



**VEERLE VANACKER – CURRICULUM VITAE (MAY08)**  
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DEPARTMENT OF GEOGRAPHY  
UNIVERSITY OF LOUVAIN  
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## PERSONAL INFORMATION

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Born: November 1976, Leuven, Belgium  
Citizenship: Belgian  
Residence: Gottignystraat 4/3, 3001 Heverlee, Belgium

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## RESEARCH INTERESTS

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Geomorphology, Fluvial morphology, Erosion processes, Land use/-cover change, <sup>10</sup>Be denudation rates, Landscape evolution, Human Impact, Remote Sensing

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## EDUCATION

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1996 B.Sc., Geography, KULeuven, Belgium (Magna cum Laude)  
1998 M.Sc., Physical Geography, KULeuven, Belgium (Magna cum Laude)  
2002 Postgraduate Advanced Study Course MODLUC, University of Louvain, Belgium  
2002 Ph.D., Geomorphology, KULeuven, Belgium  
Thesis: Geomorphic response to human-induced environmental change in tropical mountain areas; Supervisor: G. Govers, J. Poesen  
2006 CRONUS-EU Summerschool, Harkany, Hungary on ‘Cosmic ray nuclide systematics on Earth’

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## PROFESSIONAL EXPERIENCE

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2006 - now Assistant Professor in Geomorphology,  
Department of Geography, **University of Louvain**, Belgium  
2005 – now Senior Research Assistant,  
**National Science Foundation**, Belgium  
2003 - 2005 Marie Curie EU Postdoctoral Fellow in Geochemistry  
**University of Hannover**, Germany (F. von Blanckenburg); ETH-Zurich (P.W. Kubik )  
2002 - 2003 Postdoctoral Researcher, Department of Geography, **University of Louvain**, Belgium  
Laboratory for GIS and Remote Sensing (E. Lambin)  
1998 - 2002 Doctoral Fellow, **National Science Foundation**, Belgium  
Promoters: G. Govers; J. Poesen

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## STUDY VISITS

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Spring '06 **Dartmouth College, US** (A. Heimsath)  
**Massachusetts Institute of Technology (MIT), US** (K.W. Whipple)  
Tectonics and topography: study of long-term erosion patterns from passive margins (Sri Lanka), in contrast to active ranges (Ecuador)  
Field work and sampling campaign in Ecuador (Jan-June '99, Nov'99 –April'00, June-Dec'00, June-Oct'01, Dec'02, Feb-May'04, Feb-March'05), Egypt (Feb'04, Nov'05), France (May'98), Kenya (Nov'04), Peru (August '01), Spain (May'97, Dec'07), Sri Lanka (March'04), Sudan (July'05), Tanzania (Dec'03), Turkey (August '97, July '98, June '00), and Swiss Alps (July'05).

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## AWARDS, GRANTS AND HONORS

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1998 **British Council**, Scholarship for Postgraduate study, University of Edinburgh (declined)  
1998 **National Research Foundation**– Ph.D. Scholarship (4 yrs)  
2000 **Research Foundation**– Travel Grant for attending international conference in Slovakia  
2002 **Academische Stichting Leuven** – Travel Grant for attending international conference

- 2003 **EU 5th Framework**, Marie Curie Individual Postdoctoral Fellowship (2 yrs)  
 2005 **National Science Foundation**, Postdoctoral Fellowship (3 yrs)
- 2000 **Flemish Association of Geographers (VLA)**, Outstanding Graduate Student Award, 2000  
 2003 **Belgian Directorate-General for Development Cooperation**, Development Cooperation Prize for scientific work of high relevance for development co-operation
- 2007 **Research Highlight in *Nature*** (paper by Vanacker et al (2007), "Restoring dense vegetation can slow mountain erosion to near natural benchmark levels", *Geology* 35(4): 303-306).

