

Annex 4 FRIEND publications 2002-2006

Northern European FRIEND

- Alcamo, J., Döll, P., Henrichs, T., Kaspar, F., Lehner, B., Rösch, T. and Siebert, S. (2003) Development and testing of the WaterGAP 2 global model of water use and availability. *Hydrol. Sci. J.*, **48**(3), 317-338.
- Archer, D.R. and Fowler, H.J. (2004) Spatial and temporal variations in precipitation in the Upper Indus Basin, global teleconnections and hydrological implications. *Hydrol. and Earth System Sciences*, **8**(1), 47-61.
- Beven, K.J. (2005a) On the concept of model structural error. *Wat. Sci. and Technol.*, in press.
- Beven, K.J. (2005b) A manifesto for the equifinality thesis. *J. Hydrol.*, in press.
- Beven, K.J. (2006) Working towards integrated environmental models of everywhere: uncertainty, data, and modelling as a learning process. *HESS*, in press.
- Blazkova, S. and Beven, K. (2002) Flood frequency estimation by continuous simulation for a catchment treated as ungauged (with uncertainty), *Wat. Resour. Res.*, **38**, No. 8, 10.1029/2001WR000500.
- Blazkova, S., Beven, K.J. and Kulasova, A. (2002a) On constraining TOPMODEL hydrograph simulations using partial saturated area information. *Hydrol. Processes*, **16**, 441-458.
- Blazkova, S., Beven, K.J., Tacheci, P. and Kulasova, A. (2002b) Testing the distributed water table predictions of TOPMODEL (allowing for uncertainty in model calibration): the death of TOPMODEL? *Wat. Resour. Res.*, **38**, No. 11, Doi: 10.1029/2001WR000912.
- Blazkova, S. and Beven, K.J. (2004) Flood frequency estimation by continuous simulation of subcatchment rainfalls and discharges with the aim of improving dam safety assessment in a large basin in the Czech Republic. *J. Hydrol.*, **292**, 153-172.
- Bower, D. and Hannah, D.M. (2002) Spatial and temporal variability in UK river flow regimes. In: *FRIEND 2002 - Regional hydrology: Bridging the gap between research and practice* (Eds: Lanen, H.A.J. van and Demuth, S.), IAHS Publ. **274**, 457-466.
- Bower D., Hannah, D.M. and McGregor, G.R. (2002) A tool for assessing the climatic sensitivity of river flow regimes. In: *Water extremes and water stress: science, policy and practice*, Proceedings of the British Hydrological Society 8th Nat. Symp., Birmingham, 49-60.
- Bower, D. (2004) Western European climate and river flow regimes. PhD thesis, University of Birmingham, UK.
- Bower, D., Hannah, D.M. and McGregor, G.R. (2004) Techniques for assessing the climatic sensitivity of river flow regimes, *Hydrol. Processes*, **18**, 2515-2543.

- Bruskova, V., Fendekova, M. and Nemethy, P. (2005) Sucasny stav ovplyvnenia povrchovych a podzemnych vod v povodi hornej Torysy (Present stage of surface and groundwater influencing in the upper part of Torysa River catchment). *Podzemna voda*, **XI** (1/2005), 49-63 (in Slovak with English resumé).
- Clausen, B., Jowett, I.G., Biggs, B.J.F. and Moeslund, B. (2004) Stream ecology and flow management. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), Dev. in Wat. Sci., **48**, Elsevier B.V., The Netherlands, 411-453.
- Cole, G.A. (2003) Hydrological drought workshop for water management organisations, La Grande Motte, 27-28 March 2003. ASHyDA Report No 2 (Report to the European Commission, EVK1-2002-80023).
- Cole, G.A. and Marsh, T.J. (2005) Major droughts in England and Wales from 1800 and evidence of impact. Report to UK Environment Agency, July 2005.
- de Araújo, J.C., Döll, P., Güntner, A., Krol, M., Beghini Rodrigues Abreu, C., Hauschild, M. and Mendiondo, E.M. (2004) Water scarcity under scenarios of global climate change and regional development in semiarid northeastern Brazil. *Wat. Intl* **29**(2), 209-220.
- Demuth, S. and Stahl, K. (2002) Climate variability and drought. *Wasser & Boden*, **54**(10), 36-40.
- Demuth, S. (2002) 4th Intl FRIEND Conf. in Cape Town, South Africa, Bridging the gap between research and practice. In: *Zeitschrift für Hydrologie und Wasserbewirtschaftung (HW)*, **46**(3), 125.
- Demuth, S. (2002) Neue Aktivitäten der FRIEND Niedrigwasserarbeitsgruppe. In: *Zeitschrift für Hydrologie und Wasserbewirtschaftung (HW)*, **46**(3), 126.
- Demuth, S. (2003) Dürren in Deutschland und Europa, *Petermans Geographische Mitteilungen*, **147**(6), 12-13.
- Demuth, S., Tallaksen, L.M. and Lanen, H.A.J. van (2003) ASTHyDA – Hydrological drought workshop for Mediterranean experts, La Grande Motte, 30-31 March 2003. ASHyDA Report No 3 (Report to the European Commission, EVK1-2002-80023).
- Demuth, S. (2004) Niedrigwasser und Dürre – eine europäische Perspektive. *HW*, **48**(4), 160-161.
- Demuth, S. (2004) Regionalisierung von Niedrigwasserkenngrößen – Methodische Ansätze und Fallbeispiele. In: *Seminar Niedrigwassermanagement am 11./12. November 2004, Koblenz, Forum für Hydrologie und Wasserbewirtschaftung, Heft 7*, 119 – 127.
- Demuth, S. and Young, A.R. (2004) Regionalization procedures. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), Dev. in Wat. Sci. **48**, Elsevier B.V., The Netherlands, 307-343.
- Demuth, S. (2005) Low flows and droughts – a European perspective. *IAHS Newsletter*, **82**, 7-8.
- Doležal, F. and Kvítek, T. (2004) The role of recharge zones, discharge zones, springs and tile drainage systems in peneplains of Central European highlands with regard to water quality generation processes. *Physics and Chemistry of the Earth*, **29**, 775-785.

