with subcrustal processes through thermochronology

A0141; EGU2008-A-04888; GM2.1-1TU5P-0141

Podobnikar, T.; Székely, B.

A method for automatic outlining of talus cones from digital elevation data based on sectorial histograms

A0142; EGU2008-A-05962; GM2.1-1TU5P-0142

Lin, J.C.

Sedimentation in the high mountains of Taiwan

A0143; EGU2008-A-06085; GM2.1-1TU5P-0143

Mettier, R.; Schneider, H.; Schlunegger, F.; Rieke-Zapp, D.; Schwab, M.

Identifying mass wasting through the use of SAR intensity images

A0144; EGU2008-A-06399; GM2.1-1TU5P-0144

Robl, J.; Hergarten, S.; Stüwe, K.; Evans, L.

The Drainage System of the European Eastern Alps: Con-straints on Formation and Implications on the Orogenic Evolution

A0145; EGU2008-A-06494; GM2.1-1TU5P-0145

Salcher, B.C.; Wagreich, M.; Faber, R.

Climate and tectonic impacts on the development of two Pleistocene alluvial fans, Vienna Basin, eastern Austria – a numerical modelling approach

A0146; EGU2008-A-06870; GM2.1-1TU5P-0146

Scherler, D.; Bookhagen, B.; Strecker, M. R.

Role of the Winter Westerlies in shaping the western flank of the Tibetan Plateau – new insights from glacier-surface velocities

A0147; EGU2008-A-07098; GM2.1-1TU5P-0147

Corbi, F.; Fubelli, G.; Lucà, F.; Robustelli, G.; De Martini, P. M.; Muto, F.; Scarciglia, F.; Dramis, F.

Tectonic and climate control on quaternary evolution of the north-eastern Sila Massif (Ionian Calabria, Italy)

A0148; EGU2008-A-07374; GM2.1-1TU5P-0148

Bar, O.; Zilberman, E.; Gvirtzman, Z.; Feinstein, S.

Detailed morphostratigraphy analysis as a key to reconstruction of uplift and paleogeography – a case study from the Judea Mountains

A0149; EGU2008-A-07489; GM2.1-1TU5P-0149

Petit, C.; Gunnell, Y.; Gonga-Saholiariliva, N.; Meyer, B.; Séguinot, J.

Conditions for growth of faceted spurs at normal-fault escarpments: insights from numerical modelling

A0150; EGU2008-A-07914; GM2.1-1TU5P-0150

Whitchurch, A.; Allen, P.; Whittaker, A

The coupling between tectonic deformation and surface processes in thrust-related anticlines: The Montsec Thrust, Spanish Pyrenees

A0151; EGU2008-A-08324; GM2.1-1TU5P-0151

Babault, J.; Van Den Driessche, J.; Crave, A.; Teixell, A

Drainage pattern evolution and propagation of incision in response to a late Cenozoic mantle-related uplift in the High Atlas of Morocco

A0152; EGU2008-A-08790; GM2.1-1TU5P-0152

Gaboriau, M.; Boulvais, P.; Bonnet, S.; Boiron, M.-C.; France-Lanord, C.

Hydrothermal quartz: a new tool for stable isotope-based paleoaltimetry in ancient, eroded, orogens?

A0153; EGU2008-A-09255; GM2.1-1TU5P-0153

Abbühl, L.M.; Kracht, O.; Schlunegger, F.; Rieke-Zapp, D.; Aldahan, A.; von Blanckenburg, F.; Kubik, P.W.

Long-time denudation rates affected by episodic precipitation events

A0154; EGU2008-A-09429; GM2.1-1TU5P-0154

Reinecker, J.; Kuhleemann, A.

Timing of orogen-parallel Rhône valley incision, Switzerland

A0155; EGU2008-A-09724; GM2.1-1TU5P-0155

Zeilinger, G.; Strecker, M.; Bookhagen, B.; Tawakholi, S.; Baldellon, E.

Precipitation, focussed erosion and crustal flexural accom-modation in the Eastern Altiplano (Bolivia)

A0156; EGU2008-A-09932; GM2.1-1TU5P-0156

HUYGHE, D.; Mouthereau, F.; Emmaneuil, L.; Castell-tort, S.; Renard, M.

Preliminary constraints on Paleogene temperatures and climate during the growth of the Pyrenees

A0157; EGU2008-A-10294; GM2.1-1TU5P-0157

Della Seta, M.; Pérez Peña, J.V.; Azañón, J.M.; Lupia Palmieri, E.; Azor, A.

Methods to estimate erosion rates in tectonically uplifted areas: examples from Betic Cordillera and Tyrrhenian margin of the Apennines

A0158; EGU2008-A-10596; GM2.1-1TU5P-0158

Breuer, S.; Kilian, R.; Baeza, O.; Steinke, T.

Denudation processes and sediment transport along a 200 km long transect across the superhumid southernmost Andes at 53°S

A0159; EGU2008-A-11027; GM2.1-1TU5P-0159
Rijsdijk, K.F.; Kroon, I.C.; Meijer, T.; Passchier, S.; Van Dijk, T.A.G.; Bunnik, F.; Janse, A.C.
Fluvial depositional response to long term (0.5 ma) tectonic and shorter term (<0.1ma) Base Level Changes: Upper Cenezoic Rhine Meuse system.

A0160; EGU2008-A-11474; GM2.1-1TU5P-0160
Székely, B.; Molnár, G.; Danišik, M.; Kuhlemann, J.; Frisch, W.
A parameter estimation approach in interpreting fission track ages: a case study of Corsica, France

A0161; EGU2008-A-11519; GM2.1-1TU5P-0161
Székely, B.; Frisch, W.; Kuhlemann, J.; Dunkl, I.
Interplay between uplift and tectonic preformation: a Surface Processes Modelling attempt for the Inntal Fault (Eastern Alps)

A0162; EGU2008-A-12434; GM2.1-1TU5P-0162
Doranti, C.; Glasmacher, U.A.; Hackspacher, P.C.; Hadler Neto, J.C.
Temperature, exhumation, and landscape evolution of the Pocos de Caldas alkaline massive region, SE Brazil

A0163; EGU2008-A-12435; GM2.1-1TU5P-0163
Frano, A.O.B.; **Glasmacher, U.A.;** Hackspacher, P.C.; Hadler Neto, J.C.
Low-temperature post-rift evolution of the western South-Atlantic passive continental margin, Brazil -apatite fission-track thermochronology

A0164; EGU2008-A-07805; GM2.1-1TU5P-0164
Korup, O.; Montgomery, D.R.
Glacial defeat of river incision into southeast Tibet?

A0165; EGU2008-A-08469; GM2.1-1TU5P-0165
Osmundsen, P.T. ; Redfield, T.F.; Hendriks, B.H.W.; Henderson, I.; Dehls, J.; Lauknes, T.R.; Fredin, O.; Larsen, Y.; Davidsen, B.; Anda, E.
Normal fault control on alpine landscapes in Norway

A0166; EGU2008-A-12387; GM2.1-1TU5P-0166
Graveleau, F.; Dominguez, S.; Hurtrez, J.E.; Malavieille, J.
Interactions between mountain piedmont deformation, fluvial terraces formation and alluvial fans evolution : Analogue modeling and comparison with north-east Tian-Shan (Xinjiang, China)

A0167; EGU2008-A-10152; GM2.1-1TU5P-0167
Hobley, D.; Cowie, P.; Whittaker, A.; Attal, M.; Tucker, G.; Roberts, G.
Controls on river long profile development and knickzone retreat in response to tectonic perturbation

GM5.6 Remote Sensing of Rivers: Methods, Applications, and Theory (co-listed in HS)

Convener: Marcus, A.
Co-Convener(s): Fonstad, M.
Lecture Room 18
Chairperson: N.N.

8:30–8:45; EGU2008-A-04967; GM5.6-1TU1O-001
Bailly, J.S.; Le Coarer, Y.; Allouis, T.; Stigermark, C.J.; Languille, P.; Adermus, J.
Bathymetry with LiDAR on gravel bed-rivers: Quality and limits (solicited)

8:45–9:00; EGU2008-A-03497; GM5.6-1TU1O-002
Entwistle, NS; Heritage, G.L.; Johnson, K
Cluster detection and development using terrestrial laser scanning (solicited)

9:00–9:15; EGU2008-A-01295; GM5.6-1TU1O-003
Brasington, J.; Vericat, D.; Wheaton, J.; Hodge, R
Reach-scale retrieval of alluvial bed roughness (solicited)

9:15–9:30; EGU2008-A-08943; GM5.6-1TU1O-004
Lane, S.N.; Thomas, R.E.; Widdison, P.E.
Quantification of river channel change using archival digital image analysis (solicited)

9:30–9:45; EGU2008-A-05602; GM5.6-1TU1O-005
Thomas, M.; Delacourt, C.; Davy, P.; Moulin, L.; Lague, D.
Optimal detection and quantification of channel variability along braided river: the Hurunui's case (New Zealand) (solicited)

9:45–10:00; EGU2008-A-00366; GM5.6-1TU1O-006
Legleiter, C.; Roberts, D.
A forward image model for evaluating the utility of passive optical remotely sensed data in river research (solicited)

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–10:45; EGU2008-A-01673; GM5.6-1TU2O-001
Mason, D.; Bates, P.; Dall'Amico, J.
Calibration of uncertain river flood inundation models using remotely sensed water levels (solicited)

10:45–11:00; EGU2008-A-05500; GM5.6-1TU2O-002
Puech, C. ; Bailly, J.S.; Le Coarer, Y.; Feurer, D.
Morphologic segmentation of rivers from satellite high spatial resolution multi-spectral images (solicited)

11:00–11:15; EGU2008-A-01281; GM5.6-1TU2O-003
Bjerklie, D.; Gardiner, N
Remotely sensed estimates of geomorphic and hydraulic characteristics to help elucidate fish evolution in the lower Congo River (solicited) (cancelled)

11:15–11:30; EGU2008-A-01804; GM5.6-1TU2O-004
Salama, S.; Radwan, M
Integrated Applications of Remote Sensing and Hydrodynamic Modeling for Improved Water Quality Monitoring and Prediction of the Nile River (Rosetta Branch) (solicited)

11:30–11:45; EGU2008-A-06219; GM5.6-1TU2O-005
Carbonneau, P.E.; Dugdale, S.; Campbell, D.
Fluvial remote sensing applied to catchment scale water resource management (solicited)

11:45–12:00; EGU2008-A-12220; GM5.6-1TU2O-006
Marcus, W.A.; Fonstad, M.A.
Creating the International Network of River Observatory Scientists (INROS) (solicited)

12:00 END OF SESSION

GM5.6 Remote Sensing of Rivers: Methods, Applications, and Theory (co-listed in HS) – Posters

Convener: Marcus, A.
Co-Convener(s): Fonstad, M.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0168; EGU2008-A-05888; GM5.6-1TU5P-0168
Pain, C F ; Paron, P; Smith, M
Applied geomorphological mapping (AppGeMa): a working group of the International Association of Geomorphologists