## INTERNATIONAL PEER-REVIEWED PUBLICATIONS

### Published (in chronological order)

1. Vanacker, V., Govers, G., Tacuri, E., Poesen, J., Dercon, G., Cisneros, F., 2000. Using sequential aerial photographs to detect land use changes in the Austro Ecuatoriano, **Revue de Géographie Alpine** 3: 65-75.
2. Vanacker, V., Govers, G., Van Peer, P., Verbeek, C., Desmet, J., Reyniers, J., 2001. Using Monte Carlo simulation for the environmental analysis of small archaeological datasets, with the Mesolithic in Northeast Belgium as a case-study. **Journal of Archaeological Science** 28: 661-669.
3. Vanacker, V., Vanderschaeghe, M., Govers, G., Willems, E., Poesen, J., Deckers, J., De Bievre, B., 2003. Linking hydrological, infinite slope stability and land use change models through GIS for assessing the impact of deforestation on landslide susceptibility in High Andean watersheds. **Geomorphology** 52: 299-315.
4. Vanacker, V., Govers, G., Barros, S., Poesen, J., Deckers, J., 2003. The effect of short-term socio-economic and demographic changes on landuse dynamics and its corresponding geomorphic response with relation to water erosion in a tropical mountainous catchment, Ecuador, **Landscape Ecology** 18: 1-15.
5. Vanacker, V., Govers, G., Poesen, J., Deckers, J., Dercon, G., Loaiza, G., 2003. The impact of environmental change on the intensity and spatial pattern of water erosion in a semi-arid mountainous environment, **Catena** 51: 329 - 347.
6. Bakker, M., Govers, G., Kosmas, C., Vanacker, V., van Oost, K., and Rounsevell, M., 2005. Soil erosion as driver of land use change. **Agriculture, Ecosystems and Environment** 105: 467-481. DOI:10.1016/j.agee.2004.07.009
7. Van Den Eeckhout, M., Poesen, J., Verstraeten, G., Vanacker, V., Moeyersons, J., Nyssen, J., van Beek, L.P.H., 2005. The effectiveness of hillshade maps and expert knowledge in mapping old deep-seated landslides. **Geomorphology**, 67: 351-363. DOI:10.1016/j.geomorph.2004.11.001
8. Vanacker, V., Molina, A., Govers, G., Van Esch, L., Poesen, J., Dercon, G. And Deckers, J., 2005. River channel response to short-term human-induced change in landscape connectivity in Andean ecosystems. **Geomorphology**, 72: 340-353. DOI:10.1016/j.geomorph.2005.05.013
9. Vanacker, V., Linderman, M., Lupo, F., Lambin, E.F., Flasse, S., 2005. Interpretation of global vegetation dynamics by analysing change in vegetation index data in response to inter- and intra-annual climate fluctuations. **Global Ecology and Biogeography** 14: 123- 135.
10. Vanacker, V., von Blanckenburg, F., Hewawasam, T., Kubik, P.W., 2007. Geomorphic development of the Sri Lanka Central Highlands. **Earth and Planetary Science Letters** 253: 402-414. DOI:10.1016/j.epsl.2006.11.003
11. Van Den Eeckhout, M., Poesen, J., Verstraeten, G., Vanacker, V., Moeyersons, J., Nyssen, J., van Beek, L.P.H., Vandekerckhove, L., 2007. Use of LIDAR-derived images for mapping old landslides under forest. **Earth Surface Processes and Landforms** 32: 754-769. DOI: 10.1002/esp.1417
12. Vanacker, V., Govers, G., 2007 Editorial: Introduction to Land Use Change and Geomorphic, Soil and Water Processes in Tropical Mountain Areas. **Geomorphology** 87: 1-3. DOI:10.1016/j.geomorph.2006.06.038
13. Vanacker, V., Govers, G., Molina, A., Poesen, J., Deckers, J., 2007. Spatial variation of suspended sediment concentration in a tropical Andean river system: the Paute River, southern Ecuador. **Geomorphology** 87: 53-67. DOI:10.1016/j.geomorph.2006.06.042

14. Vanacker, V., von Blanckenburg, F., Govers, G., Molina, A., Poesen, J., Deckers, J., Kubik, P., 2007. Restoring natural vegetation reverts mountain erosion to natural levels. **Geology** 35: 303-306. DOI: 10.1130/G23109A
15. Lupo, F., Linderman, M., Vanacker, V., Bartholome, E., and Lambin, E., 2007. Categorization of land-cover change processes based on phenological indicators extracted from time series of vegetation index data. **International Journal of Remote Sensing** 28: 2469-2483. DOI: 10.1080/01431160600921943
16. Molina, A., Govers, G., Vanacker, V., Poesen, J., Zeelmaekers, E., and Cisneros, F., 2007. Impact of vegetation on runoff generation on mountain slopes. **Catena** 71: 357-370. DOI:10.1016/j.catena.2007.04.002
17. Vanacker V, von Blanckenburg F, Govers G and Kubik PW, 2007. Transient landscape evolution following uplift in the Southern Ecuadorian Andes. **Geochimica and Cosmogenica Acta** 71: A1052.