- Doležal, F., Vogel, T., Císlarová, M., Dušek, J., Dohnal, M. and Štekauerová, V. (2004) Quantifying the joint effect of soil macropores and soil heterogeneity through the statistics of soil moisture heterogeneity and a model of dual permeability medium. Poster, presented at Symposium on Unsaturated zone modelling: progress, Challenges and applications, Wageningen, The Netherlands, 3-5 October, 2004.
- Doležal, F., Zavadil, J., Vacek, J., Pražák, P., Císlarová, M. and Vogel, T. (2005) The detection of preferential flow during the leaching of nitrate from the soil. (In Czech.) In: Hydrologie malého povodí 2005 (Small catchment hydrology 2005), Proceedings of an international conference on CD, Prague, 14-15 September 2005. ISBN 80-02-01754-4.
- Döll, P. (2002) Impact of climate change and variability on irrigation requirements: a global perspective. *Climatic Change*, **54**(3), 269-293.
- Döll, P. and Krol, M. (2002) Integrated scenarios of regional development in two semi-arid states of northeastern Brazil. *Integrated Assessment*, **3**(4), 308-320.
- Döll, P. and Lehner, B. (2002) Validation of a new global 30-min drainage direction map. *J. Hydrol.*, **258**(1-4), 214-231.
- Döll, P., Kaspar, F. and Lehner, B. (2003) A global hydrological model for deriving water availability indicators: model tuning and validation. *J. Hydrol.*, **270**(1-2), 105-134.
- Döll, P. and Vassolo, S. (2004) Global-scale vs. regional-scale scenario assumptions: implications for estimating future water uses in the Elbe river basin. *Regional Environmental Change*, DOI: 10.1007/s10113-004-0074-y, **4**(4), 169-181.
- Döll, P. and Flörke, M. (2005) Global-scale estimation of diffuse groundwater recharge. Frankfurt Hydrology Paper 03, Institute of Physical Geography, Frankfurt University, Germany. <http://www.geo.uni-frankfurt.de/ipg/ag/dl/publikationen/index.html>
- Ekström, M., Fowler, H.J., Kilsby, C.G. and Jones, P.D. (2005) New estimates of future changes in extreme rainfall across the UK using regional climate model integrations. 2. Future estimates and use in impact studies. *J. Hydrol.*, **300**(1-4), 234-251.
- Engeland, K., Hisdal, H. and Frigessi, A. (2004) Practical extreme value modeling of hydrological floods and droughts: a case study. *Extremes*, **7**, 5-30.
- Engeland, K., Xu, C.-Y. and Gottschalk, L. (2005) Assessing uncertainties in a conceptual water balance model using Bayesian methodology, *Hydrol. Sci. J.* **50**(1): 45-63.
- Engeland, K., Braud, I., Gottschalk, L and Lebois, E. (in press) Multi-objective regional modelling. *J. Hydrol.*
- EurAqua (2004) Towards a European drought policy: discussion document. Available at www.geo.uio.no/edc.
- Fendekova, M. (2005) O projekte FRIEND (About FRIEND Project). *Vodohospodarsky spravodajca*, **XLVIII**(9-10/2005), 29.
- Fendekova, M. and Nemethy, P. (2005) Analyza dopadu vyuzivania vodarenskych zdrojov Podzamcok a Dobra Niva na kvantitatívny stav utvarov povrchovyh a podzemnych vod. (Impact analysis of utilization of water-supply sources Podzamcok and Dobra Niva on quantitative stage of surface and groundwater bodies). In: Proceed.: Hydrological days 2005: Hydrology for integrated management of water sources (Eds: Majercakova, O., Nachazel, K. and Szolgay, J.), 256-266 (in Slovak with English abstract).

- Fendekova, M., Zenisova, Z., Nemethy, P., Fendek, M., Makisova, Z., Kupcova, S. and Flakova, R. (2005) Environmental impacts of groundwater abstractions in Neresnica brook catchment (Slovak Republic). *Environ. Geol.*, **48**, 1029-1039.
- Fleig, A. (2004) Bericht über das Northern European FRIEND & AMHY-FRIEND joint low flow meeting (Report on the Northern European FRIEND & AMHY-FRIEND joint low flow meeting). *Hydrologie und Wasserbewirtschaftung*, **48**(5), 189–191.
- Fleig, A. (2004) Hydrological drought – a comparative study using daily discharge series from around the world. MSc thesis, Institut für Hydrologie, Albert-Ludwigs-Universität Freiburg, Germany. Available at www.geo.uio.no/edc.
- Fleig, A.K., Tallaksen, L.M., Hisdal, H. and Demuth, S. (2006) A global evaluation of streamflow drought characteristics. *HESS*, **10**, 535-552.
- Fowler, H.J. and Kilsby, C.G. (2003) A regional frequency analysis of United Kingdom extreme rainfall from 1961 to 2000. *Intl J. Climatol.*, **23**(11), 1313-1334.
- Fowler, H.J. and Kilsby, C.G. (2003) Implications of changes in seasonal and annual extreme rainfall. *Geophysical Research Letters*, **30**(13), 1720, Doi:10.1029/2003GL017327.
- Fowler, H.J., Kilsby, C.G. and O’Connell, P.E. (2003) Modeling the impacts of climatic change and variability on the reliability, resilience and vulnerability of a water resource system. *Wat. Resour. Res.*, **39**(8), 1222, Doi:10.1029/2002WR001778.
- Fowler, H.J. and Archer, D.R. (2005) Hydro-climatological variability in the upper Indus basin and implications for water resources. In: *Regional hydrological impacts of climatic change – impact assessment and decision making* (Eds: Wagener, T. *et al.*), IAHS Publ. **295**, 131-138.
- Fowler, H.J., Ekström, M., Kilsby, C.G. and Jones, P.D. (2005) New estimates of future changes in extreme rainfall across the UK using regional climate model integrations. 1: Assessment of control climate. *J. Hydrol.*, **300**(1-4), 212-233.
- Gottschalk, L. and Krasovskaia, I. (2002) L-moment estimation using annual maximum (AM) and peak over threshold (POT) series in regional analysis of flood frequencies, *Norsk Geografisk Tidsskrift*, **56**(2), 179-187.
- Gottschalk, L. (2004) Time series modelling. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), Dev. in Wat. Sci. **48**, Elsevier B.V., The Netherlands, 273-306.
- Gustard, A. and Demuth, S. (2002) FRIEND: Flow Regimes from International Experimental and Network Data, IAHS Newsletter No. 75, July, 2-5.
- Gustard, A., Lanen, H.A.J. van and Tallaksen, L.M. (2004) Outlook. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), Dev. in Wat. Sci. **48**, Elsevier B.V., The Netherlands, 485-498.
- Gustard, A., Rees, H.G., Pitson, D. and Zaidman, M. (2004) Advances in drought analysis in Northern European FRIEND. Invited paper in: *Proc. Intl Conf. on Managing water resources under climatic extremes and natural disasters*, Sigatoka, Fiji, 27-28 October 2003, 3-10.
- Gustard, A., Young, A.R., Rees, G. and Holmes, G.R. (2004) Operational hydrology. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), Dev. in Wat. Sci. **48**, Elsevier B.V., The Netherlands, 455-484.