- A0169;** EGU2008-A-05891; GM5.6-1TU5P-0169
Clarke, J D A; **Pain, C F**; Gibson, D; Wong, V; Apps, H
Remote sensing of fluvial architecture of the Murray River, southern Australia
- A0170;** EGU2008-A-01164; GM5.6-1TU5P-0170
Marcus, A.; Fonstad, M.
Making remote sensing of rivers accessible for rivers scientists and managers: The remote sensing of rivers on-line tutorial project.
- A0171;** EGU2008-A-06573; GM5.6-1TU5P-0171
Surian, N.; Ziliani, L.
Using aerial photographs to analyse channel changes in large gravel-bed rivers: potential and limitations
- A0172;** EGU2008-A-10834; GM5.6-1TU5P-0172
Luck, M.; Maumenee, N.; Stanford, J.; Kimball, J.; Whited, D.; Chilcote, S.
Physical complexity of salmon-producing rivers of western North America using Landsat and ancillary data
- A0173;** EGU2008-A-06668; GM5.6-1TU5P-0173
Fonstad, M
Hyperscale, three-dimensional structure of the streams of the Edwards Plateau, Texas, by HAB-transformed digital orthophotoquad imagery
- A0174;** EGU2008-A-01475; GM5.6-1TU5P-0174
Gilvear, DJ
Identifying river habitats on small to medium size temperate streams using multi-spectral imagery; opportunities and limitations
- A0175;** EGU2008-A-05971; GM5.6-1TU5P-0175
Rubin, D.M.; Chezard, H.; Barnard, P.L.; Warrick, J.A.; Draut, A.E.
Instant Grainification: Real-Time Grain-Size Analysis from Digital Images in the Field
- A0176;** EGU2008-A-05442; GM5.6-1TU5P-0176
Hilldale, R.C.
Using bathymetric LiDAR and 2-D hydraulic modeling to map riverine aquatic habitat
- A0177;** EGU2008-A-03006; GM5.6-1TU5P-0177
Notebaert, B.; Verstraeten, G.; Poesen, J.; Govers, G.
Identification of fluvial landscape elements from regionally available airborne LIDAR imagery
- A0178;** EGU2008-A-03009; GM5.6-1TU5P-0178
Notebaert, B.; Verstraeten, G.; Poesen, J.; Govers, G.
Quantitative applications of regional scale LIDAR imagery in fluvial geomorphology
- A0179;** EGU2008-A-04926; GM5.6-1TU5P-0179
Cavalli, M.; Mathys, N.; Jacome, A.
Quality and vertical accuracy assessment of airborne LiDAR data: a case study on the Draix basins (French Alps)
- A0180;** EGU2008-A-07313; GM5.6-1TU5P-0180
Vianello, A.; Cavalli, M.; Tarolli, P.; D'Agostino, V.
LiDAR and field surveys for channel morphology analysis
- A0181;** EGU2008-A-08656; GM5.6-1TU5P-0181
Damis, J.; Delenne, C.; **Bailly, J.S.**; Puech, C.
Performances comparison of bathymetry on rivers from various visible high resolution images.
- A0182;** EGU2008-A-03984; GM5.6-1TU5P-0182
Feurer, D.; **Bailly, J.-S.**; Puech, C.
Measuring depth of a clear, shallow, gravel-bed river by through-water photogrammetry with small format cameras and ultra light aircrafts
- A0183;** EGU2008-A-09807; GM5.6-1TU5P-0183
Allouis, T.; **Bailly, J.S.**
On the use of Raman, infra-red, and green waveforms in bathymetric LiDAR for very shallow waters.
- A0184;** EGU2008-A-04267; GM5.6-1TU5P-0184
Kinzel, P.; Wright, C.; Nelson, J.
Mapping a shallow, braided river with the Experimental Advanced Airborne Research LiDAR (EAARL)
- A0185;** EGU2008-A-04298; GM5.6-1TU5P-0185
Millar, D
Using airborne LIDAR bathymetry to map shallow river environments: a successful pilot on the Colorado River
- A0186;** EGU2008-A-01175; GM5.6-1TU5P-0186
Schumann, G.; Pappenberger, F.; Matgen, P.
Estimating uncertainty associated with water stages from a single SAR image using a stepped GLUE approach
- A0187;** EGU2008-A-08138; GM5.6-1TU5P-0187
Tormos, T.; Durrieu, S.; Pascal, K.; Wasson, J.G.
An operational methodology for characterizing land use along river corridor from remote sensing imagery at large scale
- A0188;** EGU2008-A-01351; GM5.6-1TU5P-0188
Bird, S.; Schwab, J.; Hogan, D.
River remote sensing beneath the riparian canopy
- A0189;** EGU2008-A-01056; GM5.6-1TU5P-0189
Kooistra, L.; Sanchez, L.; Wamelink, W.; Schaeppman, M.; Clevers, J.
Assessing and predicting vegetation structure in floodplain ecosystems: assimilation of imaging spectrometer derived variables into dynamic vegetation models
-
- IS70 - GM6.1/HS7.5 Coasts and Estuaries (co-organized by GM & HS)**
Convener: Baas, A.
Co-Convener(s): D'Alpaos, A., Temmerman, S., Savenije, H., Toffolon, M., Rinaldo, A.
Lecture Room 18
Chairperson: D'ALPAOS, A.
- 13:30-13:45;** EGU2008-A-05506; IS70 - GM6.1/HS7.5-1TU30-001
Conley, D.C.
The role of grain size distribution and flow stratification in nearshore sediment transport.
- 13:45-14:00;** EGU2008-A-09473; IS70 - GM6.1/HS7.5-1TU30-002
Dissanayake, D.M.; Roelvink, J.A.
Effect of sediment transport formulations on long-term morphology
- 14:00-14:15;** EGU2008-A-07087; IS70 - GM6.1/HS7.5-1TU30-003
Lo Re, C.; Musumeci, R.E.; Foti, E.
Swash oscillation with highly nonlinear Boussinesq model for breaking waves
- 14:15-14:30;** EGU2008-A-09132; IS70 - GM6.1/HS7.5-1TU30-004
Tambroni, N.; Seminara, G.
Resuspension of sediments in the shoals of Venice Lagoon
- 14:30-14:45;** EGU2008-A-05468; IS70 - GM6.1/HS7.5-1TU30-005
Anthony, E.J.; Ruz, M.H.
A model of aeolian fetch development and beach-to-foredune sand supply on multiple bar-trough (ridge-and-runnel) beaches (solicited)

14:45–15:00; EGU2008-A-00188; IS70 - GM6.1/HS7.5-1TU3O-006

Carrasco, A.R.; Ferreira, Ó.; Matias, A.; Pacheco, A.; Dias, J.A.

Field measurement of sediment transport in a fetch-limited beach

15:00 COFFEE BREAK

Chairperson: RINALDO, A.

15:30–15:45; EGU2008-A-02783; IS70 - GM6.1/HS7.5-1TU4O-001

de Swart, H. E.; Schuttelaars, H. M.

Morphodynamic evolution and stability of multiple tidal inlets, a simple model

15:45–16:00; EGU2008-A-02484; IS70 - GM6.1/HS7.5-1TU4O-002

Albers, T.; von Lieberman, N.

Morphodynamics of Wadden Sea areas - Field measurements and modelling

16:00–16:15; EGU2008-A-05147; IS70 - GM6.1/HS7.5-1TU4O-003

Marani, M.; D'Alpaos, A.; Lanzoni, S.; Carniello, L.; Rinaldo, A.

Multiple Equilibria and Abrupt Transitions in Tidal Eco-Morphodynamics (solicited)

16:15–16:30; EGU2008-A-03974; IS70 - GM6.1/HS7.5-1TU4O-004

Carniello, L.; Defina, A.; D'Alpaos, L.

Morphological evolution of the Venice lagoon: evidence from the past and trend for the future

16:30–16:45; EGU2008-A-02614; IS70 - GM6.1/HS7.5-1TU4O-005

Savenije, H.; Toffolon, M.; Haas, J

Analytical description of tidal dynamics in convergent estuaries

16:45–17:00; EGU2008-A-12110; IS70 - GM6.1/HS7.5-1TU4O-006

Prandle, D

Renewable energy from estuaries : free-stream and impounded barriers

17:00 END OF SESSION

IS70 - GM6.1/HS7.5 Coasts and Estuaries (co-organized by GM & HS) – Posters

Convener: Baas, A.

Co-Convener(s): D'Alpaos, A., Temmerman, S., Savenije, H., Toffolon, M., Rinaldo, A.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Hall A

Chairperson: BAAS, A.

A0190; EGU2008-A-08624; IS70 - GM6.1/HS7.5-1TU5P-0190

Hoffmann, G.; Hijma, M.P.; Cohen, K.M.; Stouthamer, E. Facies associations in the interaction zone of coastal and fluvial sedimentation - Holocene Rhine-Meuse Delta (The Netherlands)

A0191; EGU2008-A-00255; IS70 - GM6.1/HS7.5-1TU5P-0191

Pointeau, R.; Tomlinson, R

Beach volume equilibrium for long-term beach protection strategy and planning - Case study of Burleigh Heads/Tallebudgera Creek and Palm Beach/Currumbin Creek, Gold Coast, Australia.

A0192; EGU2008-A-11237; IS70 - GM6.1/HS7.5-1TU5P-0192

Liao, H.R.; Wang, H.W.; Wang, C.T.; Chen, K.S.

Observing the shoreline change of Taiwan western coast by SAR images from 1996 to 2005

A0193; EGU2008-A-05486; IS70 - GM6.1/HS7.5-1TU5P-0193

Ramos-Pereira, A.; Trindade, J.; Trigo, R.

Beach dynamics in the Portuguese coast: the impact of atmospheric circulation on the two major driving factors (waves and precipitation)

A0194; EGU2008-A-09737; IS70 - GM6.1/HS7.5-1TU5P-0194

Pallottini, E.; Campo, V.; Cappucci, S.; Rossi, L.; La Monica, G.B.; Simeoni, U.; Gabellini, M.

Multitemporal analysis of the beach-dune system of Circeo National Park (Italy)

A0195; EGU2008-A-02199; IS70 - GM6.1/HS7.5-1TU5P-0195

Larroudé, Ph.

2dh non linear methods to simulate long term assessment of Nourishment on sandy beaches

A0196; EGU2008-A-06908; IS70 - GM6.1/HS7.5-1TU5P-0196

Belluco, E.; Venier, C.; Marani, M.

Multitemporal remote-sensing observations of intertidal vegetation spatial distribution

A0197; EGU2008-A-02324; IS70 - GM6.1/HS7.5-1TU5P-0197

Uzaki, K.; Kuriyama, Y

Numerical study of the development of 3D morphodynamic model and an application to an intertidal flat in the Ariake Sea

A0198; EGU2008-A-04021; IS70 - GM6.1/HS7.5-1TU5P-0198

Quartau, R. ; Trenhaile, A. S.; Mitchell, N. C.; Tempera, F. Modeling the origin and development of a volcanic island shelf: Faial Island in the Azores archipelago

A0199; EGU2008-A-07268; IS70 - GM6.1/HS7.5-1TU5P-0199

Venier, C.; D'Alpaos, A.; Marani, M.

Evaluation of the critical shear stress for erosion by use of wind and turbidity observations in a shallow tidal area

A0200; EGU2008-A-01256; IS70 - GM6.1/HS7.5-1TU5P-0200

Khadkikar, A.S.

Anatomy of a macrotidal monsoonal estuary

A0201; EGU2008-A-03975; IS70 - GM6.1/HS7.5-1TU5P-0201

D'Alpaos, A.; Lanzoni, S.; Marani, M.; Rinaldo, A.

Field observations and morphodynamic modeling of spontaneous tidal network formation within a constructed salt marsh

A0202; EGU2008-A-08988; IS70 - GM6.1/HS7.5-1TU5P-0202

Canestrelli, A.; Defina, A.; Lanzoni, S.; D'Alpaos, L.

Long-term evolution and morphodynamic equilibrium of a tidal channel flanked by tidal flats

A0203; EGU2008-A-01430; IS70 - GM6.1/HS7.5-1TU5P-0203

Bormann, H.; Klaassen, K.; Klenke, T.; Liebezeit, G.

Analysis of hydrological processes on a tidal sand bank

A0204; EGU2008-A-07179; IS70 - GM6.1/HS7.5-1TU5P-0204

D'Alpaos, A.; Fagherazzi, S.; **Lanzoni, S.**

Cross-sectional equilibrium configurations of tidal channels: modelling the interplay of morphodynamic and biological processes

A0205; EGU2008-A-05518; IS70 - GM6.1/HS7.5-1TU5P-0205

Van der Wegen, M.; **Wang, Z.B.**; Savenije, H.H.G.; Roelvink, J.A.

Long-term morphodynamic evolution in an embayment using a numerical, process-based approach

A0206; EGU2008-A-07593; IS70 - GM6.1/HS7.5-1TU5P-0206

Graas, S.; **Savenije, H.H.G**

Salt intrusion in the Pungue estuary, Mozambique: effects of sand banks and temporary closing of tidal channels

A0207; EGU2008-A-01678; IS70 - GM6.1/HS7.5-1TU5P-0207

Arndt, S.; **Vanderborght, J-P**; Regnier, P

Phytoplankton growth response to physical forcing in a macrotidal estuary: coupling hydrodynamics, sediment transport and biogeochemistry

A0208; EGU2008-A-07443; IS70 - GM6.1/HS7.5-1TU5P-0208

Vousdoukas, M.I.; Pennucci, G.; Holman, R.A.; Conley, D.C.

Rapid Environmental Assessment in the coastal zone from Small Unmanned Aerial Vehicles (SUAV)

A0209; EGU2008-A-11548; IS70 - GM6.1/HS7.5-1TU5P-0209

Harrison, S.R.; Borrero, J.C.; Black, K.P.

Development of an integrated catchment and receiving water hydrodynamic model for Whaingaroa (Raglan) Harbour, New Zealand for community based land use planning and guidance.

A0210; EGU2008-A-09408; IS70 - GM6.1/HS7.5-1TU5P-0210

Conti, M.; Cappucci, S.; La Monica, G.B.; Rossi, L.; Gabellini, M.

Predicting Submerged Beach sediment dynamics and resulting shoreline evolution

A0211; EGU2008-A-08677; IS70 - GM6.1/HS7.5-1TU5P-0211

Kempe, S.; Abu ghazleh, S.; Hartmann, J.; Jansen, N.

The dramatic drop of the Dead Sea at 0.44 km³/a and its recently (1932-2007) formed terraces

A0212; EGU2008-A-10318; IS70 - GM6.1/HS7.5-1TU5P-0212

Rosser, N. J.; Lim, M.; Norman, E; Petley, D.N.

Exploring variations in and controls upon cliff, platform and coastline geometry.

A0213; EGU2008-A-08006; IS70 - GM6.1/HS7.5-1TU5P-0213

Lim, M.; Rosser, N; Petley, D; Norman, E

The morphological characterisation of coastal cliff behaviour for risk assessment

Wednesday

GM2.4 Geomorphic response to Holocene environmental change: Simplicity or complexity?

Convener: Hoffmann, T.

Co-Convener(s): Lang, A.

Lecture Room 18

Chairperson: N.N.

10:30–10:45; EGU2008-A-00481; GM2.4-1WE2O-001

Erkens, G.

Fluvial terrace formation in the northern Upper Rhine Graben during the last 20,000 years as a result of allogenic controls and autogenic evolution

10:45–11:00; EGU2008-A-03034; GM2.4-1WE2O-002

Ward, P.J.; van Balen, R.T.; Verstraeten, G.; Renssen, H.; Vandenberghe, J.

Holocene and future response of suspended sediment yield to land use and climate change: a case study for the Meuse basin

11:00–11:15; EGU2008-A-01505; GM2.4-1WE2O-003

Thorndycraft, V

The geomorphic response of fluvial systems to Holocene climatic variability and human impact

11:15–11:30; EGU2008-A-03733; GM2.4-1WE2O-004

Chiverrell, RC; Foster, GC

Sediment transmission and storage: the implications for reconstructing landform development.

11:30–11:45; EGU2008-A-11051; GM2.4-1WE2O-005

Karsenberg, D.; Bridge, J.S.

Complex behaviour of a modelled fluvial system under Holocene environmental change

11:45–12:00; EGU2008-A-06213; GM2.4-1WE2O-006

Preston, N

Multiple occurrence regional landslide events: a complex and simple response to large scale land use change

12:00 END OF SESSION

GM2.4 Geomorphic response to Holocene environmental change: Simplicity or complexity? – Posters

Convener: Hoffmann, T.