#### In press

1. Molina, A., Govers, G., Poesen, J., Van Hemelryck, H., De Bievre, B., Vanacker, V. Environmental Variables Controlling Spatial Variation in Sediment Yield in a Central Andean Mountain Area. **Geomorphology** DOI:10.1016/j.geomorph.2006.12.025.
2. Vandenbergh, J., and Vanacker, V., Editorial: Towards a system approach in the study of river catchments. **Geomorphology**. DOI:10.1016/j.geomorph.2007.01.025.
3. Norton KP, and Vanacker V, Effect of terrain smoothing on topographic shielding correction factors for cosmogenic nuclide derived estimates of basin-averaged erosion rates. *Earth Surface Processes and Landforms*.

#### In Review

1. Molina A, Govers G, Vanacker V and Cisneros F. Effectiveness of vegetation for sediment deposition and storage in gully beds in degraded Andean Environments. *Earth Surface Processes and Landforms*.

### BOOK CHAPTERS

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Vanacker, V., Govers, G., Van Peer, P., 2001. Environmental control on mesolithic location behaviour in the north-east of Belgium. In: T. Darvill and M. Gojda (Eds.), *One Land, many Landscapes*, British Archaeological reports No. 987, Archaeopress, Oxford.

### PUBLICATIONS IN NON-PEER REVIEWED JOURNALS

- 
1. Vanacker, V., Govers, G., Van Peer, P., 2000. Ruimtelijke modellering van de relatie tussen fysieke landschapskenmerken en het Mesolithisch nederzettingenspatroon in de Antwerpse Noorderkempen, *De Aardrijkskunde*, 3: 33-41.
  2. Vanacker, V., Govers, G., Tacuri, E., Poesen, J., Dercon, G., Cisneros, F., Deckers, J. 2001. Utilización de fotografías aéreas secuenciales para detectar cambios del uso de la tierra en el Austro Ecuatoriano. *Agua, Suelo, Tecnologías*, 2 , pp. 91-102.
  3. Vanderschaeghe, M., Vanacker, V., Govers, G., Poesen, J., 2001. Typering en modellering van massatransport in een klein bekken van de Hoge Ecuatoriaanse Andes (Sta. Ana, Cuenca, Ecuador). *De Aardrijkskunde*, 4: 25-35.
  4. Vanacker, V., 2004. De kapbijl regeert al eeuwenlang. **Karakter**, Tijdschrift van de Academische Stichting Leuven, 7: 22-24.

### CONFERENCE ABSTRACTS INTERNATIONAL CONFERENCES

#### Published :

- Bellin N, van Wesemael B, Meerkerk A, Vanacker V, and Barbera GG, 2008. The Decay of Soil and Water Conservation Structures in southeast Spain increases Connectivity between the Cropland and the Fluvial System. *Geophysical Research Abstract*, Vol. 10, EGU2008-A-08543, 2008
- Sougnéz N, Vanacker V, and van Wesemael B, 2008. Low Modern Erosion Rates observed in Steep, Sparsely Vegetated Mountain Ranges in southeast Spain *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-08904, 2008.
- Vanacker V, Govers G, von Blanckenburg F, and Kubik PW, 2008. Quantification of the Transient Behaviour of Rivers draining the Southern Ecuadorian Andes. *Geophysical Research Abstracts*, Vol. 10, EGU2008-A-06134, 2007.