- Halldin, S., Gottschalk, L. and Gryning, S.-E. (2004) Modelling atmospheric and hydrological processes in the boreal region. In: Coupled models for the hydrological cycle. Integrating atmosphere, biosphere and pedosphere (Eds: Bronstert, A., Carrera, J., Kabat, P. and Lütke-meier, S.), Berlin-Heidelberg: Springer Verlag, 239-246.
- Hannah, D.M., Kansakar, S.R., Gerrard, A.J. and Rees, G. (2004) Linking river flow and precipitation regimes for Himalayan basins of Nepal: Assessing hydroclimatological variability and implications of climate change. In: Hydrology: science and practice for the 21st century, Proceedings of the British Hydrological Society Intl Symp., London, **I**, 38-45.
- Hannah, D.M., Kansakar, S.R. and Gerrard, A.J. (2005) Identifying potential hydrological impacts of climatic variability and change for Himalayan basins of Nepal. In: Regional hydrological impacts of climate change – impact assessment and decision making, Proceedings of Symposium S6 during the VIIth IAHS Assembly at Foz do Iguaçu, Brazil, IAHS Publ. **295**, 120-130.
- Hannah, D.M., Kansakar, S.R., Gerrard, A.J. and Rees, G. (2005) Flow regimes of Himalayan rivers of Nepal: their nature and spatial patterns, *J. Hydrol.*, **308**, 18-32.
- Herrmann, A. (2002) Integrated approaches of the ecosystematic runoff formation process on a small basin scale. *Münchener Geogr. Abh. Reihe A* **52**, 139-156.
- Herrmann, A. (2004) Runoff formation in mountainous environments and possible effects of global warming. In: Studies in Mountain Hydrology (Eds: Herrmann, A. and Schröder, U.). IHP/HWRP Berichte 2, Koblenz.
- Hisdal, H. (2002) Regional aspects of drought. PhD thesis. Faculty of Mathematics and Natural Sciences, University of Oslo, No. 221, Oslo.
- Hisdal, H., Tallaksen, L.M. and Frigessi, A. (2002) Handling non-extreme events in extreme value modelling of streamflow droughts. In: FRIEND 2002 – Regional hydrology: bridging the gap between research and practice (Eds: Lanen, H.A.J. van and Demuth, S.). IAHS Publ. **274**, 281-288.
- Hisdal, H. and Tallaksen, L.M. (2003) Estimation of regional meteorological and hydrological drought characteristics. *J. Hydrol.*, **281**, 230-247.
- Hisdal, H., Holmqvist, E., Kuusisto, E., Lindström, G. and Roald, L.A. (2004) Has streamflow changed in the Nordic countries? XXIII Nordic Hydrol. Conf., NHP-Report, 633-643.
- Hisdal, H., Tallaksen, L.M., Clausen, B., Peters, E. and Gustard, A. (2004) Hydrological drought characteristics. In: Hydrological drought – processes and estimation methods for streamflow and groundwater (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), *Dev. in Wat. Sci.*, **48**. Elsevier B.V., The Netherlands, 139-198.
- Holko, L., Herrmann, A. and Kulasová, A. (2006) Changes of runoff regime in small catchments in central Europe – are there any? In: Proc. 5th FRIEND World Conference, Water resource variability: Processes, analyses and impacts, 27 November – 1 December 2006, Havana, Cuba. IAHS Publ. **308** (in press).
- Holko, L., Kostka, Z. and Pecusova, Z. (2005) Snow cover. In: Scenarios of changes of selected components of hydrosphere and biosphere in the Hron and Vah river catchments due to climate change, Veda, Bratislava, in press.
- Jakubowski, W. (2005) Rozk ady prawdopodobie stwa ni ówek maksymalnych (Distributions of low flow maximums). *Prz. Geof. L*, **3-4**.