Co-Convener(s): Lang, A.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0078; EGU2008-A-00507; GM2.4-1WE5P-0078

Trimble, S.

Urbanization, channel modification and channel instability in Borrego Canyon Wash, Orange County, CA.

A0079; EGU2008-A-11417; GM2.4-1WE5P-0079

Brown, A

Complexity in Late-Holocene Accelerated alluviation: A Comparison of Two Small Catchments in the U.K. (cancelled)

A0080; EGU2008-A-07388; GM2.4-1WE5P-0080

Schwanghart, W.; Schütt, B.

Holocene climate and landscape evolution in central Mongolia

A0081; EGU2008-A-11793; GM2.4-1WE5P-0081

Lippert, F.; Burggraaff, P.; Dikau, R.

On-slope sediment buffers and complex system response to the introduction of agriculture in a meso-scale catchment in Germany.

A0082; EGU2008-A-11610; GM2.4-1WE5P-0082

Bullard, T. F.

Late Holocene alluvial history and geomorphic evolution of a semi-arid watershed complicated by contrasting bedrock lithologies, northwest New Mexico, USA

A0083; EGU2008-A-03002; GM2.4-1WE5P-0083

Notebaert, B.; Verstraeten, G.

Variations in Holocene alluvial sediment storage for contrasting environments in Belgium

A0084; EGU2008-A-07146; GM2.4-1WE5P-0084

Strähl, S. C.; Burga, C. A.; Kuhn, N.J.

Monitoring environmental changes of the timber line and timber line ecotone in the swiss alps

A0085; EGU2008-A-09311; GM2.4-1WE5P-0085

Poppe, U.; Kuhn, N.

Long term and short term carbon storage in soils: simplicity or complexity?

A0086; EGU2008-A-08931; GM2.4-1WE5P-0086

Kuhn, N.J.

Environmental transition in badlands: an analogue model for the impact of climate change on geomorphic systems?

A0087; EGU2008-A-09351; GM2.4-1WE5P-0087

Hikel, H.; **Kuhn, N.**

An experiment on natural rehabilitation of floodplain vegetation

A0088; EGU2008-A-10741; GM2.4-1WE5P-0088

Krautblatter, M.; **Schaedler, W.;** Keller, D.; Moser, M.

Revealing Caine's energy concept to characterise sediment flux in alpine geosystems: problems and perspectives reanalysed by a one-decade record of rockfalls, soil slips, earthflows and soil creep in two highly active catchments (Reintal and Lahnenwiesgraben, German Alps)

A0089; EGU2008-A-09315; GM2.4-1WE5P-0089

Kimura, M.; **Hoffmann, T.**

Hillslope-channel coupling in a landslide dominated catchment (Nakatsu, Japan): simplicity or complexity?

GM2.7 To what extent is landscape evolution governed by inherited structures?

Convener: Carter, A.

Co-Convener(s): Gallagher, K., Brown, R.

Lecture Room 18

Chairperson: N.N.

8:30–8:45; EGU2008-A-01896; GM2.7-1WE1O-001

Gunnell, Y.; Harbor, D.

Structural underprint, tectonic overprint and drainage integration – do escarpments at passive margins persist or reform? (solicited)

8:45–9:00; EGU2008-A-07417; GM2.7-1WE1O-002

Redfield, T. F.; Osmundsen, P. T.

The Tjellefonna fault system of north Western Norway: linking late-Caledonian extension, post-Caledonian normal faulting, and Tertiary rock column uplift with the great landslide/tsunami event of 1756.

9:00–9:15; EGU2008-A-11855; GM2.7-1WE1O-003

Ventura, B.; Lisker, F.

Tectonic control on long-term landscape development: the example of the Elbe Zone in the northern Bohemian Massif (Germany)

9:15–9:30; EGU2008-A-07036; GM2.7-1WE1O-004

Densmore, A.; Hetzel, R.; Krugh, W.; Seward, D.; Ivy-Ochs, S.

The role of tectonic inheritance in simple sediment routing systems (solicited)

9:30–9:45; EGU2008-A-07696; GM2.7-1WE1O-005

Landgraf, A. ; Zielke, O.; Arrowsmith, R.; Ballato, P.; Strecker, M.; Friedrich, A.

Can numerical fault-slip modeling help differentiate simple landscapes from composite landscapes that have been affected by changes in tectonic conditions? Insights from the south-central Alborz mountains, Iran

9:45–10:00; EGU2008-A-05057; GM2.7-1WE1O-006

Gallagher, K.; Stephenson, J.; **Leighton, C.**

Quantifying differential erosion across ancient structures using 3D Bayesian Partition Modelling

10:00 END OF SESSION

GM2.7 To what extent is landscape evolution governed by inherited structures? – Posters

Convener: Carter, A.

Co-Convener(s): Gallagher, K., Brown, R.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 17:30–19:00

Poster Area Hall A

Chairperson: N.N.

A0090; EGU2008-A-11358; GM2.7-1WE5P-0090

Wilson, R.; Japsen, P.; Peulvast, J-P.; Bonow, J.; McCaffrey, K.; Chalmers, J.; Green, P.

Structure and geomorphology of Mesozoic and Cenozoic landscapes of South Greenland: uplift, erosion and basement reactivation

A0091; EGU2008-A-11566; GM2.7-1WE5P-0091

Székely, B.; Molnár, G.

Do the post-Miocene volcanic features really mark a single paleoaltitude in the Transdanubian Range (Pannonian basin)?

A0092; EGU2008-A-07173; GM2.7-1WE5P-0092

Bermúdez-Cella, M.; van der Beek, P.; Bernet, M.

Fission-track thermochronological evidence for km-scale vertical offsets across the Boconó strike-slip fault, central Venezuelan Andes

A0093; EGU2008-A-05631; GM2.7-1WE5P-0093

Bata, T.; Székely, B.; Karátson, D.

Determination of morphometric parameters of scoria cones in San Francisco Volcanic Field (USA, Arizona)

A0094; EGU2008-A-00003; GM2.7-1WE5P-0094

Timár, G.; Pišút, P.

Changes of the sinuosity of the Morava River (western Slovakia) and their neotectonic origin

A0095; EGU2008-A-11781; GM2.7-1WE5P-0095

Reinhardt, L.; Ellis, M

The primacy of process over structure in landform evolution (cancelled)

A0096; EGU2008-A-01399; GM2.7-1WE5P-0096

Carter, A

How well do we understand the role of ancient sutures in landscape development? An example from Thailand.

A0097; EGU2008-A-00463; GM2.7-1WE5P-0097
Ebert, K.
Pre-Quaternary landforms in northern Sweden

GM6.2 Seafloor expression of tectonic and geomorphic processes (co-listed in GD, SSP & TS)

Convener: Hillier, J.
Co-Convener(s): Mitchell, N., Mulder, T., Maia, M.
Lecture Room 18
Chairperson: MITCHELL, N & HILLIER, J

13:30–13:45; EGU2008-A-11190; GM6.2-1WE3O-001
Lajeunesse, P.; St-Onge, G.
Geomorphology of arcuate iceberg scours on the Hudson Bay seafloor produced during the final drainage of Lake Agassiz-Ojibway

13:45–14:00; EGU2008-A-05973; GM6.2-1WE3O-002
Hill, P. J.; De Deckker, P.; von der Borch, C. C.; Murray-Wallace, C. V.
The ancient Murray River on the Lacepede Shelf, South Australia: Late Quaternary migrations of a major river outlet across a broad Miocene carbonate platform

14:00–14:15; EGU2008-A-06622; GM6.2-1WE3O-003
Lo Iacono, C.; Gràcia, E.; Diez, S.; Vizcaino, A.; Bartolomé, R.; Dañobeitia, J.J.; Terrinha, P.; Zitellini, N.
Seafloor and sub-seafloor characters of mass wasting processes in the Gulf of Cadiz

14:15–14:30; EGU2008-A-04283; GM6.2-1WE3O-004
Vanneste, M.; Harbitz, C.B.; De Blasio, F.V.; Glimsdal, S.; Winkelmann, D.; Mienert, J.; Elverhøi, A.
The Hinlopen-Yermak Landslide, Arctic Ocean - Geomorphology, Landslide Dynamics and Tsunami Simulations

14:30–14:45; EGU2008-A-11225; GM6.2-1WE3O-005
Winkelmann, D.
Tectonic control on intra-basin subsidence within the Sophia Basin, Arctic Ocean

14:45–15:00; EGU2008-A-08636; GM6.2-1WE3O-006
Bartolome, R.; Gràcia, E.; Stich, D.; Klaeschen, D.; Martínez, S.; Terrinha, P.; Dañobeitia, J.J.; Zitellini, N.; The SWIM working group
Seismic evidence of active strike-slip faulting in the Horse-shoe Abyssal Plain (SW Iberian margin)

15:00 COFFEE BREAK

Chairperson: HILLIER, J & MAIA, M

15:30–15:45; EGU2008-A-09826; GM6.2-1WE4O-001
Tappin, D. R.
Landslides and mass wasting processes on the Sumatra convergent margin imaged on multibeam bathymetry

15:45–16:00; EGU2008-A-04178; GM6.2-1WE4O-002
Kukowski, N.; Hoth, S.; Norabuena, E.
Seafloor morphology and wedge mechanics along submarine the Peruvian forearc: insights from morphometry and critical taper analysis

16:00–16:15; EGU2008-A-00560; GM6.2-1WE4O-003
Morgan, E.C.; McAdoo, B.G.; Baise, L.G.
Quantitative geomorphology associated with large subduction zone ruptures (solicited)

16:15–16:30; EGU2008-A-05219; GM6.2-1WE4O-004
Kalnins, L. M.; Watts, A. B.
Seafloor topography, isostatic compensation, and volcanism in the western Pacific Ocean

16:30–16:45; EGU2008-A-11597; GM6.2-1WE4O-005
Whittaker, J.M.; Müller, R.D.
The origin of seafloor roughness

16:45–17:00; EGU2008-A-05677; GM6.2-1WE4O-006
Maia, M.; the PLURIEL Team
Evolution of the Saint Paul-Amsterdam Plateau in the last 10 m.y.

17:00 END OF SESSION

GM6.2 Seafloor expression of tectonic and geomorphic processes (co-listed in GD, SSP & TS) – Posters

Convener: Hillier, J.
Co-Convener(s): Mitchell, N., Mulder, T., Maia, M.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Hall A
Chairperson: HILLIER, J & MAIA, M

A0098; EGU2008-A-07740; GM6.2-1WE5P-0098
Fournier, M.; Chamot-Rooke, N.; Petit, C.; Patriat, P.; Huchon, P.; Fabbri, O.; Maillot, B.
Kinematic evolution of the Arabia-India-Somalia triple junction since 20 Ma from new magnetic data

A0099; EGU2008-A-04854; GM6.2-1WE5P-0099
Kim, S.-S.; Wessel, P.
Detecting seamounts in the satellite-derived vertical gravity gradient field by nonlinear inversion

A0100; EGU2008-A-04229; GM6.2-1WE5P-0100
Hillier, J.
Does hypsometry necessarily invalidate the cooling-plate model?

A0101; EGU2008-A-04035; GM6.2-1WE5P-0101
Sparkes, R.; Tilmann, F.; Hillier, J.; Hovius, N.; Jeffery, M.
Topographic controls on the rupture area of great subduction earthquakes

A0102; EGU2008-A-06783; GM6.2-1WE5P-0102
Gutscher, M.A.; Dominguez, S.; Leroy, P.; Mulder, T.; Luis, J.; Terrinha, P.
Active tectonics of the Gulf of Cadiz accretionary wedge: multibeam bathymetry and analog modeling

A0103; EGU2008-A-06146; GM6.2-1WE5P-0103
Mouchot, N.; Lallemand, S.; Loncke, L.; Leturmy, P.; Mahieux, G.; Chanier, F.; Ellouz, N.
Vertical movements and recent sedimentary processes on the Makran accretionary prism off Pakistan

A0104; EGU2008-A-03007; GM6.2-1WE5P-0104
Maystrenko, Y.P.; Scheck-Wenderoth, M.
Link between the deep structure of the Norwegian continental margin and the location of the Storegga Slide, based on 3D gravity and thermal modelling

A0105; EGU2008-A-02060; GM6.2-1WE5P-0105
Le Bas, T. P.; Masson, D. G.; Grevemeyer, I.; Weinrebe, W.
Identification of major flank collapses around the Cape Verde Islands and associated tectonic processes

A0106; EGU2008-A-03854; GM6.2-1WE5P-0106
Völker, D.; Weinrebe, W.; **Behrmann, J.**
Mass wasting-related Morphology of the Southern Central Chilean continental Margin - quantitative Comparison with other active Margins

A0107; EGU2008-A-11398; GM6.2-1WE5P-0107
Winkelmann, D.; Stein, R.
The Hinlopen/Yermak Megaslide – seafloor expression of a giant multi-stage submarine slide

A0108; EGU2008-A-09955; GM6.2-1WE5P-0108
Masclé, J.; Loubrieu, B.; Dupré, S.
Multi-scale swath mapping of the Mediterranean Sea

A0109; EGU2008-A-10750; GM6.2-1WE5P-0109
Valadares, V.; Terrinha, P.; Duarte, J. C.; Gràcia, E.;
Zitellini, N.; Gutscher, M. A.; Rosas, F.; Matias, L. M.
Geomorphologic domains of the Gulf of Cadiz from swath
multibeam bathymetry

A0110; EGU2008-A-06872; GM6.2-1WE5P-0110
Taramelli, A.; Sorichetta, A.; Seeber, L.; Aiello, I.;
Melelli, L.
A quantitative geomorphic analysis of the Monterey Canyon
System

A0111; EGU2008-A-00577; GM6.2-1WE5P-0111
Le Dantec, N.; Driscoll, N. W.; Babcock, J.; Hogarth, L. J.
Lithologic control on canyon morphology

A0112; EGU2008-A-01464; GM6.2-1WE5P-0112
Weiwei, Ding; Jiabiao, Li; Jun, Li; Mingbi, Li
Morphotectonic, seismic characteristics and development of
the Off Pearl River Mouth Canyon, North South China Sea
margin

A0113; EGU2008-A-00890; GM6.2-1WE5P-0113
Mitchell, N.C.; Huthnance, J.M.
Oceanographic currents and the convexity of the uppermost
continental slope

A0114; EGU2008-A-00887; GM6.2-1WE5P-0114
Mitchell, N.C.; Ligi, M.; Redini, F.; Bonatti, E.; Rutter, E.
Submarine salt glaciers in the central Red Sea

A0115; EGU2008-A-08275; GM6.2-1WE5P-0115
Van Landeghem, K.; Wheeler, A.J.; **Mitchell, N.C.**
Sediment waves in the Irish Sea: reconstructing the (palaeo-)
hydrodynamic environment.