- Molina A, Govers G, Vanacker V, Poesen J, Zeelmaekers E, Cisneros F, 2007. Role of land use/-cover in controlling runoff generation on mountain slopes. *Geophysical Research Abstracts*, Vol. 9, 05056, 2007.
- Vanacker, V., Von Blanckenburg, F., Hewawasam, T., and Kubik, P., 2006. TI: Constraining Models of Development of the Sri Lankan Escarpment Using Cosmogenic Nuclide Data on River Sediment. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract H13E-1438.
- Vanacker, V. Von Blanckenburg, F., Govers, G., Molina, A., Poesen, J., Deckers, J., and Kubik, P., Using cosmogenic nuclides to assess the geomorphic response to human impact in tropical highlands. In: J.Poesen, J.Deckers, Mitiku Haile, J.Nyssen, and S. Bruneel (Eds.), 2006. *Highland Symposium on environmental change, geomorphic processes, land degradation and rehabilitation in tropical and subtropical highlands*. Mekelle, Ethiopia, 19-25 September 2006. Book of abstracts.
- Von Blanckenburg, F., Vanacker, V., Hewawasam, T., and Kubik, P., 2005. Constraining soil erosion mitigation using cosmogenic nuclides in river sediment. *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract U32A-06.
- Vanacker, V., Molina, A., Govers, G., Poesen, J., Deckers, S., von Blanckenburg, F., 2005. River channel response to historical land use changes in Andean ecosystems. In: H. Haas, K.Ramseyer, F.Schlunegger (Eds.) *Sediment 2005. Schriftenreihe der Deutschen Gesellschaft für Geowissenschaften. Heft 38*. ISBN: 3-932537-33-5.
- Vanacker, V., Govers, G., Molina, A., Kubik, P., von Blanckenburg, F., 2005. The impact of human-induced environmental change on sediment production, transport and delivery in large mountain catchments. In: H. Haas, K.Ramseyer, F.Schlunegger (Eds.) *Sediment 2005. Schriftenreihe der Deutschen Gesellschaft für Geowissenschaften. Heft 38*. ISBN: 3-932537-33-5.
- Vanacker, V., Govers, G., van Hemelryck, H., Molina, A., Kubik, P., von Blanckenburg, F., 2005. How do Humans Affect Geomorphic Process Rates in Tropical Mountain Areas? *Geophysical Research Abstracts*, Vol. 7, 01821, 2005.
- Govers, G., Vanacker, V., De Bièvre, B., Cisneros, F., Molina, A., Deckers, J., Poesen, J., 2005. Geomorphic response to land use change of tropical mountain areas: can analogies help us in prediction and remediation ? *Geophysical Research Abstracts*, Vol. 7, 05646, 2005
- Vanacker, V., Van Hemelryck, H., Pacheco, E., De Bievre, B., Molina, A., Poesen, J., Deckers, S., Govers, G., 2004. Assessing sediment production in degraded areas using gabion infillings. Proceedings of the *Second international symposium on land use change and soil and water processes in tropical mountain environments*, 14-17 December 2004, Luang Phrabang, Lao PDR.
- Linderman, M., Lupo, F., Vanacker, V., Wannebo, A., Serneels, S., Benz, D., Swinnen, E., Rowhani, P., Lambin, E.F., 2004. Analyzing Land Cover/Land Use Change using Coarse Resolution Imagery. Proceedings of the *Second International SPOT/VEGETATTON Users Conference*. 24-26 March 2004, Antwerp, Belgium.
- Swinnen, E., Van Speybroek, D., Eerens, H., Veroustraete, F., Lhermitte, S., Nackaerts, K., Verbesselt, J., Coppin, P., Benz, D., Lupo, F., Rowhani, P., Vanacker, V., Wannebo, A., Lambin, E.F., 2004. GLOVEG: Centre of Excellence in Remote Sensing of Terrestrial Ecosystem Dynamics. Proceedings of the *Second International SPOT/VEGETATTON Users Conference*. 24-26 March 2004, Antwerp, Belgium.
- Lupo, F., Vanacker, V., Linderman, M., Rowhani, P., Lambin, E.F., 2004. Categorization of Land Cover Change processes based on phenological indicators extracted from temporal Vegetation Index Series. Proceedings of the *Second International SPOT/VEGETATTON Users Conference*. 24-26 March 2004, Antwerp, Belgium.
- Van den Eeckhout M, Poesen J, Verstraeten G, Vanacker V, Moeyersons J, Nyssen J and Van Beek J, 2004. How effective is the use of DEMs and expert knowledge for the mapping of old, deep-seated landslides? *Geophysical Research Abstracts*, Vol. 6, 06722, 2004.
- Vanacker, V., Govers, G., Poesen, J., Deckers, J., 2002. Spatial variation of suspended sediment concentration in a tropical Andean river system: the Río Paute, southern Ecuador. Proceedings of the *International Symposium on Land Use Change and Geomorphic, Soil and Water Processes in Tropical Mountain areas*, 16-23 December 2002.
- Van Rompaey, A., Vanacker, V., Van Esh, L., Van Oost, K., Govers, G., 2002. Changes in landscape connectivity and their impact on river regimes and sediment yield. *International Symposium on Land Use Change and Geomorphic, Soil and Water Processes in Tropical Mountain Areas*, 16-23 December 2002, Quito – Cuenca, Ecuador.
- Govers, G., Vanacker, V., Tacuri, E., Vanderschaeghe, M., Willems, E., Poesen, J., Deckers, J., 2002. Spatial modelling of the impact of deforestation on landslide susceptibility. *International Symposium on Land Use Change and Geomorphic, Soil and Water Processes in Tropical Mountain Areas*, 16-23 December 2002, Quito – Cuenca, Ecuador.
- Vanacker, V., Barros, S., Govers, G., Poesen, J., Deckers, J. 2001. *The Impact of Globalisation on Land Use Changes and the related Geomorphic Impacts in a Tropical Mountainous Catchment*. In: Proceedings of Global Change Open Science