- Jakubowski, W. (2005) Zastosowanie uogólnionego rozkładu Pareto do wyznaczania rozkładów maksymalnych charakterystyk niówek (An application of generalized pareto distribution for maximum of the low flow indices distribution determination). *Zesz. Nauk. Akad. Roln.*, **520**, 29-41.
- Jiráček, J. (2005) Measurements of snow height and water equivalent in the Jizera Mountains. (In Czech with an English abstract). 10th annual Slovak Snow Meeting (Eds: Holko, L. and Kostka, Z.), 17-20.
- Kansakar, S.R., Hannah, D.M., Gerrard, J. and Rees, G. (2002) Flow regime characteristics of Himalayan river basins in Nepal. In: *FRIEND 2002 – Regional hydrology: bridging the gap between research and practice*, (Eds: Lanen, H.A.J. van and Demuth, S.), IAHS Publ. **274**, 425-432.
- Kansakar, S.R., Hannah, D.M., Gerrard, A.J. and Rees, G. (2004) Spatial pattern in the precipitation regimes of Nepal, *Intl J. of Climatol.*, **24**, 1645-1659.
- Kašpárek, L. and Novický, O. (2004) Metody hodnocení hydrologického sucha (Methods evaluating hydrological drought). *Vodní hospodářství (Water Management Journal)*, **2/2004**.
- Kasprzyk, A. (2005) Rola czynników fizycznogeograficznych w kształtowaniu susz hydrologicznych w Europie Środkowej (The role of physico-geographical factors in hydrological droughts creation in Middle Europe). In: *Ekstremalne zjawiska hydrologiczne i meteorologiczne*, Wyd. IMGW, Warszawa., 277-286.
- Kay, A.L., Jones, D.A., Crooks, S.M., Kjeldsen, T.R. and Fung, C.F. (in press) An investigation of site-similarity approaches to generalisation of a rainfall-runoff model. *Hydrology and Earth System Sciences*.
- Kingston, D.G., Hannah, D.M., McGregor, G.R. and Lawler, D.M. (2005) Assessing large-scale hydroclimatological variability and linkages across northwest Europe. In: *Climatic and anthropogenic impacts on the variability of water resources*, Proceedings of the UNESCO-FRIEND Intl Seminar, Montpellier, 22-24 November 2005 (in press).
- Kingston, D.G., Lawler, D.M. and McGregor, G.R. (in press) Atmospheric circulation-climate-streamflow linkages in the northern North Atlantic: research prospects, *Progress in Physical Geography*.
- Kolberg, S. and Gottschalk, L. Updating of snow depletion curve with remote sensing data, *Hydrol. Processes*. (in press).
- Kolberg, S., Rue, H. and Gottschalk, L. A Bayesian spatial assimilation scheme for snow coverage observations in a gridded snow model. *Hydrology and Earth Systems Science*. (in press).
- Kotlarski, S., Demuth, S. and Uhlenbrook, S. (2003) The impact of atmospheric circulation on regional precipitation patterns. *Intl Conf. on Hydrology of the Mediterranean and semi-arid regions*, Montpellier, 1-4 April 2003, (poster).
- Kotlarski, S., Demuth, S. and Uhlenbrook, S. (2004) Der Zusammenhang zwischen atmosphärischer Zirkulation und Niederschlag in Baden-Württemberg. *HW*, **50(6)**, 214-225.
- Krasovskaia, I. and Gottschalk, L. (2002) River flow regimes in a changing climate, *Hydrol. Sci. J.*, **47(4)**, 597-609.
- Krasovskaia, I., Gottschalk, L. and Leblais, E. (2003) Signature d'un climat en evolution dans les régimes hydrologiques de la region Rhône-Méditerranée-Corse, *L'Houille Blanche*.

- Krasovskaia, I., Gottschalk, L., Leblois, E. and Sauquet, E. (2003) Dynamics of river flow regimes viewed through attractors. *Nordic Hydrology*, **34**(5), 461-476.
- Kulasová, A. (2005) Winters in the Jizera Mountains according to the data from station Bedřichov. 10th annual Slovak Snow Meeting (Eds: Holko, L. and Kostka, Z.), 21-23.
- Kvítek, T. (ed.) (2005) Implementation of an alternative management system of soil and water protection on the landscape scale. (In Czech.) Research Institute for Soil and Water Conservation, Prague, ISBN 80-239-5350-8, 90 pp.
- Laaha, G. (2002) Modelling summer and winter droughts as a basis for estimating river low flows. In *FRIEND 2002 - Regional hydrology: bridging the gap between research and practice*. (Eds: Lanen, H.A.J. van and Demuth, S.), Proc. of the 4th Intl Conf. held in Cape Town, South Africa, March 2002, IAHS Publ. **274**, 289-295.
- Laaha, G. (2003) Process based regionalisation of low flows. PhD thesis, Fakultät für Bauingenieurwesen, TU Wien.
- Laaha, G. and Blöschl, G. (2005) Low flow estimates from short stream flow records – a comparison of methods. *J. Hydrol.*, **306**, 264–286.
- Laaha, G., Blöschl, G. and Parajka, J. (2005) Consensus modelling of environmental flows. In: *European Geosciences Union: EGU General Assembly 2005*, 24-29 April 2005, Austria Centre, Wien, ISSN 1029-7006.
- Laaha, G. and Blöschl, G. (2006) A comparison of low flow regionalisation methods – catchment grouping. *J. Hydrol.* (in press).
- Laaha, G. and Blöschl, G. (2006) The value of seasonality indices for regionalizing low flows. *Hydrol. Processes* (accepted for publication).
- Lamb, R. and Kay, A.L. (2004) Confidence intervals for a spatially generalised, continuous simulation flood frequency model for Great Britain. *Wat. Resour. Res.*, **40**(7), W0750.1
- Lanen, H.A.J. van and Demuth, S. (Eds) (2002). *FRIEND 2002 – Regional hydrology: bridging the gap between research and practice*. IAHS Publ. **274**.
- Lanen, H.A.J. van and Peters, E. (2002) Temporal variability of recharge as indicator for natural groundwater droughts in two climatically contrasting basins. In: *FRIEND 2002 – Regional hydrology: bridging the gap between research and practice* (Eds: Lanen, H.A.J. van and Demuth, S.), IAHS Publ. **274**, 101-108.
- Lanen, H.A.J. van (2004) Groundwater networks and observation methods. In: *Groundwater studies. An international guide for hydrogeological investigations* (Eds: Kovalevsky, V.S., Kruseman, G.P. and Rushton, K.R.), IHP-VI Groundwater Series No. 3, UNESCO, Paris, 67-94.
- Lanen, H.A.J. van and Querner, E.P. (2004) Report International Study Course. ASTHyDA Report No. 4 (Report to the European Commission, EVK1-2002-80023).
- Lanen, H.A.J. van, Fendeková, M., Kupczyk, E., Kasprzyk, A. and Pokojski, W. (2004) Flow generating processes. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), *Dev. in Wat. Sci.* **48**, Elsevier B.V., The Netherlands, 53-96.
- Lanen, H.A.J. van, Kašpárek, L., Novický, O., Querner, E.P., Fendeková, M. and Kupczyk, E. (2004) Human influences. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), *Dev. in Wat. Sci.* **48**, Elsevier B.V., The Netherlands, 347-410.

