

## RECENT PUBLICATIONS BY ESSC MEMBERS

Below are the citation details of papers and books produced by ESSC members. This is providing a growing resource for exchange of valuable information to both research and teaching. Students of ESSC members (both undergraduate and postgraduate) are increasingly accessing this facility in their literature searches. Please e-mail the citation details of papers in international refereed journals since and including the year 2000 to any member of the Editorial team.

The citation details of Ph.D. theses by ESSC members since and including 2004 have been added as an additional page to the ESSC web site. To date, 52 Doctoral theses are quoted. On the ESSC web site, please look under 'Publications.' Please forward the citation details of any additional Ph.D. (or Dr Hab. or D.Sc.) thesis completed since 2000 by an ESSC member to any of the Editorial team. We will then add the thesis citation details to the web site.

### PAPERS

Aerts, R., Maes, W., November, E., Behailu, M., Poesen, J., Deckers, J., Hermy, M. and Muys, B. (2005). Surface runoff and seed trapping efficiency of shrubs in a regenerating semiarid woodland in northern Ethiopia. *Catena* 65, 61-70.

Ágústsdóttir, A.M., Bragason, A. and Arnalds, A. (2007). Can Iceland become a carbon neutral country by reducing emissions and restoring degraded land? *Soils, Society and Global Change, Selfoss, Iceland*, 142-146.

Al Karkouri, J., Laouina, A., Roose, E. et Sabir, M. (2001). Capacité d'infiltration et risques d'érosion des sols dans la vallée des Béni Bouffrah, Rif Central, Maroc. *Bull. Réseau Erosion* 20, 342-356.

Amore, E., Modica, C., Nearing, M.A. and Santoro, V.C. (2004). Scale effect in USLE and WEPP application for soil erosion computation from three Sicilian basins. *Journal of Hydrology* 293, 100-114.

Ampoorter, E., Goris, R., Cornelis, W.M. and Verheyen, K. (2007). Impact of mechanized logging on compaction of sandy forest soils. *Forest Ecology and Management* 241, 174-192.

Andrenelli, M.C., Magini, S., Pellegrini, S., Perria, R., Vignozzi, N. and Costantini, E.A.C. (2013). The use of the ARP© system to reduce the costs of soil survey for precision viticulture. *Journal of Applied Geophysics* 99, 24-34.  
DOI: 10.1016/j.jappgeo.2013.09.012

Andreu, V., Ferrer, E., Rubio, J.L., Font, G. and Picó, Y. (2007). Quantitative determination of octylphenol, nonylphenol, alkylphenol ethoxylates and alcohol ethoxylates by pressurized liquid extraction and liquid chromatography-mass spectrometry in soils treated with sewage sludges. *Science of the Total Environment* 378, 124-129.

Anthopoulou, B., Panagopoulos, A. and Karyotis, T. (2006). Impact of land degradation on the landscape in Northern Greece. *Landslides* 3(4), 289-294.

Arabi, M. et Roose, E. (2004). Influences du système de production et des sols sur l'érosion en nappe, le ruissellement, le stock du sol et les pertes en C. par érosion en montagne méditerranéenne (Médéa). *Bull. Réseau Erosion* 22, 166-175.

Arabi, M., Kedaid, O., Bourougaa, L., Asla, T. et Roose, E. (2004). Bilan de l'enquête sur la défense et restauration des sols (DRS) en Algérie. *Sécheresse* 15(1), 87-95.

Arnalds, A. (2004). Desertification in a humid environment – An example from Iceland. *Encyclopaedia of Soil Science*, 6 pp.:

<http://tandfonline.com/doi/abs/10.1081/E-ESS-120016594>

Arnalds, A. (2004). Carbon sequestration and the restoration of land health. *Climate Change*, 65, 333-346.

Arnalds, A. (2005). Approaches to Landcare – a century of soil conservation in Iceland. *Land Degradation and Development* 16, 113-125.

Arnalds, A. (2005). Barriers and incentives in soil conservation – Experiences from Iceland, p. 251-259 In: *Strategies, Science and Law for the Conservation of the World Soil Resources*. Agricultural University of Iceland Publication No. 4.

Arnalds, A. (2007). Policy lessons from a century of soil conservation in Iceland, p. 100-106 In: C. King, H. Bigas and Z. Adeel (Eds), *Desertification and the International Policy Imperative*. UNU-INWEH Publication.