Conference 2001. "Challenges of a Changing Earth", 10 - 13 July 2001, RAI Conference Center, Amsterdam, Netherlands.

Vanacker, V., Govers, G., Poesen, J., Deckers, J., 2000. *Dynamic modelling of the geomorphic response to land use changes for irrigated lands in a semi-arid mountainous environment*. In: Sury, M. (ed), Proceedings of The International Symposium on Geomorphic Response to Land Use Changes, Smolenice, Slovakia. p. 66.

Vanacker, V., Govers, G., Louiza, G., Dercon, G., Deckers, J., Poesen, J., 2000. *Influence of land use changes on the intensification of gully erosion in a semi-arid mountainous environment*, International Symposium on Gully Erosion under Global Change, april 2000, Leuven, Belgium.

Vanacker, V., Govers, G., Van Peer, P. 1999. *Environmental controls on Mesolithic locational behaviour in the north-east of Belgium*. European Association of Archaeologists, 5th annual meeting, 14th-19th September 1999, Bournemouth.

### **Unpublished**

Vanacker V., 2007. Compilation of data on assessment of soil degradation in Nile basin countries. *International Workshop of the UNESCO Fit project*, October 2007, Khartoum, Sudan

Vanacker, V., von Blanckenburg, F., Hewawasam, T., and Kubik, P., 2006. Constraining escarpment erosion and landscape development of the Central Highlands of Sri Lanka. Cronus EU Summerschool 12-17 June 2006, Harkany, Hungary.

Vanacker V., 2005. Sediment transport modeling in the Nile basin: the way forward. *International Workshop of the UNESCO Fit project*, July 2005, Khartoum, Sudan.

Ahmed, A.A., El-Sersawy, H., Vanacker, V., Ismail, U.H., 2005. Nile River sediment modeling: challenges and opportunities. *International Conference of the UNESCO FIT project*, November 2005, Sharm el Sjeik, Egypt.

Golla, S., El-Sersawy, H., Ahmed, A.A., Vanacker, V., 2005. Modelling water and sediment fluxes in steep river channels: Case of Awash basin. *International Conference of the UNESCO FIT project*, November 2005, Sharm el Sjeik, Egypt.

Mwanuzi, F., and Vanacker, V., 2005. Comparison of two different transport models to predict sediment transport: Simiyu River, Tanzania, as a case study. *International Conference of the UNESCO FIT project*, November 2005, Sharm el Sjeik, Egypt.

Vanacker V, 2004. Watershed erosion modeling. *International Workshop of the UNESCO Fit project*, November 2004, Nairobi, Kenya.

Vanacker V, 2004. Identification and monitoring of sources of sediment production. *International Workshop of the UNESCO Fit project*, June 2004, Alexandria, Egypt.

Vanacker, V., Linderman, M., Lupo, F., Lambin, E., 2003. Validation of land cover change products. *GOFC-GOLD "Global Land Cover Validation Workshop"*. 27-28 March 2003, Ispra, Italy.

Vanacker V, 2003. Geomorphic response modeling to land use change. . *International Workshop of the UNESCO Fit project*, December 2003, Dar es Salaam, Tanzania.

Vanacker V., Tacuri E, Vanderschaeghe M, Govers G, Poesen J and Deckers J, 2002. Spatial modelling of the impact of deforestation on shallow landslide susceptibility. November 2002, MODLUC EU Course, University of Louvain, Belgium.