- Lawler, D.M., McGregor, G.R. and Phillips, I.D. (2003) Influence of atmospheric circulation changes and regional climate variability on river flow and suspended sediment fluxes in southern Iceland, *Hydrol. Processes*, **17**, 3195-3223.
- Lee, H., McIntyre, N., Wheeler, H., Young, A.R. and Wagener, T. (2004) Assessment of rainfall-runoff model structures for regionalisation purposes. In: BHS International Conference on Hydrology – Science and practice for the 21st century (Eds: Webb, B., Arnell, A., Onof, C., McIntyre, N., Gurney, R. and Kirby, C), Vol. 1, BHS, London, July 2004.
- Lehner, B. and Döll, P. (2004) Development and validation of a global database of lakes, reservoirs and wetlands. *J. Hydrol.*, **296**(1-4), 1-22.
- Lenartowicz, M. (2003) Implementation of a mathematical model of water and solute vertical transport in the plant-soil column in the Požary basin. In: *Interdisciplinary approaches in small catchment hydrology: monitoring and research* (Eds: Holko, L. and Miklanek, P.). Proc. of 9th ERB Conf. 25-28.9.2002, Demänovská dolina, Slovakia, IHP-VI, Techn. Doc. in Hydrol., **67**, UNESCO, Paris, 149-158.
- Macdonald, N., Black, A.R. and Werritty, A. (2003) Historical and pooled flood frequency analysis for the River Ouse, York, UK. In: *Palaeofloods, historical data and climate variability: applications in flood risk assessment* (Eds: Thorndycraft, V.R., Benito, G., Barriendos, M. and Llasat, M.C.), CSIS (Centro de Ciencias Medioambientales), Madrid.
- Macdonald, N., Werritty, A. and Black, A.R. (in press) Historical and pooled flood frequency analysis for the River Tay at Perth, Scotland, Area
- McIntyre, N.R., Lee, H., Wheeler, H.S. and Young, A.R (2004) Tools and approaches for evaluating uncertainty in streamflow predictions in ungauged UK catchments. In: *iEMSs 2004 International congress on complexity and integrated resources management* (Eds: Pahl-Wostl, C., Schmidt, S. and Jakeman, T.), Intl Environmental Modelling and Software Society, Osnabrueck, Germany, June 2004.
- McIntyre, N., Lee H., Wheeler, H., Young, A.R. and Wagener, T. (2005) Ensemble predictions of runoff in ungauged catchments, *Wat. Resour. Res.*, **41**.
- Monk, W.A., Wood, P.J., Hannah, D.M. and Wilson, D.A. (2005) Flow variability and ecological response within river systems in England and Wales. *Verhandlungen der Internationalen Vereinigung für Theoretische und Angewandte Limnologie*, **29**, 711-716.
- Nauta, A.B., Bielecka, J., Querner, E.P. (2005) Hydrological model of the lower Biebrza basin; using the model as a management tool. Wageningen, Alterra, Green World Research, Alterra-Report **1179**, 58 pp.
- Pappenberger, F. and Beven, K.J. (2004) Functional classification and evaluation of hydrographs based on multicomponent mapping (Mx). *Intl J. River Basin Management*, **2**, No. 1, 1-12.
- Pappenberger, F., Beven, K.J., Horritt, M. and Blazkova, S. (2005a) Uncertainty in the calibration of effective roughness parameters in HEC-RAS using inundation and downstream level observations. *J. Hydrol.*, **302**(1-4), 46-69.
- Pappenberger, F., Beven, K.J., Hunter, N., Gouweleeuw, B., Bates, P., de Roo, A. and Thielen, J. (2005b) Cascading model uncertainty from medium range weather forecasts (10 days) through a rainfall-runoff model to flood inundation predictions within the European Flood Forecasting System (EFFS). *Hydrology and Earth System Science*, **9**(4), 381-393.