A0116; EGU2008-A-10430; GM6.2-1WE5P-0116
Huuse, M.; Andresen, K.; Clausen, L.; Seidler, L.; Tirs-
gaard, H.; Schødt, N.H.
Seismic imaging of past and present fluid flow from reservoir
to surface offshore West Africa

A0117; EGU2008-A-04097; GM6.2-1WE5P-0117
Magalhaes, V.; Buffett, B.; Archer, D.; Pinheiro, L.
Gas Hydrate Stability in the Gulf of Cadiz, Potential and
Evolution

A0118; EGU2008-A-06078; GM6.2-1WE5P-0118
Shakirov, RB
Methane distribution regularities in the marine sediments
corresponding to the sea floor morphology along the N-S
transect across the Sea of Okhotsk

A0119; EGU2008-A-06941; GM6.2-1WE5P-0119
González, F.J.; TASYO Team
Ferromanganese nodules in the Gulf of Cadiz: Geochemical
evidences from deep-seated fluids migration

GM7.1 Aeolian Landforms and Processes

Convener: Baas, A.
Co-Convener(s): Claudin, P., Wiggs, G.
Lecture Room 19
Chairperson: CLAUDIN, P.

15:30–15:45; EGU2008-A-06871; GM7.1-1WE4O-001
Hesse, R.
Do swarms of migrating barchan dunes record paleoenvi-
ronmental changes? An example from the coastal desert of
southern Peru.

15:45–16:00; EGU2008-A-02011; GM7.1-1WE4O-002
Andreotti, B.; Fourrière, A.; Ould-Kaddour, F.; Mur-
ray, A.B.; Claudin, P.
Size of giant dunes limited by the depth of the atmospheric
boundary layer

16:00–16:15; EGU2008-A-05614; GM7.1-1WE4O-003
Narteau, C.; Rozier, O.; Zhang, D.
Dune morphologies in a lattice gas cellular automaton model
for sediment transport

16:15–16:30; EGU2008-A-05745; GM7.1-1WE4O-004
Stout, J.; Stockton, P.
A new flat-plate saltation sensor for studies in aeolian
research

16:30–16:45; EGU2008-A-00193; GM7.1-1WE4O-005
Schönfeldt, H.-J.
Turbulence and Aeolian sand transport

16:45–17:00; EGU2008-A-03708; GM7.1-1WE4O-006
Baas, A.C.W
A New Model of Event-Driven Aeolian Sand Transport by
Boundary Layer Turbulence

17:00 END OF SESSION

GM7.1 Aeolian Landforms and Processes – Posters

Convener: Baas, A.
Co-Convener(s): Claudin, P., Wiggs, G.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Hall A
Chairperson: WIGGS, G.

A0120; EGU2008-A-08455; GM7.1-1WE5P-0120
Mint Babah, H.; Louge, M.; Valance, A.; Dupont, P.; Ould
El Moctar, A.
Dielectric stratigraphy of density and humidity at a barchan
sand dune

A0121; EGU2008-A-11757; GM7.1-1WE5P-0121
Wiggs, G
The non-linear response of aeolian sand dunes to changing
climatic conditions and vegetation cover

A0122; EGU2008-A-00774; GM7.1-1WE5P-0122
Nield, J.M.; Baas, A.C.W
Modelling vegetated dune field dynamics

A0123; EGU2008-A-10675; GM7.1-1WE5P-0123
Terhorst, B.
Loess-/Paleosol Sequences of the Middle and Upper Pleis-
tocene in Upper Austria (cancelled)

A0124; EGU2008-A-01689; GM7.1-1WE5P-0124
Weaver, C; **Wiggs, G**
Turbulent flow and sand dune dynamics: identifying controls
on aeolian sediment transport.

A0125; EGU2008-A-10360; GM7.1-1WE5P-0125
Almeida, M.; Andrade Jr., J.; **Parteli, E.;** Herrmann, H.
Aeolian saltation layer

A0126; EGU2008-A-02012; GM7.1-1WE5P-0126
Ricou, O.; **Claudin, P.;** Andreotti, B.
Recirculation bubbles behind dunes

A0127; EGU2008-A-00375; GM7.1-1WE5P-0127
Parteli, E.; Durán, O.; Tsoar, H.; Schwämmle, V.; Her-
rmann, H.
Morphology of aeolian seif dunes

A0128; EGU2008-A-08610; GM7.1-1WE5P-0128
Dreano, J.; Cassar, C.; Valance, A.; Lague, D.
Dynamics of sand deposits in a flume

A0129; EGU2008-A-11795; GM7.1-1WE5P-0129
van de Water, W.; Snouck, D
Blowing in the wind: aeolian patterns

A0130; EGU2008-A-12020; GM7.1-1WE5P-0130
Nishimori, H.; Katsuki, A.; Sakamoto, H.
Coupled ODEs Model for the Collision Process of Barchans

A0131; EGU2008-A-11770; GM7.1-1WE5P-0131
Weaver, C; **Wiggs, G**
Sweeping up sand: coherent flow structures and sediment entrainment

IS18 - GM7.2/AS4.07/CL34 Aeolian Dust: initiator, player, and recorder of environmental change (co-organised by GM, AS & CL)

Convener: Stuut, J.
Co-Convener(s): Knippertz, P., Baas, A.
Lecture Room 19
Chairperson: BAAS, ANDREAS

8:30–8:45; EGU2008-A-01411; IS18 -
GM7.2/AS4.07/CL34-1WE1O-001
Bullard, J.; Baddock, M
Characterisation of sub-basin scale dust sources (solicited)

8:45–9:00; EGU2008-A-10132; IS18 -
GM7.2/AS4.07/CL34-1WE1O-002
Kavouras, IK; **Etyemezian, VE;** DuBois, DD; Xu, JX;
Pitchford, MP
Sources of Atmospheric Dust in Class I areas of the Western U.S.

9:00–9:15; EGU2008-A-04531; IS18 -
GM7.2/AS4.07/CL34-1WE1O-003
Schepanski, K.; Tegen, I.; Heinold, B.; Bönisch, G.;
Laurent, B.; Macke, A.
Meteorological processes forcing Saharan dust emissions inferred from MSG-SEVIRI observations of sub-daily dust source activation

9:15–9:30; EGU2008-A-11858; IS18 -
GM7.2/AS4.07/CL34-1WE1O-004
Drake, N.A.; Handley, R.; Oloingsigh, T.; Brooks, N.;
Bryant, R.
Identifying Saharan dust sources using remote sensing: a comparison of TOMS AI, Meteosat IDDI and a new MODIS Dust Index (solicited)

9:30–9:45; EGU2008-A-11193; IS18 -
GM7.2/AS4.07/CL34-1WE1O-005
Kalashnikova, O.; Kahn, R.; Garay, M; Zhang, J.; Reid, J.
Mineral dust transport characterization over the Atlantic from combined satellite aerosol retrievals.

9:45–10:00; EGU2008-A-06165; IS18 -
GM7.2/AS4.07/CL34-1WE1O-006
Wiacek, A.; Peter, Th
Mineral dust and cirrus cloud formation: an integrated perspective using satellite observations and trajectory modeling

10:00 COFFEE BREAK

Chairperson: KNIPPERTZ, PETER

10:30–10:45; EGU2008-A-07348; IS18 -
GM7.2/AS4.07/CL34-1WE2O-001
Tegen, I.; Heinold, B.; Schepanski, K.; Laurent, B.; Rein-
fried, F.
Regional Modelling of Saharan Dust Aerosol in the Frame-
work of the German SAMUM project (solicited)

10:45–11:00; EGU2008-A-10534; IS18 -
GM7.2/AS4.07/CL34-1WE2O-002
Miller, R.
Transient response to aerosol radiative forcing and implica-
tions for hurricanes.

11:00–11:15; EGU2008-A-04059; IS18 -
GM7.2/AS4.07/CL34-1WE2O-003
Cavazos-Guerra, C.; Todd, M.C.; BouKaram, D.; Fla-
mant, C.; Washington, R
Evaluation of the mechanisms of emission and impact in
the radiative forcing in the Sahara Desert using a Regional
Climate Model

11:15–11:30; EGU2008-A-06495; IS18 -
GM7.2/AS4.07/CL34-1WE2O-004
McConnell, C.; Highwood, E.; Formenti, P.; Harrison, M.
Variations in optical and microphysical properties of Saharan
mineral dust from the DODO aircraft campaigns

11:30–11:45; EGU2008-A-04597; IS18 -
GM7.2/AS4.07/CL34-1WE2O-005
BOU KARAM, D.; Flamant, C; Knippertz, P; Reitebuch, O;
Pelon, J; Chong, M; Dabas, A
A newly identified mechanism for dust emissions over the
Sahel associated with the West African Monsoon intertropical
discontinuity region

11:45–12:00; EGU2008-A-09528; IS18 -
GM7.2/AS4.07/CL34-1WE2O-006
Evan, A.; Heidinger, A
On the relationship between West African dust outbreaks
and Atlantic hurricane activity

12:00 LUNCH BREAK

Chairperson: STUUT, JAN-BEREND

13:30–13:45; EGU2008-A-08166; IS18 -
GM7.2/AS4.07/CL34-1WE3O-001
Zender, C.; Flanner, M.; Randerson, J.; Mahowald, N.;
Rasch, P.
Dust-Snow/Ice Interactions: A Glacial Cycle Modulator and
Trigger? (solicited)

13:45–14:00; EGU2008-A-12334; IS18 -
GM7.2/AS4.07/CL34-1WE3O-002
Maher, B.A.; Pugh, R.; Hillenbrand, C.D.; McCave, N.;
Kuhn, G.
A Quaternary record of aeolian dust in the Scotia Sea?

14:00–14:15; EGU2008-A-11763; IS18 -
GM7.2/AS4.07/CL34-1WE3O-003
Ramos, A. G; Cuevas, E.; **Perez, C.;** Baldasano, J.M.;
Coca, J.; Redondo, A.; Alonso-Perez, S.; Bustos, J.J.;
Nickovic, S.
Saharan Dust and Bloom of Diazotrophic Cyanobacteria in
the NW African Upwelling

14:15–14:30; EGU2008-A-01229; IS18 -
GM7.2/AS4.07/CL34-1WE3O-004
Gaiero, D.; Gassó, S; Chemale, F
Tracing dust sources and transport mechanisms in Southern
South America using geochemical, remote sensing and
ground observation methods

14:30–14:45; EGU2008-A-11402; IS18 -
GM7.2/AS4.07/CL34-1WE3O-005
Engelstaedter, S.; Mahowald, N
Toward the interpretation of geological dust records: Links
between surface wind speed and particle size distribution in
the atmospheric column

14:45–15:00; EGU2008-A-07936; IS18 - GM7.2/AS4.07/CL34-1WE3O-006
DeDecker, P.
 Preliminary findings on the geochemical and microbiological fingerprinting of Australian aeolian dust: (solicited)

15:00 END OF SESSION

IS18 - GM7.2/AS4.07/CL34 Aeolian Dust: initiator, player, and recorder of environmental change (co-organised by GM, AS & CL) – Posters

Convener: Stuut, J.
 Co-Convener(s): Knippertz, P., Baas, A.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
 Poster Area Hall A
 Chairperson: BAAS-KNIPPERTZ-STUUT

A0132; EGU2008-A-07182; IS18 - GM7.2/AS4.07/CL34-1WE5P-0132
Pasqui, M.; Bottai, L.; Busillo, C.; Calastrini, F.; Gualtieri, G.; Guarnieri, F.; Taramelli, A.; Small, C.; Martinelli, M.
 Dust sandstorm dynamics analysis in Northern China by means of atmospheric, emission, dispersion modeling

A0133; EGU2008-A-09042; IS18 - GM7.2/AS4.07/CL34-1WE5P-0133
Heinold, B.; Tegen, I.; Laurent, B.; Schepanski, K.
 Regional Modelling of Saharan Dust: Dust radiative Effects and Feedbacks on Boundary Layer Dynamics

A0134; EGU2008-A-03507; IS18 - GM7.2/AS4.07/CL34-1WE5P-0134
Haustein, K.; Pérez, C.; Baldasano, J. M.; Müller, D.; Tesche, M.; Schladitz, A.; Freudenthaler, V.; Heese, B.; Esselborn, M.; Weinzierl, B.; THE DREAM SAMUM TEAM
 Performance of Dream Dust Model during the Samum 2006 Field Campaign

A0135; EGU2008-A-11377; IS18 - GM7.2/AS4.07/CL34-1WE5P-0135
Wu, H.; McConnell, J.; O'Neill, N
 Mineral Dust Emission and Transport : Observation and Modeling