Arnalds, A. and Runólfsson, S. (2009). Iceland's century of conservation and restoration of soils and vegetation, p. 70-74 In: H. Bigas, G.I. Gudbrandsson, L. Montanarella and A. Arnalds (Eds) *Soils, Society and Global Change*. Soil Conservation Service of Iceland.

Arnalds, A. (2011). Farmers heal the land: a social licence for agriculture in Iceland, p. 83-92 In: P. Martin and J. Williams (Eds) *Defending the Social Licence of Farming*. CSIRO, Canberra, Australia.

Andrenelli, M.C., Magini, S., Pellegrini, S., Perria, R., Vignozzi, N. and Costantini, E.A.C. (2013). The use of the ARP© system to reduce the costs of soil survey for precision viticulture. *Journal of Applied Geophysics* 99, 24-34.

DOI: 10.1016/j.jappgeo.2013.09.012

Auzet, A.V., Poesen, J. and Valentin, C. (2001). Soil patterns as a key controlling factor of soil erosion by water. *Catena* 46(2-3), 85-87.

Auzet, V., Poesen, J. and Valentin, C. (2004). Soil surface characteristics: dynamics and impact on soil erosion. *Earth Surface Processes and Landforms* 29(9), 1063-1169.

Awokola, O.S., Coker, A.O., Fullen, M.A. and Booth, C.A. (2009). Use of limited hydrological data and mathematical parameters for catchment regionalization: A case study of the Osun drainage basin, Nigeria. *Aquaterra (Journal of African Water Resources and Environment)* 3(1), 13-22.

Bakos, K., Barczi, A., Vona, M., Evelpidou, N. and Centeri, C. (2008). Potential effects of land use change around the Inner Lake in Tihany, Hungary – examination of geology, pedology and plant cover/land use interrelations. *Cereal Research Communications (Supplement)* 36, 143-146.

Bakšienė, E., Fullen, M.A. and Booth, C.A. (2006). Agricultural soil properties and crop production on Lithuanian sandy and loamy Cambisols after the application of calcareous saptopel fertilizer. *Archives of Agronomy and Soil Science* 52(2), 201-206.

Barczi, A., Ángyán, J., Podmaniczky, L., Pirkó, B., Joó, K., Centeri, Cs., Grónás, V., Vona, M. and Pető, Á. (2008). Suggested landscape and agri-environmental condition assessment. *Tájökológiai Lapok (Hungarian Journal of Landscape Ecology)* 6(1), 77-94. (ISSN: 1589-4673) (In Hungarian with English abstract).

Barthès, B. et Roose, E. (2001). La stabilité de l'agrégation, un indicateur de la sensibilité des sols au ruissellement et à l'érosion: validation à plusieurs échelles. *Cahiers Agricultures* 10, 185-193.

Barthès, B. and Roose, E. (2002). Aggregate stability as an indicator of soil susceptibility to runoff and erosion: validation at several levels. *Catena* 47, 133-149.

Barton, A.P., Fullen, M.A., Mitchell, D.J., Hocking, T.J., Liu Liguang, Wu Bo Zhi, Zheng Yi and Xia Zheng Yuan (2004). Effects of soil conservation measures on erosion rates and crop productivity on subtropical Ultisols in Yunnan Province, China. *Agriculture, Ecosystems & Environment* 104, 343-357.

Bauer, Th. and Strauss, P. (2014). A rule-based image analysis approach for calculating residues and vegetation cover under field conditions. *Catena* 113, 363-369.

Baumann, F., He, J.-S., Schmidt, K., Kühn, P. and Scholten, T. (2009). Pedogenesis, permafrost, and soil moisture as controlling factors for soil nitrogen and carbon contents across the Tibetan Plateau. *Global Change Biology* 15, 3001-3017.  
DOI: 10.1111/j.1365-2486.2009.01953.x

Bazzoffi, P., Calzolari, C., Costantini, E.A.C., Pellegrini, S., Torri D., Borselli, L., Del Sette, M., Sanchis, P.S., Ungano, F., Yanez, M.S., Busoni, E. and Monaci, F. (2004). Field trip guide to Val d'Orcia, 27 March 2003, p. 585-610 In: R. Francaviglia (Ed.) *Agricultural Impacts on Soil erosion and Soil Biodiversity: Developing Indicators for Policy Analysis*. Proceedings from an OECD Experts Meeting. Istituto Sperimentale per la Nutrizione delle Piante (ISNP), Rome, Italy.