- Pappenberger, F., Matgen, P., Beven, K.J., Henry, J.-B., Pfister, L. and de Fraipont, P. (in press) Influence of uncertain boundary conditions and model structure on flood inundation predictions. *Advances in Water Resources*.
- Pappenberger, F. and Beven, K.J. (in press) Ignorance is bliss – or 7 reasons not to use uncertainty analysis. *Wat. Resour. Res.*
- Pecušová, Z., Holko, L. and Kostka, Z. (2004) Spatial and temporal distribution of snow cover in the upper Hron river basin in hydrological years 1962-2001. *Vodohospodársky časopis, J. Hydrol. and Hydromech.*, **52**(4), 267-278.
- Pekárová, P., Koníček, A. and Miklánek, P. (2005) Influence of landuse on runoff regime in experimental microcatchments of the Institute of Hydrology SAS. (In Slovak with an English summary). Veda, Bratislava, ISBN 80-224-0865-4, pp. 216.
- Peters, E. (2003) Propagation of drought through groundwater systems. Illustrated in the Pang (UK) and Upper-Guadiana (ES) catchments. PhD thesis, Wageningen University. Available at www.geo.uio.no/edc.
- Peters, E. and Lanen, H.A.J. van (2003) Propagation of drought in groundwater in semi-arid and sub-humid climate regimes. In: *Hydrology of the Mediterranean and semi-arid regions* (Eds: Servat, E., Najem, W., Leduc, C. and Shakeel, A.). IAHS Publ. **278**, 312-317.
- Peters, E., Torfs, P.J.J.F., Lanen, H.A.J. van and Bier, G. (2003) Propagation of drought through groundwater – a new approach using linear reservoir theory. *Hydrol. Processes*, **17**(15), 3023-3040.
- Peters, E. and Lanen, H.A.J. van (2004) Influence of non-linearity in the storage-discharge relationship on discharge droughts. In: *Dealing with floods within constraints* (Eds: Douben, N. and Os, A.G. van), NCR Publ. **24**-2004, Delft.
- Peters, E. and Lanen, H.A.J. van. (2004) Separation of the base flow component from streamflow using observed heads – illustrated for the Pang catchment (UK). *Hydrol. Processes*, **19**, 921-936.
- Peters, E., Lanen, H.A.J. van, Torfs, P.J.J.F. and Bier, G. (2005) Drought in groundwater – drought distribution and performance criteria. *J. Hydrol.*, **306**, 302-317.
- Peters, E., Bier, G., Lanen, H.A.J. van and Torfs, P.J.J.F. (2005) Propagation and spatial distribution of drought in a groundwater catchment. *J. Hydrol.* (accepted).
- Phillips, I.D., McGregor, G., Wilson, C.J., Bower, D. and Hannah, D.M. (2003) Regional climate and atmospheric circulation controls on the discharge of two British rivers, 1974-97. *Theor. Appl. Climatol.*, **76**, 141-164.
- Phillips, I.D., Grego, R.G., Wilson, C.J., Bower, D. and Hannah, D.M. (2003) Regional climate and atmospheric circulation controls on the discharge of two British rivers, 1974-97. *Theor. Appl. Climatol.*, **76**, 141-164.
- Prudhomme, C., Jakob, D. and Svensson, C. (2003) Uncertainty and climate change impact on the flood regime of small UK catchments. *J. Hydrol.*, **277**, 1-23.
- Querner, E.P., Jonker, R., Padovani, C., Soriano, B. and Galdino, S. (2005) Impact of climate change and agricultural developments in the Taquari river basin, Brazil. In: *Wagener, T. et al., Regional hydrological impacts of climatic change – impact assessment and decision making. Proc of Symp. 6, IAHS Scientific Ass., Foz de Iguacu, Brazil, April 2005. IAHS Publ. 295*, 19-25.

- Ragab, R. and Prudhomme, C. (2002) Climate change and water resources management in arid and semi-arid regions: prospective and challenges for the 21st century. *J. of Biosystems Engineering (formerly, J. agric. Engng. Res.)*, **81**(1), 3-34.
- Rees, G., Marsh, T.J., Roald, L., Demuth, S., Lanen, H.A.J. van and Kašpárek, L (2004) Hydrological data. In: *Hydrological drought – processes and estimation methods for streamflow and groundwater* (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), *Dev. in Wat. Sci.* **48**, Elsevier B.V., The Netherlands, 99-138.
- Runnalls, N., Demuth, S. and Marsh, T. (2005) Climate change and European droughts. In: *Climate change and the European water dimension* (Ed: Eisenreich, S.J.). A report to the European Water Directors. European Commission – JRC, EUR 21553, 121-135.
- Schmidt, R., Schwintzer, P., Flechtner, F., Reigber, Ch., Güntner, A., Döll, P., Ramillien, G., Cazenave, A., Petrovic, S., Jochmann, H. and Wünsch, J. (2005) GRACE observations of changes in continental water storage. *Global and Planetary Change* (accepted).
- Schumann, S. (2004) Environmental risk assessment of pesticides in Nepal and Hindukush-Himalayan region. In: *Comparative risk assessment and environmental decision making* (Eds: Linkov, I. and Ramadan, A.), no. 4 in NATO Series, Kluwer, 83-98.
- Schumann, S., Langenberg, F. and Herrmann, A. (2004) Die Bedeutung präferenzierter Fließbahnen für das Transportverhalten und Kontaminationsrisiko von Pflanzenschutzmitteln im Bewässerungsfeldbau (Importance of preferential flow paths of transport behaviour and contamination risk of pesticides under irrigation). *Forum für Hydrologie und Wasserbewirtschaftung 05.2004*, **1** Vorträge, Hennef, 41-52.
- Siebert, S., Döll, P., Hoogeveen, J., Faures, J.-M., Frenken, K. and Feick, S. (2005) Development and validation of the global map of irrigation areas. *Hydrology and Earth System Sciences*, **9**, 535-547.
- Skaugen, T. (1999) Estimating the mean areal snow water equivalent by integration in time and space. *Hydrol. Processes* **13**, 2051-2066.
- Skaugen, T., Beldring, S. and Udnæs, H.-C. (2003) Dynamical properties of the spatial distribution of snow. *Hydrology and Earth System Sciences (HESS)*, **7**(5), 744-753.
- Skaugen, T., Alfnes, E., Langsholt, E.G. and Udnæs, H.-C. (2004) Time variant snow distribution for use in hydrological models. *Annals of Glaciology*, **38**, 180-186.
- Skaugen, T., Langsholt, E.G., Alfnes, E. and Udnæs, H.-C. (2005) Linking the variability of precipitation to the spatial distribution of snow. *Hydrol. Processes* (submitted).
- Skaugen, T., Langsholt, E.G., Alfnes, E. and Udnæs, H.-C. (2005) Updating the snow reservoir in hydrological models using remotely sensed SCA with the gamma sum model. *Hydrol. Processes* (submitted).
- Smakhtin, V., Revenga, C. and Döll, P. (2004) A pilot global assessment of environmental water requirements and scarcity. *Wat. Intl*, **29**(3), 307-317.
- Solín, L. (2002) Regional flood frequency analysis: identification of physical regional types. *Proc. of Intl Conf. on Flood Estimation, Bern, Switzerland*, CHR Report **II-17**, 687-696.
- Solín, L. (2004) Regional regression equations in hydrogeography: analysis of some methodology aspects. *Geografický časopis, (Geographical Journal)* **56**(3), 203-224.
- Somorowska, U. (2002) Extreme stages of the basin wetness conditions. Variability of the soil moisture in a lowland basin. In: *FRIEND 2002 – Bridging the gap between research and practice.* (Eds: Lanen, H.A.J. van and Demuth, S.), *Proc. FRIEND 2002 Conf.*, Cape Town, South Africa, March 2002, IAHS Publ. **274**, 389-395.