A0136; EGU2008-A-05620; IS18 - GM7.2/AS4.07/CL34-1WE5P-0136
Kallos, G.; Spyrou, C.; Astitha, M.; Mitsakou, C.; Solomos, S.; Kushta, I.; Mavromatidis, E.
 Recent SKIRON dust model development and future plans

A0137; EGU2008-A-11469; IS18 - GM7.2/AS4.07/CL34-1WE5P-0137
Huneus, N.; Balkanski, Y.; Schulz, M.; Morcrette, J.-J.
 Validation of the dust cycle within the global model in the framework of GEMS

A0138; EGU2008-A-07085; IS18 - GM7.2/AS4.07/CL34-1WE5P-0138
Woodward, S
 Interactions between dust and climate in a GCM

A0139; EGU2008-A-07975; IS18 - GM7.2/AS4.07/CL34-1WE5P-0139
Kazil, J.; Lohmann, U.; Cooper, W. A.; Stith, J. L.; Feichter, J.; Peng, Y.; Cheng, T.
 Asian dust and cloud ice over the North Pacific: Comparison of ECHAM5-HAM simulations and PACDEX observations

A0140; EGU2008-A-06697; IS18 - GM7.2/AS4.07/CL34-1WE5P-0140
Nickovic, S.; Perez, C.; Jorba, O.; Baldasano, J.M.
 Atlantic tropical cyclones and Saharan dust: a simulation study

A0141; EGU2008-A-10588; IS18 - GM7.2/AS4.07/CL34-1WE5P-0141
Miller, R.
 Software for constraining dust emission and bringing a dust model into optimal agreement with observations

A0142; EGU2008-A-02310; IS18 - GM7.2/AS4.07/CL34-1WE5P-0142
Knippertz, P.; THE SAMUM TEAM
 Dust Mobilization and Transport in the Northern Sahara during SAMUM 2006

A0143; EGU2008-A-09363; IS18 - GM7.2/AS4.07/CL34-1WE5P-0143
Hunt, L.; Ritchey, N
 Tracking desert dust transport with satellite data (cancelled)

A0144; EGU2008-A-10621; IS18 - GM7.2/AS4.07/CL34-1WE5P-0144
Evan, A.; Corrada-Bravo, H.; Heidinger, A
 A new dust detection methodology and 25-year climatology for the AVHRR with application to VIIRS

A0145; EGU2008-A-06628; IS18 - GM7.2/AS4.07/CL34-1WE5P-0145
di Sarra, A.; Meloni, D.; Pace, G.; De Silvestri, L.; Monteleone, F.; Piacentino, S.; Sferlazzo, D. M.
 Seasonal transport patterns and radiative forcing of Saharan dust at the Mediterranean island of Lampedusa

A0146; EGU2008-A-04995; IS18 - GM7.2/AS4.07/CL34-1WE5P-0146
Stefan, S.; Nemuc, A.; Carstea, E.; Radu, C.
 Troposphere dust loading detection from Lidar measurements

A0147; EGU2008-A-11455; IS18 - GM7.2/AS4.07/CL34-1WE5P-0147
Boroneant, C. ; Colfescu, I.; Caian, M.
 Cluster analysis of air mass trajectories reaching south of Romania

A0148; EGU2008-A-11296; IS18 - GM7.2/AS4.07/CL34-1WE5P-0148
Ulanowski, Z. ; Kalashnikova, O.V.; Lucas, P.W.; Bercot, B.
 Radiative Properties of Aligned Atmospheric Mineral Dust

A0149; EGU2008-A-04289; IS18 - GM7.2/AS4.07/CL34-1WE5P-0149
Granberg, I.; Artamonova, M.; Grechko, E.; Kramar, V.; Maksimenkov, L.; Minashkin, V.; Pogarsky, F.; Ponomarev, V.; Chkhetiani, O.; Kadygrov, E.; THE GRANBERG TEAM
 Investigation of structures and mechanisms of atmospheric pollution by arid aerosol

A0150; EGU2008-A-06029; IS18 - GM7.2/AS4.07/CL34-1WE5P-0150
Olgun, N.; Duggen, S; Croot, P; Hoffmann, L
 Airborne volcanic ash trace metal release to the surface ocean and possible effects on marine primary production

A0151; EGU2008-A-08263; IS18 - GM7.2/AS4.07/CL34-1WE5P-0151
Gelado, M.D.; López, P.; Prieto, S.; Hernández, J.J.; Collado, C.
 Metal deposition fluxes to the Canary basin

A0152; EGU2008-A-04639; IS18 - GM7.2/AS4.07/CL34-1WE5P-0152
Saukel, C.; Rincón Martinez, D.; Lamy, F.; Stuut, J.-B.; Tiedemann, R.
 Eolian transport to the SE Pacific inferred from siliciclastic grain size variability

A0153; EGU2008-A-05551; IS18 - GM7.2/AS4.07/CL34-1WE5P-0153

von Suchodoletz, H.; Zöller, L.; Faust, D.; Hambach, U.; Fuchs, M.; Oberhänsli, H.
Properties of the Late Quaternary dust export from the Sahara recorded in sediment traps on Lanzarote (Canary Islands)

A0154; EGU2008-A-05593; IS18 - GM7.2/AS4.07/CL34-1WE5P-0154

von Suchodoletz, H.; Hambach, U.; Faust, D.; Kühn, P.; Zöller, L.; Oberhänsli, H.; Fuchs, M.
Soil moisture changes recorded in sediments of volcanic sediment traps on Lanzarote (Canary Islands) – a proxy for precipitation of the last 180 ka?

A0155; EGU2008-A-12158; IS18 - GM7.2/AS4.07/CL34-1WE5P-0155

Stuut, J.B.W.; Fischer, H.; Mollenhauer, G.; Mulitza, S.; Pittauerova, D.; Zabel, M.; Schulz, M.
Late Holocene interdecadal climate variability in the Sahel: inferences from a marine dust record offshore Senegal

A0156; EGU2008-A-06465; IS18 - GM7.2/AS4.07/CL34-1WE5P-0156

Wegner, A.; Barbante, C.; Cozzi, G.; Dick, D.; Fischer, H.; Gabrielli, P.; Gaspari, V.; Kriews, M.; Ruth, U.; Stölting, I.
Sources of dust in Dronning Maud Land, Antarctica, during the last Glacial and the deglaciation derived by Rare Earth Element measurements in the EPICA-DML ice core

A0157; EGU2008-A-12059; IS18 - GM7.2/AS4.07/CL34-1WE5P-0157

Maher, B.A.
Dust and climate: the DIRTMAP2 database

A0158; EGU2008-A-12336; IS18 - GM7.2/AS4.07/CL34-1WE5P-0158

Haase, D.; Fink, J.; Haase, G.; Ruske, R.; Pecs, M.; Richter, H.; Altermann, M.; Jäger, K.-D.
Loess in Europe - its spatial distribution based on a European Loess Map, scale 1:2,500,000 (solicited)

A0159; EGU2008-A-11348; IS18 - GM7.2/AS4.07/CL34-1WE5P-0159

Machalett, B.; O'Hara-Dhand, K.; Smalley, I.J.; Frechen, M.; Lai, Z.P.; Oches, E.A.; Markovic, S.B.; Zöller, L.
The bimodal silt (Twin Peak) distribution of loess sediments – a new proxy to assess palaeoclimatic dynamics recorded in terrestrial aeolian dust archives

A0160; EGU2008-A-05062; IS18 - GM7.2/AS4.07/CL34-1WE5P-0160

Crouvi, O.; Amit, R.; Enzel, Y.; McDonald, E. V.
The significance of hilltop, eolian loess sequences in reconstructing dust sources, accretion rates and chronology: example from the Negev desert, EM

A0161; EGU2008-A-04961; IS18 - GM7.2/AS4.07/CL34-1WE5P-0161

Chen, F.; Qiang, M.; Zhou, A.
2000 years dust storm changes in Asian dust source area: A varve sediment record from Lake Sugan at the northern Qinghai-Tibetan Plateau, China

A0162; EGU2008-A-01953; IS18 - GM7.2/AS4.07/CL34-1WE5P-0162

Kaspari, S.; Mayewski, P.; Handley, M.; Kang, S.; Hou, S.; Maasch, K.; Qin, D.
A high-resolution record of atmospheric dust composition and variability since 1650 AD from a Mt. Everest ice core

Thursday

GM2.5 The relevance of Quaternary landscape formation for modern geosystems

Convener: Terhorst, B.
Co-Convener(s): Damm, B., Bork, H.
Lecture Room 18
Chairperson: N.N.

15:30–15:45; EGU2008-A-04805; GM2.5-1TH4O-001
Bork, H.-R.; Beyer, A.; Damm, B.; Dreibrodt, S.; Lubos, C.; Terhorst, B.
The relevance of landscape formation during Holocene for modern geosystems (solicited)

15:45–16:00; EGU2008-A-04951; GM2.5-1TH4O-002
Baumhauer, R.
Sahara or Sahel? – Holocene palaeoenvironmental records of Ténéré, Tchigai and Djado (Central Sahara): new implications from palaeoecological data (solicited)

16:00–16:15; EGU2008-A-02618; GM2.5-1TH4O-003
Sauer, D.; Wagner, S.; Brückner, H.; Scarciglia, F.; Stahr, K.
Marine terraces and related soil development near Metaponto, southern Italy (solicited)

16:15–16:30; EGU2008-A-04865; GM2.5-1TH4O-004
Catto, N.; Velichko, A.
Loess-Palaeosol Successions, southern and central Russian Plain: Progressively drier, generally cooler interglacials (solicited)

16:30–16:45; EGU2008-A-06874; GM2.5-1TH4O-005
SCHOLGER, R.; Terhorst, B.; vanHusen, D.
Palaeomagnetic investigations in the loess/paleosol-sequence Aschet in Upper Austria and (solicited)

16:45–17:00; EGU2008-A-06468; GM2.5-1TH4O-006
Böse, M.; Lüthgens, Chr.
Is the Young Morainic Morphology really "Young"? – Ice Marginal Positions in North-East Germany. (solicited)

17:00 END OF SESSION

GM2.5 The relevance of Quaternary landscape formation for modern geosystems – Posters

Convener: Terhorst, B.
Co-Convener(s): Damm, B., Bork, H.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0128; EGU2008-A-05399; GM2.5-1TH5P-0128
Damm, B.; Hagedorn, J.
Holocene floodplain formation and the effects on recent morphodynamics in the Little Karoo (South Africa)

A0129; EGU2008-A-10200; GM2.5-1TH5P-0129
May, J.-H.; Veit, H.
Late Quaternary fluvial landscapes of the Río Grande (Eastern Bolivia) – past processes and present problems (solicited)

A0130; EGU2008-A-11430; GM2.5-1TH5P-0130
Roten, L.; Veit, H.; Schulte, L.; Julia, R.; Zech, R.
Late Holocene fluvial sediment deposition record on alpine alluvial fan in Interlaken, Switzerland

A0131; EGU2008-A-01097; GM2.5-1TH5P-0131
Timár, G.; Pišút, P.

The development and cut-off of the Èièov/Csicsó and Nagybjacs oxbow lakes, Danube River, Slovakia/Hungary – indicators of a quickly variable riverine environment

A0132; EGU2008-A-01705; GM2.5-1TH5P-0132
Timár, G.; Petrovski, J.

Pre-regulation planform of the Körös/Cri^o River system (Hungary/Romania) in the maps of the Second Military Survey of the Habsburg Empire (1857-61)

A0133; EGU2008-A-06388; GM2.5-1TH5P-0133

Salcher, B.C.; Wagreich, M.; Faber, R.

Response of rivers to late Pleistocene and Holocene climate change and subsidence, Southern Vienna Basin, eastern Austria

A0134; EGU2008-A-00197; GM2.5-1TH5P-0134

Hijma, M.P.; Cohen, K.M.; Stouthamer, E.; Van der Spek, A.J.F.; Van Heteren, S.

Evolution of the lower Rhine-Meuse delta (The Netherlands) in the Early and Middle Holocene: an interplay between fluvial and coastal processes (solicited)

A0135; EGU2008-A-00416; GM2.5-1TH5P-0135

van Asselen, S.; Stouthamer, E.

Effects of peat compaction on floodplain morphology and delta evolution, a field study in the Cumberland Marshes, Canada (solicited)

A0136; EGU2008-A-09534; GM2.5-1TH5P-0136

Beising, E.; Leser, H.

Quaternary landforms and sediments in the southern Black Forest (solicited)

A0137; EGU2008-A-06477; GM2.5-1TH5P-0137

Lüthgens, C.; Böse, M.; Krbetschek, M.

Optically Stimulated Luminescence Dating of the Weichselian Ice Advances in North-Eastern Germany

A0138; EGU2008-A-05383; GM2.5-1TH5P-0138

Varga, K.; Becht, M.; Heckmann, T.; Damm, B.

The impact of tectonic and structural parameters in Triassic bedrocks on the landslide susceptibility in Quaternary surface formations

A0139; EGU2008-A-02167; GM2.5-1TH5P-0139

Kötritsch, E.; Terhorst, B.; Mayrhofer, M.; Ottner, F.; Damm, B.

Parameters of slope stability in Quaternary sediments in landslide areas of the Wienerwald Flysch Zone (Vienna forest/Lower Austria)

A0140; EGU2008-A-04519; GM2.5-1TH5P-0140

Starnberger, R.

Geomorphological and palaeoecological investigations in the periglacial area of the Pleistocene Salzach glacier (Austria)

A0141; EGU2008-A-11012; GM2.5-1TH5P-0141

Jaburová, I.; Hofer, I.; Terhorst, B.; Roetzel, R.; Einwögerer, T.; Simon, U.; Fladerer, F.