Bazzoffi, P. (2008). Soil erosion tolerance and water runoff control: minimum environmental standards. In: R. Simoncini, R. De Groot and T.P. Correia (Eds) *An Integrated Approach to Assess Options for Multi-functional Use of Rural Areas*. Special Issue of Regional Environmental Change. Springer.  
DOI: 10.1007/s10113-008-0046-8 and available at:  
<http://www.springerlink.com/content/w4xj1m4515213164/>

Behrens, T., Förster, H., Scholten, T., Steinrücken, U., Spies, E.-D. and Goldschmitt, M. (2005). Digital soil mapping using artificial neural networks. *Journal of Plant Nutrition and Soil Science* 168, 1-13.

Behrens, T. and Scholten, T. (2006). Digital soil mapping in Germany – a review. *Journal of Plant Nutrition and Soil Science* 169(3), 434-443.

Behrens, T., Schneider, O., Lösel, G., Scholten, T., Hennings, V., Felix-Henningsen, P. and Hartwich, R. (2009). Analysis on pedodiversity and spatial subset representativity of large scale soil maps – The German soil map 1:1,000,000. *Journal of Plant Nutrition and Soil Science* 172(1), 91-100.

Behrens, T., Schmidt, K., Zhu, A-X. and Scholten, T. (2010). Topography revisited – the ConMap approach for terrain based digital soil mapping. *European Journal of Soil Science* 61, 133-143. DOI: 10.1111/j.1365-2389.2009.01205.x

Behrens, T., Zhu, A-X., Schmidt, K and Scholten, T. (2010). Multi-scale digital terrain analysis and feature selection for digital soil mapping. *Geoderma* 155, 175-185.  
DOI: 10.1016/j.geoderma.2009.07.010

Belényesi, M., Centeri, Cs. and Grónás, V. (2002). A térinformatika alkalmazásának lehetőségei a fenntartható földhasználat tervezésben (Potential use of GIS in sustainable land use planning). *Acta Agraria Kaposvariensis* 6(3), 185-194. (In Hungarian with English abstract).

Bep Aziem, B., Boli, B.Z. et Roose, E. (2004). Influence du labour, du fumier et de l'âge de la défriche sur le stock de C. du sol et les pertes de C. par érosion et drainage dans une rotation intensive coton-maïs sur un sol ferrugineux sableux du Nord Cameroun (Mbissiri). *Bull Réseau Erosion* 22, 176-192.

Beuselinck, L., Hairsine, P.B., Govers, G. and Poesen, J. (2002). Evaluating a single-class net deposition equation in overland flow conditions. *Water Resources Research* 38(7), 15-10.

Bhattacharyya, R., Davies, K., Fullen, M.A. and Booth, C.A. (2008). Effects of palm-mat geotextiles on the conservation of loamy sand soils in East Shropshire, UK. *Advances in GeoEcology* 39, 527-538.

Bhattacharyya, R., Fullen, M.A. and Booth, C.A. (2009). Utilizing palm-leaf geotextile mats to conserve loamy sand soil in the United Kingdom. *Agriculture, Ecosystems and Environment* 130(1-2), 50-58.

Bhattacharyya, R., Fullen, M.A., Davis, K. and Booth, C.A. (2010). Use of palm-mat geotextiles for rainsplash erosion control. *Geomorphology* 119, 52-61.

Bhattacharyya, R., Smets, T., Fullen, M.A., Poesen, J. and Booth, C.A. (2010). Effectiveness of geotextiles in reducing runoff and soil loss. *Catena* 81, 184-195.

Bhattacharyya, R., Fullen, M.A., Booth, C.A., Smets, T., Poesen, J. and Black, A. (2011). Use of palm-mat geotextiles for soil conservation. I. Effects on soil properties. *Catena* 84, 99-107.

Bhattacharyya, R., Fullen, M.A. and Booth, C.A. (2011). Using palm-mat geotextiles on an arable soil for water erosion control in the UK. *Earth Surface Processes and Landforms* 36, 933-945.