- Somorowska, U. (2002a) Linking research, policy and practice for managing dynamic water resources in a protected area. In: International assessment and decision support, Proc. of the 1st biennale meeting of the International Environmental Modelling and Software Society, Eds: Rizzoli, A.E. and Jakeman, A.J., University of Lugano, Switzerland, **1**, 66-71.
- Somorowska, U. (2003) Risk assessment of the occurrence of extreme groundwater levels, discharge and soil moisture stages. *Intl J. of Ecohydrol. and Hydrobiol.*, **3**(2), 311-321.
- Somorowska, U. (2004) Temporal patterns of the subsurface water storage inferred from the soil moisture TDR measurements. ERB 2004 Conf. Proc., Turin, Italy. In: Progress in surface and subsurface water studies at the plot and small basin scale (Eds: Tropeano, D., Arattano, M., Maraga, F. and Pellisaro, C.), Intl Conf. ERB 2004, Techn. Doc. in Hydrol., UNESCO, Paris, (in press).
- Somorowska, U. (2006) Physical insight into soil water storage interacting in the soil-plant atmosphere system. In: Proc. 5th FRIEND World Conference, Water resource variability: Processes, analyses and impacts, 27 November – 1 December 2006, Havana, Cuba. IAHS Publ. **308** (in press).
- Stahl, K., Hassler, B. and Demuth, S. (2002) Scenarios assessing the influence of climate variability on drought in Europe. In: FRIEND 2002 – Regional hydrology: bridging the gap between research and practice (Eds: Lanen, H.A.J. van and Demuth, S.). IAHS Publ. **274**, 93-100.
- Stahl, K. and Hisdal, H. (2004) Hydroclimatology. In: Hydrological drought – processes and estimation methods for streamflow and groundwater (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), *Dev. in Wat. Sci.* **48**, Elsevier B.V., The Netherlands, 19-48.
- Stehlík, J. and Bubeníčková, L. (2002) Relationships between the snow water equivalent in the forest and open areas in the experimental basins in the Jizera Mountains. (In Czech with an English abstract). *Vodohospodársky časopis (J. Hydrol. and Hydrom.)*, **50**(3), 233-246.
- Tallaksen, L.M. and Hisdal, H. (2004) ASTHyDA – an accompanying measure within the EC 5 Framework Programme. *IAHS Newsletter* **2004(81)**, 7-8.
- Tallaksen, L.M. and Lanen, H.A.J. van (2004) ASTHyDA – Annual Report: 01 December 2002 - 30 November 2003. ASHyDA Report No 1. (Report to the European Commission, EVK1-2002-80023).
- Tallaksen, L.M. and Lanen, H.A.J. van (2004) Introduction. In: Hydrological drought – processes and estimation methods for streamflow and groundwater (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), *Dev. in Wat. Sci.*, **48**, Elsevier B.V., The Netherlands, 3-17.
- Tallaksen, L.M., Madsen, H. and Hisdal, H. (2004) Frequency analysis. In: Hydrological drought – processes and estimation methods for streamflow and groundwater (Eds: Tallaksen, L.M. and Lanen, H.A.J. van), *Dev. in Wat. Sci.*, **48**, Elsevier B.V., The Netherlands, 199-271.
- Tallaksen, L.M. (ed.) (2004) Northern European FRIEND & AMHY FRIEND joint low flow meeting, Summary report. A contribution to the UNESCO IHP-VI programme on hydrological extremes. 12-15 May, 2004, Bratislava, Slovakia. Available at www.geo.uio.no/edc.
- Tallaksen, L.M. and Lanen, H.A.J. van (Eds) (2004) Hydrological drought – processes and estimation methods for streamflow and groundwater. *Dev. in Wat. Sci.*, **48**, Elsevier B.V., The Netherlands.