Quaternary landscape formation in the loess plate of the Kremsfeld in the Danube region (Lower Austria)

A0142; EGU2008-A-05177; GM2.5-1TH5P-0142

Markovic, S. B.; Štrbac, D.; Hambach, U.; Machalet, B.; Jovanovic, M.; Zöller, L.; Lukic, T.; Gaudenyi, T.; Basarin, B.

Paleosurface reconstruction of the Titel loess plateau (Vojvodina, Serbia) using GIS (solicited)

A0143; EGU2008-A-07897; GM2.5-1TH5P-0143

Carnicelli, S.; Malucelli, F.; Andreetta, A.; Mirabella, A.

Evolution of an active mountainfront analyzed through palaeosols (solicited)

A0144; EGU2008-A-08800; GM2.5-1TH5P-0144

Peticzka, R.; Holawe, F.; Riegler, D.

Detailed sampling from a “one-piece-monolithic-bloc” of the Paleosol Stillfried B

A0145; EGU2008-A-05302; GM2.5-1TH5P-0145

Först, M.; Terhorst, B.; Sedov, S.; Solleiro-Rebolledo, E.; Sycheva, S.

Climate Change and Landscape Development in Central Mexico Based on the Investigation of Paleosols.

IS16 - GM3.1/CR16 Glacial landscape evolution and paleoglaciological reconstructions (co-organised by GM & CR)

Convener: Stroeve, A.

Co-Convener(s): Clark, C., Swift, D.

Lecture Room 18

Chairperson: N.N.

8:30–8:45; EGU2008-A-11657; IS16 - GM3.1/CR16-1TH1O-001

Kleman, J.; Jansson, K.N.; Hättstrand, C.; De Angelis, H.; Stroeve, A.P.; Glasser, N.F.; Alm, G.; Borgström, I.

The Laurentide Ice Sheet from the last interglacial to the LGM - a reconstruction based on integration of geospatial and stratigraphical data

8:45–9:00; EGU2008-A-07284; IS16 - GM3.1/CR16-1TH1O-002

O’Cofaigh, C.; Dowdeswell, J.A.; Evans, J.; Larer, R.D.

Reconstructing past ice sheet form and flow on high-latitude continental margins from marine geology and geophysics

9:00–9:15; EGU2008-A-08082; IS16 - GM3.1/CR16-1TH1O-003

Van Landeghem, K.; **Wheeler, A.J.;** Mitchell, N.C.

High resolution bathymetry data documenting a palaeoglacial terrain offshore Anglesey, UK: implications for the final deglaciation phase of the Irish Sea.

9:15–9:30; EGU2008-A-08464; IS16 - GM3.1/CR16-1TH1O-004

Fredin, O.; Larsen, E.; Lyså, A.; Hansen, L.; Beylich, A.; Burki, V.; Nesje, A.; Derron, M.; Eilertsen, R.; Tønnesen, J.

Sediment budget, processes and landscape evolution in Nordfjord, western Norway

9:30–9:45; EGU2008-A-07548; IS16 - GM3.1/CR16-1TH1O-005

Jansson, K.N.; Dahlgren, K.T.; Stroeve, A.P.; Alm, G.; Glasser, N.F.; Goodfellow, B.W.

Glacial erosion and the evolution of relief in northern Scandinavia over the last 2.7 Myr

9:45–10:00; EGU2008-A-10673; IS16 - GM3.1/CR16-1TH1O-006

Egholm, D.L.; Nielsen, S.B.; Pedersen, V.K.

Modelling glacial erosion

10:00 END OF SESSION

IS16 - GM3.1/CR16 Glacial landscape evolution and paleoglaciological reconstructions (co-organised by GM & CR) – Posters

Convener: Stroeve, A.
Co-Convener(s): Clark, C., Swift, D.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A
Chairperson: N.N.

A0146; EGU2008-A-03118; IS16 - GM3.1/CR16-1TH5P-0146
Mindrescu, M.

Glacial cirque development and distribution in the Romanian Carpathians

A0147; EGU2008-A-05654; IS16 - GM3.1/CR16-1TH5P-0147
Krawczyk, W.E.

The range of chemical denudation rates on Svalbard

A0148; EGU2008-A-08352; IS16 - GM3.1/CR16-1TH5P-0148
Kasprzak, L.; Ewertowski, M.

Dynamic and paleoglaciological reconstructions of the Slawa Slaska ice-lobe (LGM), West central Poland

A0149; EGU2008-A-09207; IS16 - GM3.1/CR16-1TH5P-0149
Hubbard, B.; Chandler, D.

Quantifying sample bias in clast fabric measurements

A0150; EGU2008-A-11339; IS16 - GM3.1/CR16-1TH5P-0150
Heyman, J.; Stroeve, A.P.; Hättstrand, C.; Alexander-

son, H.; Li, Y.K.; Harbor, J.; Caffee, M.W.; Zhou, L.P.; Veres, D.

Reconstructing former glacial extent of the NE Tibetan Plateau – combining remote sensing and field data of glacial geology

A0151; EGU2008-A-00386; IS16 - GM3.1/CR16-1TH5P-0151
Margold, M.; Jansson, K.

Towards method development in mapping meltwater features from remotely sensed and digital elevation data

A0152; EGU2008-A-02950; IS16 - GM3.1/CR16-1TH5P-0152
Chu, H. T.

Variations in glacial relicts and landforms in the high mountains of subtropical Taiwan

A0153; EGU2008-A-05511; IS16 - GM3.1/CR16-1TH5P-0153
Gonga-saholiariliva, N.; Treille, P.; Gunnell, Y.

Mapping of glacial landforms and deposits from multi-sensor satellite image processing coupled with geological data in northern Alberta, Canada

A0154; EGU2008-A-08190; IS16 - GM3.1/CR16-1TH5P-0154
Van Landeghem, K.; **Wheeler, A.J.;** Mitchell, N.C.

Preserved subglacial and ice-marginal systems offshore Anglesey, UK: reconstructing the final deglaciation conditions of the Irish Sea.

A0155; EGU2008-A-08682; IS16 - GM3.1/CR16-1TH5P-0155
Fredin, O

Spectral enhancement of satellite images for easier detection and mapping of glacial landforms

A0156; EGU2008-A-09159; IS16 - GM3.1/CR16-1TH5P-0156
Pelfini, M.; Leonelli, G.; Garavaglia, V.

Dendroglaciological investigation on debris-covered glaciers and GIS application: the case of Miage Glacier (Western Italian Alps)

A0157; EGU2008-A-10437; IS16 - GM3.1/CR16-1TH5P-0157
Leopold, M.; Voelkel, J.; Dethier, D.P.

Near surface geophysics and sediment analysis to precisely date the outburst of glacial Lake Devlin, Front Range Colorado, USA

A0158; EGU2008-A-11098; IS16 - GM3.1/CR16-1TH5P-0158
Bächtiger, Ch.; Ilgner, J.; Zech, R.; Veit, H.

Glacial landscape evolution at the Tres Lagunas, NW-Argentina: a potential calibration site for surface exposure dating

GM3.5 Cold regions geomorphology: present landforms and past climate (co-listed in CR)

Convener: Roer, I.

Co-Convener(s): Frauenfelder, R., Lukas, S., Goodfellow, B.

Lecture Room 18

Chairperson: ROER, I.

13:30–13:45; EGU2008-A-06361; GM3.5-1TH3O-001

Evans, D.J.A

Modern analogues of moraine formation and implications for palaeo-glacier dynamics (solicited)

13:45–14:00; EGU2008-A-02815; GM3.5-1TH3O-002

Carr, S; Goddard, M; Coleman, C

Quantifying strain beneath glaciers: fabric analyses at macro and micro-scales

14:00–14:15; EGU2008-A-04314; GM3.5-1TH3O-003

Sass, O.; Lukas, S.

Debris Flow or Deformation? Ground-Penetrating Radar Patterns of Alpine Moraines

14:15–14:30; EGU2008-A-00283; GM3.5-1TH3O-004

Mills, S. C; Carr, S. J; Grab, S. W; Rea, B. R

Reconstructing the extent of past glaciation in eastern Lesotho during the LGM

14:30–14:45; EGU2008-A-08608; GM3.5-1TH3O-005

Boehlert, R.; Egli, M.; Maisch, M.; Brandová, D.; Ivy-Ochs, S.; Haeberli, W.

Landscape evolution in the Albula region (Grisons, eastern Switzerland) during the Lateglacial and early Holocene

14:45–15:00; EGU2008-A-03447; GM3.5-1TH3O-006

Oliva, M.; Schulte, L.; Gómez Ortiz, A.

Solifluction phases in Sierra Nevada during the Late Holocene

15:00 END OF SESSION

GM3.5 Cold regions geomorphology: present landforms and past climate (co-listed in CR) – Posters

Convener: Roer, I.
Co-Convener(s): Frauenfelder, R., Lukas, S., Goodfellow, B.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: FRAUENFELDER, R.

A0159; EGU2008-A-05117; GM3.5-1TH5P-0159
Lukas, S.; Graf, A.; Sass, O.; Schl¹/₄chter, C.
Latero-frontal moraine formation and modification in Alpine environments

A0160; EGU2008-A-03066; GM3.5-1TH5P-0160
Koblet, T.; Haeberli, W.; Holmlund, P.; Jansson, P.; Roer, I.; Thee, P.; Zemp, M.
Comparison of volumetric changes and in-situ mass balance measurements at Storglaciären (Tarfala Valley, Sweden)

A0161; EGU2008-A-09162; GM3.5-1TH5P-0161
Lari, S.; Frattini, P.; Crosta, G.B.
Controls on post-glacial formation of deltas in Como Lake (Italy)

A0162; EGU2008-A-00879; GM3.5-1TH5P-0162
Sokratova, I. N.
The unanswered question of the origin of the Antarctic oases

A0163; EGU2008-A-06062; GM3.5-1TH5P-0163
Zech, M.; Zech, R.; Zech, W.; Glaser, B.; Brodowski, S.; Amelung, W.
Multi-proxy analytical characterization and palaeoclimatic interpretation of a loess-like permafrost palaeosol sequence in the Verkhoyansk Mountains, NE Siberia

A0164; EGU2008-A-07685; GM3.5-1TH5P-0164
Narama, C.; Kondo, R.; Tsukamoto, S.; Kajiura, T.; Duishonakunov, M.; Abdrakhmatov, K.
The glacial history during the Last Glacial in Fergana and Kungoy Ala-Too ranges in the Tien Shan mountains, Kyrgyz Republic by OSL dating

A0165; EGU2008-A-00342; GM3.5-1TH5P-0165
Goodfellow, B.W.; Stroeven, A.P.; Fabel, D.; Fredin, O.; Derron, M.-H.; Caffee, M.W.; Bintanja, R.
Blockfield Origins: Neogene or Quaternary?

A0166; EGU2008-A-06906; GM3.5-1TH5P-0166
Bovy, B.; Braun, J.; Demoulin, A.
Modelling hillslope evolution in NW Europe under alternating periglacial and temperate regimes

A0167; EGU2008-A-03486; GM3.5-1TH5P-0167
Oliva, M.; Schulte, L.; Gómez Ortiz, A.
Spatial and morphometrical approach to solifluction lobes in Sierra Nevada

A0168; EGU2008-A-10786; GM3.5-1TH5P-0168
Voelkel, J.; Raab, T.A.; Leopold, M.
Stratigraphy, material characteristics and dating of periglacial slope deposits as a crucial element of the critical zone

A0169; EGU2008-A-06393; GM3.5-1TH5P-0169
Kellerer-Pirklbauer, A.
Relative surface age-dating of alpine rock glaciers: An Example from the Hohe Tauern Range, Central Austria

GM3.6 Periglacial and paraglacial processes (co-listed in CR)

Convener: Christiansen, H.
Co-Convener(s): Murton, J., Korup, O., Crosta, G., Clague, J.
Lecture Room 18
Chairperson: KORUP, O & CHRISTIANSEN, H.H.