Vanacker, V., Govers, G., Poesen, J., Deckers, J., 2001. *Modelización espacial de la relación entre los cambios ambientales y los procesos geomorfológicos en una cuenca montañosa*. Proceedings of the Workshop "Challenges of integrated mountain watershed management", 21-22 august, Lima, Peru.

### **CONFERENCE ABSTRACTS LOCAL OR NATIONAL CONFERENCES**

Bellin N, van Wesemael B, Meerkerk A, Vanacker V. and Barbera GG, 2008. The Decay of Soil and Water Conservation Structures in southeast Spain increases Connectivity between the Cropland and the Fluvial System. Day of Young Soil Scientists, Feb 28 2008. Brussels, Belgium.

Sougnez N, Vanacker V. and van Wesemael B, 2008. Low Modern Erosion Rates observed in Steep, Sparsely Vegetated Mountain Ranges in southeast Spain. Day of Young Soil Scientists, Feb 28 2008. Brussels, Belgium.

Vanacker, V., Vanderschaeghe, M., Govers, G., Willems, E., Poesen, J., Deckers, J, De Bievre, B., 2005. Linking geomorphological and land use change models for assessing the impact of deforestation on slope stability in High Andean watersheds. April 22, 2005. Wageningen, the Netherlands. PE&RC Symposium. Advances in Landslide Research: on-site and off-site effects

Vanacker, V., Govers, G., Poesen, J., Deckers, J. *Using the spatial variability of suspended sediment yield in small mountainous catchments to determine the controlling biophysical factors for soil erosion on a regional scale*. In: Proceedings of ICG-Promovendidad 2001. "Scale Issues in Geo-Ecological Research". Utrecht University, 14 March 2001.

Vanacker, V., Molina, A., Govers, G., Poesen, J., Dercon, G., Deckers, J. *Una metodología sencilla para cuantificar los cambios geomorfológicos relacionados con las alternaciones ambientales. La cuenca del Rio Paute como un estudio de caso*, VII Congreso Ecuatoriano de la Ciencia del Suelo, 19-20 Octubre 2000, Quito, Ecuador.

Vanacker, V., Vermeersch, P., 1998. *Which GIS environment will be utilised to present the INQUA database at the Durban congress?* Symposium of the Working Group of the Commission on Human Evolution & Paleoecology - INQUA: European Late Pleistocene: Isotopic Stages 2 and 3: Humans, their Ecology and cultural Adaptations, Leuven, 5-7 September 1998.

Vanacker, V., Vermeersch, P.M., Demars, P.-Y., 1998. *The present state of the digital databases*. symposium of the Working Group of the Commission on Human Evolution & Paleoecology - INQUA: European Late Pleistocene: Isotopic Stages 2 and 3: Humans, their Ecology and cultural Adaptations, Leuven, 5-7 September 1998.

## THESES

Vanacker, V., 1998. Spatial modeling of Mesolithic location behaviour in the northeast of Belgium (Ruimtelijke modellering van de relatie tussen fysische landschapkenmerken en het Mesolithisch nederzettingpatroon in de Antwerpse Noorderkempen). Unpublished M.Sc. thesis, Faculty of Science, KU Leuven, Belgium.

Vanacker, V., 2002. *Geomorphic response to short-term human-induced land use changes in tropical mountain areas, Ecuador*. Unpublished Ph.D. thesis, Faculty of Science, KU Leuven, Belgium.