Bhattacharyya, R., Fullen, M.A., Booth, C.A., Kertész, A., Tóth, A., Szalai, Z., Jakab, G., Kozma, K., Jankauskas, B., Jankauskiene, G., Bühmann, C., Paterson, G., Mulibana, E., Nell, J.P., van der Merwe, G.M.E., Guerra, A.J.T., Mendonça, J.K.S., Guerra, T.T., Sathler, R., Bezerra, J.F.R., Peres, S.M., Zheng Yi, Li Yongmei, Tang Li, Panomtarachichigul, M., Peukrai, S., Dao Chau Thu, Tran Huu Cuong and Truong Thi Toan (2011). Effectiveness of biological geotextiles for soil and water conservation in different agro-environments. *Land Degradation and Development* 22, 495-504.

Bhattacharyya, R., Zheng Yi, Li Yongmei, Tang Li, Panomtaranichagu, M., Peukrai, S., Dao Chau Thu, Tran Huu Cuong, Truong Thi Toan, Jankauskas, B., Jankauskiene, G., Fullen, M.A., Subedi, M. and Booth, C.A. (2012). Effects of biological geotextiles on aboveground biomass production in selected agro-ecosystems. *Field Crops Research* 126, 23-36.

Bhattacharyya, R., Fullen, M.A., Booth, C.A., Black, A.W. and Townrow, D. (2013). Using palm-mat geotextiles for soil conservation: II. Effects on *in situ* soil particle size distribution and nutrient concentration. *Catena* 101, 143-156.

Bhattacharyya, R. Ghosh, B.N., Dogra, P., Mishra, P.K., Santra, P., Kumar, S., Fullen, M.A., Mandal, U.K., Anil, K.S., Lalitha, M., Sarkar, D., Mukhopadhyay, D., Das, K., Pal, M., Yadav, R., Chaudhary, V.P. and Parmar, B. (2016). Soil conservation issues in India. *Sustainability* 8, 565 (37 pp.); DOI 10.3390/su8060565

Available at: [www.mdpi.com/journal/sustainability](http://www.mdpi.com/journal/sustainability)

Blanchart, E., Albrecht, A., Brown, G., Decaens, T., Duboissetm, A., Lavelle, P., Mariani, L. and Roose, E. (2004). Effect of tropical endogeic earthworms on soil erosion. *Agriculture, Ecosystems and Environment* 104, 303-315.

Blanchart, E., Roose, E. et Khamsouk, B. (2004). Pertes en C. par érosion et drainage et variation des stocks en C. en deux ans sous différentes pratiques de culture bananière (Martinique). *Bull Réseau Erosion* 22, 95-107.

Blanchart, E., Roose, E. and Khamsouk, B. (2005). Soil carbon dynamics and losses by erosion and leaching in banana cropping systems with different practices (Nitosols, Martinique, West Indies). In: E. Roose, R. Lal, C. Feller, B. Barthès and B. Stewart (Eds) *Soil Erosion and Carbon Dynamics*. Advances in Soil Sciences, CRC Publisher, Boca Raton, USA.

Blavet, D., De Noni, G., Roose, E., Maillo, L., Laurent, J.Y. et Asseline, J. (2004). Effets des techniques culturales sur les risques de ruissellement et d'érosion en nappe sous vigne en Ardèche (France). *Bull. Réseau Erosion* 23, 489-504.

Blebea-Apostu, A.M., Radulescu, I., Margineanu, R., Ionita, I. and Popescu I.V. (2012). Assessment of sedimentation rate through the use of anthropogenic <sup>137</sup>Cs radionuclide. *Romanian Reports in Physics* 64(1), 211-220. (ISSN: 1221-1451-43-822).

Blocken, B., Carmeliet, J. and Poesen, J. (2005). Numerical simulation of the wind-driven rainfall distribution over small-scale topography in space and time. *Journal of Hydrology* 315, 252-273.

Boardman, J. (2000). Soil erosion, p. 984-986 In: P.L. Hancock and B.J Skinner (Eds) *The Oxford Companion to The Earth*. Oxford University Press, Oxford.

Boardman, J. (2000). The problem of muddy floods. *Rural Property Bulletin* November/December 2000, 26-27.

Boardman, J. and Lorentz, S. (2000). The GCTE Soil Erosion Network and model evaluation studies. *South African Geographical Journal* 82(3), 154-156.

Boardman, J. (2001). Classics of physical geography revisited: Trimble, S.W. (1983). A sediment budget for Coon Creek basin in the Driftless area, Wisconsin, 1853-1977. *Progress in Physical Geography* 25(2), 263-268.























































































































