10:30–10:45; EGU2008-A-06145; GM3.6-1TH2O-001
Védie, E.; **Font, M.;** Lagarde, J.-L.
Slope morphodynamics in periglacial environments: data from physical modelling

10:45–11:00; EGU2008-A-06246; GM3.6-1TH2O-002
Gruber, S.; Hoelzle, M.
The thermal conductivity related cooling effect of coarse block

11:00–11:15; EGU2008-A-03202; GM3.6-1TH2O-003
Schneider, D.; Allen, S.; Christen, M.; Huggel, C.; McArdell, B.W.; Bartelt, P.
Application of the RAMMS model to recent and potential rock-ice avalanches in the Mount Cook region (New Zealand)

11:15–11:30; EGU2008-A-11917; GM3.6-1TH2O-004
Schlunegger, F.; Badoux, A.; Gwerder, C.; Schnydrig, D.; Rieke-Zapp, D.; Molnar, P.; McArdell, B.W.
Controls, mechanisms and limits of sediment transfer in of the most active debris flow catchments in the Alps, the Illgraben catchment

11:30–11:45; EGU2008-A-05235; GM3.6-1TH2O-005
Zech, R.; Zech, W.; Kubik, P.W.; Karki, K.
Glaciation and landslide history around the Annapurna, Nepal, based on ¹⁰Be surface exposure dating

11:45–12:00; EGU2008-A-02591; GM3.6-1TH2O-006
Beylich, A.A.; Hansen, L.; Liermann, S.; Gintz, D.; Laute, K.; Vatne, G.; Fredin, O.; Burki, V.; Berthling, I.; Schmidt, K.-H.
Sub-recent sediment dynamics and sediment budget of the braided sandur system at Sandane, Erdalen (Nordfjord, Western Norway)

12:00 END OF SESSION

GM3.6 Periglacial and paraglacial processes (co-listed in CR) – Posters

Convener: Christiansen, H.
Co-Convener(s): Murton, J., Korup, O., Crosta, G., Clague, J.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0170; EGU2008-A-02061; GM3.6-1TH5P-0170
Kellerer-Pirklbauer, A.; Kaufmann, V.; Krobath, M.; Lieb, G.K.; Avian, M.
10 Years of Monitoring the Rock Glacier Kinematic and Surface Temperature at Weissenkar Rock Glacier, Austria (1997-2007)

A0171; EGU2008-A-04685; GM3.6-1TH5P-0171
Juliussen, H.; Christiansen, H.H.
Active Layer Monitoring using Geoelectrical Resistivity Tomography

A0172; EGU2008-A-07875; GM3.6-1TH5P-0172
Friedlein, M.; Kneisel, C.
Geomorphological and geophysical investigations on the complexity of periglacial landforms in a subarctic-alpine geosystem (northern Sweden)

A0173; EGU2008-A-10188; GM3.6-1TH5P-0173
Farbrot, H.; Kellerer-Pirklbauer, A.; Frauenfelder, R.
Towards an understanding of rock glacier initiation in the Gaissane Mountains, Northern Norway

A0174; EGU2008-A-11341; GM3.6-1TH5P-0174
Ferbar, M.; Sørbel, L.
Data from the Haukskardmyrin palsa mire, Southern Norway

A0175; EGU2008-A-11699; GM3.6-1TH5P-0175
Etzelmueller, B.; **Odegard Strand, R.;** Humlum, O.; Schuler Vikhamar, T.; Isaksen, K.
CRYOLINK - Permafrost and seasonal frost in Southern Norway

A0176; EGU2008-A-01660; GM3.6-1TH5P-0176
Beylich, A.A.; Kneisel, C.
Postglacial sediment budget and relief development in Hrafnadalur, Eastern Iceland

A0177; EGU2008-A-02574; GM3.6-1TH5P-0177
Sass, O.; Willimzik, C.
Assessing talus Activity Patterns using Lichenometry in the Stubai Alps - some Results and many Problems

A0178; EGU2008-A-06824; GM3.6-1TH5P-0178
Cossart, E.; Fort, M.
Differentiated pathways of debris removal along a trunk valley during accelerated glacial recession. Examples from Vallouise area (Southern French Alps) since 1950.

A0179; EGU2008-A-04812; GM3.6-1TH5P-0179
Delmas, M.; Calvet, M.; **Gunnell, Y.**
Variability of denudation rates in the eastern Pyrenees during the last glacial cycle

A0180; EGU2008-A-10573; GM3.6-1TH5P-0180
Deline, P.
Paraglacial control on rock avalanches in the Mont Blanc massif occurred during the recent Holocene

A0181; EGU2008-A-03266; GM3.6-1TH5P-0181
Moore, J.R.; Sanders, J.W.; Dietrich, W.E.; Glaser, S.D.
The influence of rock mass strength on the erosion rate of alpine cliffs in the Sierra Nevada, California, USA

A0182; EGU2008-A-07505; GM3.6-1TH5P-0182
Ghysels, G.; Heyse, I.; Buylaert, J.-P.
Composite-wedge pseudomorphs and relict sand wedges in lowland Belgium: growth and decay history, optically stimulated luminescence dating and palaeoenvironmental implications

A0183; EGU2008-A-10799; GM3.6-1TH5P-0183
Fauque, L.; **Hermanns, R.L.;** Rosas, M.; Wilson, C.; Baumann, V.; DiTommaso, I.; Hewitt, K.
Redefinition of the Horcones Deposit as related to post-glacial Collapse of Cerro Aconcagua makes necessary redefining glacial Stratigraphy of Horcones-, Las Cuevas- and Mendoza valley, Argentina

A0184; EGU2008-A-08605; GM3.6-1TH5P-0184
Draganits, E.; Gier, S.; Hofmann, C.C.; Janda, C.; Grase-mann, B.; Hager, C.
The sedimentary record of an early Holocene landslide-dammed lake (Baspa Valley, NW Himalaya)

GM5.1 Dynamics and morphology of erosional channels (co-listed in HS)

Convener: Turowski, J.
Co-Convener(s): Lague, D.
Lecture Room 9
Chairperson: N.N.

13:30–13:45; EGU2008-A-10723; GM5.1-1TH3O-001
Campo, M.A.; Flores-Cervantes, J.H.; Bras, R.L.; Casali, J.
Evaluation of a gully headcut retreat model with a field data set

13:45–14:00; EGU2008-A-05882; GM5.1-1TH3O-002
Hancock, G. R.; Evans, K.G.
Gully and channel erosion dynamics - a medium term assessment for an undisturbed catchment in Northern Australia

14:00–14:15; EGU2008-A-07451; GM5.1-1TH3O-003
Cassar, C.; Dreano, J.; Lague, D.; Valance, A.
Experimental study of the relationship between mobile alluvial cover dynamics and sediment supply

14:15–14:30; EGU2008-A-08281; GM5.1-1TH3O-004
Remaître, A.; Maquaire, O.; Malet, J.-P.
Erosion by debris-flows: sediment budget and channel-shaping processes

14:30–14:45; EGU2008-A-08592; GM5.1-1TH3O-005
Jansen, JD; Codilean, AT; Bishop, P; Hoey, TB
Lithogenic controls on bedrock channel width & slope in a glaciated, postorogenic landscape; 18 rivers in west Scotland

14:45–15:00; EGU2008-A-03381; GM5.1-1TH3O-006
Valla, P.; van der Beek, P.; Lague, D.
Bedrock gorges incising glacial hanging valleys: insights from morphometric analysis and numerical modelling

15:00 END OF SESSION

GM5.1 Dynamics and morphology of erosional channels (co-listed in HS) – Posters

Convener: Turowski, J.
Co-Convener(s): Lague, D.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: N.N.

A0185; EGU2008-A-02334; GM5.1-1TH5P-0185
Malverti, L.; **Lajeunesse, E.;** Métivier, F.
Small is beautiful: upscaling from microscale laminar to natural turbulent rivers

A0186; EGU2008-A-08218; GM5.1-1TH5P-0186
Molnar, P.; Densmore, A.; McArdeall, B.; Burlando, P.
Scaling and variability in steps in steep mountain streams

A0187; EGU2008-A-03341; GM5.1-1TH5P-0187
Wilson, A.; Hovius, N; Lavé, J
Solid particle impact abrasion and the formation of bedrock bedforms

A0188; EGU2008-A-02534; GM5.1-1TH5P-0188
Turowski, JM; Rickenmann, D
Tools and cover effects in bedload transport observations in the Pitzbach, Austria

A0189; EGU2008-A-10109; GM5.1-1TH5P-0189
Hobley, D.; Sinclair, H.; Cowie, P.
The role of sediment in governing incision in paraglacial fluvial environments

A0190; EGU2008-A-05646; GM5.1-1TH5P-0190
Harbor, D; Gunnell, Y; Braucher, R
Rate and style of canyon incision and knickzone retreat in South India

A0191; EGU2008-A-08717; GM5.1-1TH5P-0191
Bonnet, S.; Rieser, U.; Moulin, L.; Lague, D.; Davy, P.; Lacoste, A.
Erosional dynamics of the Rangitikei River (North Island, New Zealand) since the Last Glacial Maximum

A0192; EGU2008-A-06886; GM5.1-1TH5P-0192
Vatne, G.; Beylich, A.A.; Fjeldstad, K.; Johnsen, M.; Krogstad, T.S.; Gullaksen, O.; Østgård, S.
Scour hollows in the lower parts of the river Gaula, Central Norway

A0193; EGU2008-A-09837; GM5.1-1TH5P-0193
Hradecký, J.
Geomorphic response of gravel-bed Carpathian rivers to human impact (Czech Republic)

GM5.2 River meander dynamics (co-listed in HS) – Posters

Convener: Hooke, J.
Co-Convener(s): Zolezzi, G., Gautier, E.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 17:30–19:00
Poster Area Hall A
Chairperson: ZOLEZZI, G

A0194; EGU2008-A-01120; GM5.2-1TH5P-0194
Crosato, A.
Possibilities and limitations of physics-based meander migration predictions

A0195; EGU2008-A-04858; GM5.2-1TH5P-0195
Nanson, G.C.; Huang, H.C.
Least action principle, equilibrium states, iterative adjustment and the stability of meandering channels

A0196; EGU2008-A-08037; GM5.2-1TH5P-0196
Coulthard, T; Ramirez, J; Van De Wiel, M
Cellular modelling of river meandering

A0197; EGU2008-A-01161; GM5.2-1TH5P-0197
Hooke, J.
Meander evolution, trajectories and stability: review of approaches, evidence and potential for prediction

A0198; EGU2008-A-09094; GM5.2-1TH5P-0198
Luchi, R.; Zolezzi, G.; Tubino, M.
On width variations triggered by channel curvature

A0199; EGU2008-A-04007; GM5.2-1TH5P-0199
Camporeale, C; **Macario, L;** Ridolfi, L
Experimental investigation on the inception of meander formation

A0200; EGU2008-A-09742; GM5.2-1TH5P-0200
Termini, D.; **Piraino, M.**
Experimental analysis of flow motion in a large amplitude meandering bend

A0201; EGU2008-A-01379; GM5.2-1TH5P-0201
I. Nardi, I. N.; I. Solari, I. S.; m. Rinaldi, m. R.; s. Lanzoni, s. L.
Physical modelling of instability processes in coarse-grained riverbanks.

A0202; EGU2008-A-07655; GM5.2-1TH5P-0202
Nobile, G.; Bolla Pittaluga, M.; Seminara, G.
Application of a non linear model to a reach of the Cecina River

A0203; EGU2008-A-02556; GM5.2-1TH5P-0203
Houbrechts, G.; Snijders, J.-P.; Petit, F.
Analysis of lateral mobility of Ardenne rivers during the last centuries using iron slag

A0204; EGU2008-A-01160; GM5.2-1TH5P-0204
Hooke, J.
Processes and mechanisms of morphological change in active meandering river channels

A0205; EGU2008-A-11876; GM5.2-1TH5P-0205
Abad, J; Garcia, M
Bedforms in high-amplitude meandering channels

A0206; EGU2008-A-00826; GM5.2-1TH5P-0206
PERSOIU, I.
Time and space adjustments of Somesu Mic River. Causes and effects

A0207; EGU2008-A-01176; GM5.2-1TH5P-0207
Hooke, J.
Meander cut-offs: processes, rates and characteristics of sedimentation over time

GM5.3 Linking geomorphological and hydrological processes at reach and catchment scales (co-listed in HS)

Convener: Lawler, D.
Co-Convener(s): Rinaldi, M.
Lecture Room 9
Chairperson: LAWLER, D./RINALDI, M.

15:30–15:45; EGU2008-A-06508; GM5.3-1TH4O-001
Enters, D.; Arnaud, F.; Poulenard, J.; Giguët-Covex, C.; Malet, E.
Long-term monitoring of sediment transfer processes at an alpine catchment (Lake Anterne, French Alps): concept and first results

15:45–16:00; EGU2008-A-11295; GM5.3-1TH4O-002
Barker, D.; **Lawler, D.M.;** Knight, D.W.; Morris, D.; Stewart, L.; Riesner, S.
Modelling downstream change in river flood power: a novel approach combining hydrological flood estimation systems with DEMs and new channel width data sources

16:00–16:15; EGU2008-A-09659; GM5.3-1TH4O-003
Goulsbra, C.; Evans, M.; Lindsay, J.
Monitoring ephemeral streamflows in a peatland headwater catchment

16:15–16:30; EGU2008-A-05195; GM5.3-1TH4O-004
Wörman, A; Marklund, L
Topographical scaling of surface water-groundwater interaction

16:30–16:45; EGU2008-A-04259; GM5.3-1TH4O-005
Williams, D.D.
Biological processes within the hyporheic zone and their relationship with sediment and riffle-scale hydrology.

16:45–17:00; EGU2008-A-05585; GM5.3-1TH4O-006
Zaramella, M.; **Marion, A.;** Bottacin-Busolin, A.
Solute transport in rivers with surface and hyporheic storage: the STIR model

17:00 END OF SESSION

GM5.3 Linking geomorphological and hydrological processes at reach and catchment scales (co-listed in HS) – Posters

Convener: Lawler, D.

Co-Convener(s): Rinaldi, M.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Hall A

Chairperson: RINALDI, M. / LAWLER, D.

A0208; EGU2008-A-01239; GM5.3-1TH5P-0208

Luppi, L.; Attardo, S.; **Rinaldi, M.**

Modelling the effects of a single tree on river bank stability at the scale of single flow events

A0209; EGU2008-A-01241; GM5.3-1TH5P-0209

Rinaldi, M.; Teruggi, L.B.; Nardi, L.

Investigation on bank instability distribution along the Cecina River (Central Italy)

A0210; EGU2008-A-03664; GM5.3-1TH5P-0210

TERUGGI, L. B.; Chiaverini, I.; Rinaldi, M.; Ostuni, D.

Terrestrial photogrammetry for monitoring riverbank erosion

A0211; EGU2008-A-02093; GM5.3-1TH5P-0211

Tiberi, V.; Nesci, O.; Savelli, D.; **Troiani, F.**

Geomorphologic analysis of river reaches and segments within the Mutino catchment (Northern Marche Apennines, central Italy)

A0212; EGU2008-A-11360; GM5.3-1TH5P-0212

Lawler, D.M.; Best, A.; Bridgeman, J.; Foster, I.; Harper, S. Anticlockwise hysteresis behaviour in urban river fine sediment transport dynamics: a challenge for the first-flush model

A0213; EGU2008-A-11055; GM5.3-1TH5P-0213

Navrátil, O.; Albert, M.B.

Using bankfull discharge to quantify the effects of urbanization on river morphology: study of the Yzeron river basin (France)

A0214; EGU2008-A-10219; GM5.3-1TH5P-0214

Kloesch, M.; Habersack, H.