## CURRENT AND RECENT FUNDING

- 
- 2008 Commission universitaire pour le développement (CUD, 401k€). Improving water resource planning at the scale of micro-dam catchments in Tigray, Northern Ethiopia: learning from success and failure. P.I.s: van Wesemael, Poesen, Hallet, Deckers, Vanacker
- 2007 University of Louvain, Fonds Spécial de la Recherche. Landscape response to tectonic uplift and climate variability across the Ardenne Massif on a timescale of  $10^3$  to  $10^6$  years (90k€). Sole PI: Vanacker
- 2007 National Science Foundation (20k€). Quantification of the impact of historical land use change on the temporal evolution of erosion in southeast Spain during the Holocene, using a novel interdisciplinary approach. Sole PI: Vanacker
- 2006 National Science Foundation (FNRS, 10k€). Quantitative analysis of the effect of human-induced land use/-cover change on the rate and spatial pattern of desertification. Sole PI: V.Vanacker
- 2005 E.U. 6<sup>th</sup> Framework – Marie Curie ERG Grant (40k€). Quantitative analysis of the effect of human-induced land use/-cover change on the rate and spatial pattern of desertification. Sole PI: V.Vanacker
- 2003 E.U. E.U. 5<sup>th</sup> Framework – Marie Curie Grant (28,8k€ lab running costs). Quantification of the effect of human-induced environmental change on geomorphic activity in tropical mountains. P.I.s: von Blanckenburg, V.Vanacker
- 2003 Flemish Interuniversity Council (16,8k€). VLIR-South Initiative: Participatory Discussion and Experimentation Platform for bridging the gap between academic research and stakeholders. University of Cuenca, Ecuador. P.I.: J.Deckers, V.Vanacker
- 2000 Empresa Publica Municipal de Telecomunicaciones, Agua Potable y Alcantarillado del Canton Cuenca (ETAPA, 8,5k€). Dinámica de uso del suelo en la cuenca hidrográfica del río Machángara en los últimos 40 años. P.I.s: V.Vanacker, S. Barros
- 2000 National Science Foundation (FWO, 6k€). Individual Mobility Allowance for research on land use change and erosion in Ecuadorian Andes. Sole P.I.: V.Vanacker

## INVITED LECTURES AND PRESENTATIONS

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- 2008 MYRES 2008, New Orleans, May 2008. Dynamic Interactions of Life and its Landscape. *Invited presentation*
- 2005 Fall AGU 2005, San Francisco, Constraining Soil Erosion Mitigation Using Cosmogenic Nuclides, *Invited presentation (von Blanckenburg)*.

- 2005 Department of Geology and Geography, KULeuven, Belgium, *Invited Lecture for Advance Course on Geomorphology*
- 2005 PE&RC Symposium. Advances in Landslide Research: on-site and off-site effects, *Invited presentation*
- 2004 Department of Soil Sciences, University Hannover, *Invited Lecture*
- 2001 CGIAR-CIP Workshop on Challenges of integrated mountain watershed management, *Invited presentation*
- 2001 Royal Academy for Sciences and Arts of Belgium. Forum 'Cartography, GIS and the third dimension', Subcomité Cartography and GIS, *Invited presentation.*
- 2001 FLAGIS, Flemish Association for Geographical Information Systems, *Invited presentation.*

## PROFESSIONAL AFFILIATIONS

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- 2000 - Member of CONDESAN, Consorcio para el Desarrollo Sostenible de la Region Andina
- 2001 - Member of the International Association of Geomorphologists
- 2001 - Member of the Academische Stichting Leuven
- 2002 - Member of the Belgian Soil Science Society

## SERVICES

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### International Technical Assistance

- 2002 - Flemish counterpart of the FRIEND/NILE basin project of UNESCO FIT Fund. Component Sediment Transport and Watershed Management.
- 2005 Technical Expert in Soil Erosion Processes of the EU financed International Project on: Integrated Development of the Paute River Basin. Consejo de Programacion de Obras de Emergencia, Cuenca, Ecuador
- 2003 Technical Expert in Fluvimorphology for the implementation of a new water purification plant in Cuenca by the Empresa Municipal de Telecomunicaciones, Agua Potable y Alcantarillado.

### Editorial and Professional Society Service

- 2008 Guest co-Editor of Geomorphology Special Issue on 'Climatic and Human Impact on Soil Erosion and Fluvial Activity' (in Press)
- 2005 Guest co-Editor of Geomorphology Special Issue on 'Land Use Change and Geomorphic, Soil and Water Processes in Tropical Mountain Areas' (Geomorphology 2007)
- 2005 EGU 2005 (European Geosciences Union) Annual Meeting Symposium. Co-Convenor on "How humans affect geomorphological processes?"
- 2002 Field trip leader of the International Conference on Land Use Change and Geomorphic, Soil and Water Processes in Tropical Mountain areas, Ecuador.
- 2002 Member of the international Scientific Committee of the International Symposium on Land Use Change and Geomorphic, Soil and Water Processes in Tropical Mountain areas, Ecuador, 16-23 December 2002.
- 2007 - Member of the Board of the Belgian Soil Science Society
- 2000 - Regular Referee for *Geomorphology*, *CATENA*, *Soil Use and Management*, *Landscape Ecology*, *Agriculture, Ecosystems and Environment*, *Applied Geography*, *IJRS*.

## LANGUAGES

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Dutch	Mother Tongue
English	Excellent
Spanish	Excellent
French	Good
German	Basic