- Tallaksen, L.M. and Lanen, H.A.J. van (2005) ASTHyDA – Final Report: 01 December 2002 - 30 November 2004. ASHyDA Report No 5. (Report to the European Commission, EVK1-2002-80023).
- Tallaksen, L.M., Demuth, S. and van Lanen, H.A.J. (2005) Low flow and drought studies – the Northern European (NE) FRIEND experience. In: Climatic and anthropogenic impacts on the variability of water resources, Proc. of UNESCO-FRIEND Intl Sem., Montpellier, 22-24 November 2005 (in press).
- Tesař, M., Šír, M., Syrovátka, O., Pražák, J., Lichner, L. and Kubík, F. (2001) Soil water regime in head water regions – observation, assessment and modelling. *Vodohospodársky časopis (J. Hydrol. and Hydromech.)*, **49**(6), 355-375.
- Tokarczyk, T. and Adynkiewicz-Piragas, M. (2003) Susze w górskich zlewniach Sudetów (Drought in mountain catchment in Sudety region). *Mat. Konferencyjne: Hydrologia zlewni górskich, Zeszyt, Nr 9*, Wyd. Akademii Techniczno Humanistycznej w Bielsku Białej, 83-91.
- Tokarczyk, T., Adynkiewicz-Piragas, M. and Mordalska, H. (2004) Problemy w planowaniu zarządzaniem zasobami wodnymi w przypadku niedoborów wody (Problems in planning of water resources management in case of water shortage). XIII Ogólnopolska Szkoła Naukowa Gospodarki Wodnej, Jachranka 2003. Wyd. IMGW.
- Uhlenbrook, S., Frey, M., Leibundgut, Ch. and Maloszewski, P. (2002) Hydrograph separations in a mesoscale mountainous basin at event and seasonal timescales. *Wat. Resour. Res.* **38**, no. 6, 1-14.
- Uhlenbrook, S. and Hoeg, S. (2003) Quantifying uncertainties in tracer-based hydrograph separations: a case study for two-, three- and five-component hydrograph separations in a mountainous catchment. *Hydrol. Processes*, **17**, 431-453.
- Uhlenbrook, S., Didszun, J. and Leibundgut, S. (2003) Runoff generation processes on hillslopes and their susceptibility to global change. In: *Global change and mountain regions: a state-of-knowledge overview* (Eds: Huber, U., Reasoner, M. and Bugmann, H.). *Advances in Global Change Research*, Kluwer Academic Publishers, Dordrecht, 297-308.
- Væringstad, T., Hisdal, H. and Drageset, T.-A. (2004) Estimation of low flow indices at ungauged sites, a case study from Norway. XXIII Nordic Hydrological Conference, NHP-Report No. 48, 61-70.
- Van der Hoeven, P.C.T., Warmerdam, P.M.M. and Kole, J.W. (2005) Description of the Castricum lysimeters 1941-2000, The Netherlands. Comparison of raingauges and throughfall. Proc. Conf. on Forest impact on hydrological processes and soil erosion. Yundola 2005, Bulgaria.
- Van der Hoeven, P.C.T. and Warmerdam, P.M.M. (2005a) Elaboration of the water balance of the Castricum lysimeters 1941-1997, Castricum, the Netherlands. Proc. Conf. on Forest impact on hydrological processes and soil erosion. Yundola 2005, Bulgaria.
- Van der Velde, R., Warmerdam, P. and Stricker, J. (2004) Comparison of methods to compute reference evapotranspiration with lysimeter measurements. In: *Progress in surface and subsurface water studies at the plot and small basin scale*. Intl ERB 2004 conf., Turin, Italy.
- Vassolo, S. and Döll, P. (2005) Global-scale gridded estimates of thermoelectric power and manufacturing water use. *Wat. Resour. Res.*, **41**(4) W04010 <http://dx.doi.org/10.1029/2004WR003360>, 15 April 2005.

- Verwij, L. (2005) Drought definitions for groundwater recharge, groundwater depth and streamflow: Poelsbeek and Bolscherbeek catchments (the Netherlands). MSc thesis, Wageningen University. Available at www.geo.uio.no/edc.
- Wenniger, J., Uhlenbrook, S., Tilch, N. and Leibundgut, Ch. (2004) Experimental evidence of fast groundwater responses in a hillslope/floodplain area in the Black Forest mountains, Germany, *Hydrol. Processes*, **18**, 3305-3322.
- Werner, M.G.F., Blazkova, S. and Petr, J. (2005a) Spatially distributed observations in constraining inundation modelling uncertainties. *Hydrol. Processes*, **19**, 3081 - 3096.
- Werner, M.G.F., Hunter, N.M. and Bates, P.D. (2005b) Identifiability of distributed floodplain roughness values in flood extent estimation. *J. Hydrol.*, **314**(1-4), 139-157.
- Werritty, A., Paine, J., Macdonald, N., Rowan, J.S. and McEwen, L.J. (in press) Use of proxy flood records to improve estimates of flood risk: lower River Tay, Scotland, Catena.
- Woronko, D. (2003) The water circulation in a peatland of the example of Wielkie Torfowisko Batorowskie in Stołowe Mountains. In: *Interdisciplinary approaches in small catchment hydrology: monitoring and research*. (Eds: Holko L. and Miklanek P.) Proc. of 9th Conf. of ERB 25-28.9.2002, Demänovská dolina, Slovakia, IHP-VI, Techn. Doc. in Hydrol., **67**, UNESCO, Paris, 33-38.
- Woronko, D. and Zmudzka, E. (2004) The influence of climate changes on hydrology and development of the Welkie Batorowskie peatland in Stolowe mountains (south-west Poland). *Landschaftsökologie und Umweltforschung*, Heft **47**, 435-438.
- Young, A.R. and Reynard N.S. (2004) River flow simulation within ungauged catchments; the utility of regionalised models. In: *iEMSs 2004 Intl congress on Complexity and integrated resources management* (Eds: Pahl-Wostl, C., Schmidt, S. and Jakeman, T.), Intl Environmental Modelling and Software Society, Osnabrueck, Germany, June 2004.
- Young, A.R. (2006) Stream flow simulation within UK ungauged catchments using a daily rainfall-runoff model. *J. Hydrol.* (in press), corrected proof available online 12 Oct. 2005.

Alpine and Mediterranean FRIEND (AMHY)

- Adler, M.-J. (2004) Water management during 2002-2003 droughty period in the Danube basin, NE & AMHY FRIEND Meeting, Bratislava.
- Aksoy, H., Bayazit, M. and Wittenberg, H. (2002) Probabilistic approach to modelling of recession curves. *Hydrol. Sci. J.* **46**(2), 269-285.
- Aksoy, H. (2003) Markov chain-based modelling techniques for stochastic generation of daily intermittent streamflows. *Advances in Water Resources*, Elsevier, **26**, 663-671.
- Aksoy, H. (2004) Using Markov chains for non-perennial daily streamflow data generation. *J. Applied Statistics*, **31** (9), 1083-1094.
- Andreeva, T. and Martinov, M. (2004) Synoptic conditions and impact on the extreme subsidence of the water level in the Bulgarian section of the Danube river. BALWOIS Conference, Ohrid, Macedonia, 25-29 May 2004.
- Ardoin-Bardin, S., Servat, E., Paturel, J.E. and Casenave, L. (2006) Evolution pluviométrique sur le bassin méditerranéen à partir des scénarios d'émission de gaz à effet de serre traités par les modèles climatiques. Mediterranean Side Event, Future of Drylands Conf., Tunis, 19-20 June 2006.