Monitoring the effectiveness of material input and self-initiated bank erosion in mitigating channel incision at the Mur River, Austria

A0215; EGU2008-A-10891; GM5.3-1TH5P-0215

Heckmann, T.; Becht, M.

Modelling-based investigation of geomorphic coupling

A0216; EGU2008-A-12272; GM5.3-1TH5P-0216

Walsh, R.P.D.; Sayer, A.M.; Clarke, M.A.; Bidin, K.; Blake, W.H.

A dual, uncoupled model of channel network initiation, development and maintenance in a tropical rain-forest environment in Borneo: simultaneous roles of tunnelling and erosion by overland flow

A0217; EGU2008-A-00050; GM5.3-1TH5P-0217

Efe, R.; Curebal, I.

Detection of meander migration and river course change using Remote Sensing, GIS, and field data in the Üzümcü River Basin

A0218; EGU2008-A-01235; GM5.3-1TH5P-0218

Khadkikar, A.S.

On the planform geometry of estuaries and its relationship with discharge and tidal regime

A0219; EGU2008-A-05666; GM5.3-1TH5P-0219

Szek, M.

Landscape connectivity as an opposite process to the landscape fragmentation. The Catalonia's network of protected areas

A0220; EGU2008-A-06101; GM5.3-1TH5P-0220

Zlinszky, A.; Székely, B.; Clement, A.

Comparing sediment load and deposit thickness values in the eastern embayment of shallow Lake Balaton, Hungary

Friday

GM1.5 Reduced Complexity Modelling in Geomorphology

Convener: Coulthard, T.

Co-Convener(s): Nicholas, A., Baas, A.

Lecture Room 18

Chairperson: N.N.

8:30–8:45; EGU2008-A-04676; GM1.5-1FR1O-001

Davy, P.; Moulin, L.; Lague, D.

A cellular-automaton model of wide rivers, and discussion about the basic processes required to braiding

8:45–9:00; EGU2008-A-07951; GM1.5-1FR1O-002

Temme, A.; Veldkamp, A.

Multi-process 50ka landscape evolution modelling of a valley in South Africa

9:00–9:15; EGU2008-A-07978; GM1.5-1FR1O-003

Hergarten, S.; Robl, J.; Stüwe, K.

Crustal Deformation, River Anticlines and the Location of the Highest Mountains

9:15–9:30; EGU2008-A-06704; GM1.5-1FR1O-004

Hodge, R.; Hoey, T

The use of a cellular automaton model to investigate variation in bedrock channel exposure with sediment transport rate

9:30–9:45; EGU2008-A-05674; GM1.5-1FR1O-005

Welsh, K.E.; Dearing, J.A.; Chiverrell, R.C.; Coulthard, T.J.; Lang, A.

Palaeodata/model comparison: testing a cellular based approach to modelling sediment transfer from a catchment to a lacustrine basin

9:45–10:00; EGU2008-A-02873; GM1.5-1FR1O-006

Nield, J.M.; Baas, A.C.W

Interpreting ecogeomorphic interactions and disturbance response in vegetated aeolian dune systems

10:00 END OF SESSION

GM1.5 Reduced Complexity Modelling in Geomorphology – Posters

Convener: Coulthard, T.

Co-Convener(s): Nicholas, A., Baas, A.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0201; EGU2008-A-05474; GM1.5-1FR3P-0201

Nicholas, A

Reduced-complexity flow routing models for sinuous single-thread channels

A0202; EGU2008-A-05556; GM1.5-1FR3P-0202

MOULIN, L. M.; DAVY, P. D.; THOMAS, M. T.; LAGUE, D. L.; DELACOURT, C. D.; BONNET, S. B. Characterization of braided rivers in natural environments (Canterbury Plains, New Zealand) and numerical models

A0203; EGU2008-A-01118; GM1.5-1FR3P-0203
Van, T.; **Carling, P.**; Coulthard, T.
The application of a reduced complexity model to forecast the flooding patterns of an anastomosing river system

A0204; EGU2008-A-12030; GM1.5-1FR3P-0204
Douvinet, J.; Viel, V.; Delahaye, D.; Le Gouée, P.; Gaillard, D.; Langlois, P
Cellular modelling of muddy floods occurring in dry valleys: Advances and challenges

A0205; EGU2008-A-00817; GM1.5-1FR3P-0205
Hutton, C.; Nicholas, A.; Brazier, R.; Nearing, M
Modelling ephemeral channel evolution in the American South-west

A0206; EGU2008-A-01577; GM1.5-1FR3P-0206
Ding, J.; Reis, R.; Richards, K
Steady state scenario modelling of sediment delivery in a large catchment; some implications for reduced complexity modelling

A0207; EGU2008-A-00018; GM1.5-1FR3P-0207
Coulthard, T.; Baas, A
Wind vs Water. Modelling the battle between dunes and rivers

A0208; EGU2008-A-04725; GM1.5-1FR3P-0208
Eastwood, E.N.; **Nield, J.M.**; Baas, A.C.W
Aeolian source-controlled dynamics in a cellular automaton model

A0209; EGU2008-A-03713; GM1.5-1FR3P-0209
Baas, A.C.W.; Nield, J.M.
State Variables and Phase Space Construction for Ecogeomorphic Complex Systems

A0210; EGU2008-A-09695; GM1.5-1FR3P-0210
Odoni, N. A.; Darby, S. E.
Metamodels: simple tools to explore complex models in the geosciences

GM4.1 Weathering - short-term processes and long-term rates (co-sponsored by EAG)

Convener: Sass, O.
Co-Convener(s): Viles, H.
Lecture Room 18
Chairperson: N.N.

13:30–13:45; EGU2008-A-01156; GM4.1-1FR3O-001
Sugden, D.E.; Jamieson, SSRJ
Landscape evolution of Antarctica

13:45–14:00; EGU2008-A-12013; GM4.1-1FR3O-002
Murton, J
Bedrock fracture and landscape development in frost-susceptible permafrost

14:00–14:15; EGU2008-A-11021; GM4.1-1FR3O-003
Hättestrand, C.; Stroeve, A.P.; Fabel, D.; Fredin, O.; Johansson, L.
Formation and age of tors and other weathering residuals in northeastern Sweden

14:15–14:30; EGU2008-A-00082; GM4.1-1FR3O-004
Ceryan, S.; **Zorlu, K.**; Gokceoglu, C.; Temel, A.
Characterization of the weathering degree of granitic rocks by the cation packing index

14:30–14:45; EGU2008-A-04649; GM4.1-1FR3O-005
Meyer, H.; Hetzel, R.; Strauss, H
Erosion rates on different timescales in river catchments of the Rhenish Massif and the Black Forest, Germany

14:45–15:00; EGU2008-A-05732; GM4.1-1FR3O-006
Wilkinson, M.; Humphreys, G.; Chappell, J.; Fifield, K.; Smith, B
Bioturbation, soil production and long-term plateau evolution

15:00 END OF SESSION

GM4.1 Weathering - short-term processes and long-term rates (co-sponsored by EAG) – Posters

Convener: Sass, O.
Co-Convener(s): Viles, H.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

A0211; EGU2008-A-07557; GM4.1-1FR4P-0211
Sass, O.
Monitoring Frost Weathering using Resistivity Measurements

A0212; EGU2008-A-10817; GM4.1-1FR4P-0212
Voelkel, J.; Huber, J.; Huerkamp, K.; Lutterschmid, E.
Regolith and Saprolite as crucial elements within the Critical Zone

A0213; EGU2008-A-06031; GM4.1-1FR4P-0213
Yamasaki, S.; Chigira, M
Weathering processes of pelitic schist and its role in landslide development

A0214; EGU2008-A-07261; GM4.1-1FR4P-0214
Varilova, Z.; Prikryl, R.
Salt weathering of Praveč Rock Arch (Czech Republic)

A0215; EGU2008-A-05717; GM4.1-1FR4P-0215
Ramos-Pereira, A.; **Borges, B.**; Trindade, J.
Degradation processes on eolianites and micromorphology on the Southwestern coast of Portugal (Alentejo)

A0216; EGU2008-A-07477; GM4.1-1FR4P-0216
Viles, H
Weathering and breakdown of mica schist on sand ramps in the Cunene Valley, N W Namibia: Implications for understanding the tempo of geomorphic change

A0217; EGU2008-A-10832; GM4.1-1FR4P-0217
Turi, N.; Nemes, R.; Prikryl, R.; **Török, Á.**
Change of thermal dilatation coefficient of sandstones under cyclic thermal load, a laboratory simulation of sandstone weathering

A0218; EGU2008-A-11070; GM4.1-1FR4P-0218
Török, Á.
The use and limitations of Schmidt hammer and Duroscope tests in assessing surface properties of weathered limestone and travertine

A0219; EGU2008-A-00083; GM4.1-1FR4P-0219
Zorlu, K.
A simple and non-destructive approach to predict the weathering state of limestone blocks used as building stone

GM4.2 Soil erosion as a geomorphological process (co-listed in HS)

Convener: Kirkby, M.
Co-Convener(s): Govers, G.
Lecture Room 18
Chairperson: N.N.

10:30–10:45; EGU2008-A-01542; GM4.2-1FR2O-001

Kirkby, M J; Irvine, B J; Dalen, EN
Soil erosion in time and space

10:45–11:00; EGU2008-A-02502; GM4.2-1FR2O-002

Molina, A; Govers, G; Vanacker, V; Van den putte, A; Smets, T
Effectiveness of gully bed recolonisation on reducing hydrological connectivity in degraded mountain catchments

11:00–11:15; EGU2008-A-05281; GM4.2-1FR2O-003

Cammeraat, E.; Castillo, V.; Chung, S.-M; Schuett, B.
Landscape Development and spatio-temporal Variation in Soil Erosion Rates: Impact of Man, Climate or Neotectonics?

11:15–11:30; EGU2008-A-10213; GM4.2-1FR2O-004

Oliveto, G.; Di Domenico, A.; Palma, D.
Spatial and temporal evolution of laboratory-generated drainage networks

11:30–11:45; EGU2008-A-02576; GM4.2-1FR2O-005

Mirzaei, M.R.; Ruy, S.; Ziarati, T.; Khaledian, M.R.; Bogner, C.
Changes of soil surface roughness under simulated rainfall evaluated by photogrammetry

11:45 END OF SESSION

GM4.2 Soil erosion as a geomorphological process (co-listed in HS) – Posters

Convener: Kirkby, M.
Co-Convener(s): Govers, G.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

A0220; EGU2008-A-00676; GM4.2-1FR3P-0220

Trieu, Q
Bank erosion processes in Mekong river

A0221; EGU2008-A-01985; GM4.2-1FR3P-0221

Bänninger, D.; Konz, N.; Meusburger, K.; Alewell, C.
Modeling soil erosion for a Swiss Alpine Valley

A0222; EGU2008-A-02630; GM4.2-1FR3P-0222

Thapa, P.K.; Bardossy, A.
Predicting spatial patterns of catchment erosion and estimation of erosion risk using simple modeling approach applicable in data-scarce conditions

A0223; EGU2008-A-03762; GM4.2-1FR3P-0223

Mirzaei, M.R.; Ziarati, T.; Gaudu, J.C.; Ruy, S.
Evaluation of the precision of close-range photogrammetry to assess DEM of the soil surface

A0224; EGU2008-A-05841; GM4.2-1FR3P-0224

Borges, P.; Andrade, C.; Fontiela, J.; Freitas, M.C.
Sand beaches and soil erosion in São Miguel island (Azores - Portugal)

A0225; EGU2008-A-06427; GM4.2-1FR3P-0225

Wakiyama, Y.; Onda, Y; Nanko, K; Mizugaki, S; Kim, Y; Kitahara, H; Ono, H
Temporal variations of rain splash at the forest floor of Japanese cypress plantations

A0226; EGU2008-A-07823; GM4.2-1FR3P-0226

Lesschen, J.P.; Cammeraat, L.H.; Meerkerk, A.L.; Van Wesemael, B.
Upscaling vegetation cover for runoff and erosion modelling

IS17 - GM4.3/NH4.5 Mechanics of Mass Flows (co-organized by GM & NH)

Convener: McArdell, B.
Co-Convener(s): Lajeunesse, E., Arattano, M.
Lecture Room 18
Chairperson: N.N.

15:30–16:00; EGU2008-A-04242; IS17 - GM4.3/NH4.5-1FR4O-001

Andreotti, B.
How does a granular avalanche flow? (solicited)

16:00–16:15; EGU2008-A-01048; IS17 - GM4.3/NH4.5-1FR4O-002

Kowalski, J.; McElwaine, J.
Two-phase debris flow modeling

16:15–16:30; EGU2008-A-03680; IS17 - GM4.3/NH4.5-1FR4O-003

Pudasaini, S. P.; Kroener, C.; Miller, S. A.
Some exact solutions for debris flows on inclines and a new scaling law for settlement of Bagnold's fluids

16:30–16:45; EGU2008-A-09381; IS17 - GM4.3/NH4.5-1FR4O-004

Ghemmour, A.; Chambon, G.; Laigle, D.
Experimental modelling of debris flows using a conveyor belt channel

16:45–17:00; EGU2008-A-04527; IS17 - GM4.3/NH4.5-1FR4O-005

Luca, I.; Hutter, K.; Tai, Y.C.; Kuo, C.Y.
Topography based avalanche equations and a hierarchy of avalanche models

17:00 END OF SESSION

IS17 - GM4.3/NH4.5 Mechanics of Mass Flows (co-organized by GM & NH) – Posters

Convener: McArdell, B.
Co-Convener(s): Lajeunesse, E., Arattano, M.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

A0227; EGU2008-A-04248; IS17 - GM4.3/NH4.5-1FR3P-0227

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