

Cintia Bertacchi Uvo – Selected Publications

Peer reviewed

- Striberger, J.; S. Björck, Ó. Ingólfsson, K. Kjær, I. Snowball, **C. B. Uvo**. (2011) Climate variability and glacial processes in eastern Iceland during the past 700 years based on varved lake sediments. *Boreas*, 40(1), 28-45. doi: 10.1111/j.1502-3885.2010.00153.x.
- Foster, K., J. Olsson and **C. B. Uvo**. New approaches to spring flood forecasting in Sweden. *Vatten* nr 3-4, 193-198, 2010.
- Nilsson, A., I. Snowball, R. Muscheler, **C. B. Uvo** (2010) Holocene paleomagnetic dipole tilt model constrained by sedimentary paleomagnetic data. *Geochemistry, Geophysics, Geosystems*, 11(8). doi: 10.1029/2010GC003118.
- Foster, K. and **C. B. Uvo** (2010) Seasonal streamflow forecast: a GCM multi-model downscaling approach. *Hydrology Research*, 41.6, 503-507.
- Clarke, R. T., R. Paiva and **C. B. Uvo** (2009) "Comparison of methods for analysis of extremes when records are fragmented: a case study using Amazon basin rainfall data". *J. Hydrology*, **368**, 26–29, 2009.
- Jónsdóttir, J. F. and **C. B. Uvo** (2009) Long term variability in Icelandic hydrological series and its relation to variability in atmospheric circulation over the North Atlantic Ocean. *International Journal of Climatology*, 29(10), 1369-1380, 2009.
- Bravo, J. M., A. R. Paz, W. Collischonn, **C. B. Uvo**, O. C. Pedrollo, S. C. Chou. Incorporating rainfall forecast in medium-range streamflow forecast empirical and hydrological models. *J. Hidrologic Eng*, DOI: 10.1061/(ASCE)HE.1943-5584.0000014, 2009.
- Jónsdóttir, J. F., **C. B. Uvo**, R. T. Clarke. Trend analysis in Icelandic discharge, temperature and precipitation series by parametric methods. *Hydrology Research*, 39 (5-6), 425-436, 2008.
- Jónsdóttir, J. F., **C. B. Uvo**, R. T. Clarke Filling gaps in measured discharge series with model-generated series. *J. Hydrologic Eng.*, **13**(9), 905-909, 2008.
- Nilsson, P., **C. B. Uvo**, W. Landman, T. D. Nguye Downscaling of GCM forecasts to streamflow over Scandinavia. *Hydrology Research*, 39.1, 17-25, 2008.
- Jebari, S., R. Berndtsson, **C. B. Uvo** and A. Bahri Regionalizing short-term rainfall affected by topography in semiarid Tunisia. *Hydrological Sciences Journal*, **52**(6), 1199-1215, 2007.
- Nguyen, T.D., **C. B. Uvo**, D. Rosbjerg. Relationship between tropical Pacific and Indian Ocean sea surface temperature and monthly precipitation over the central highland, Vietnam. *JOC*. **27** (11), 1439–1454, 2007.
- Gabitsinashvili, G., D. Namgaladze, **C. B. Uvo**. Evaluation of Artificial Neural Network Techniques for River Flow Forecasting. *Environmental Engineering and Management Journal*, **6**(1), 37-43, 2007.
- Nishiyama, K., S. Endo, K. Jinno, **C. B. Uvo**, J. Olsson, R. Berndtsson Identification of typical synoptic patterns causing heavy rainfall in the rainy season in Japan by a Self-Organizing Map. *Atmospheric Research*, **83**, 185–200, 2007.
- Jónsdóttir, J.F., P. Jónsson, **C. B. Uvo** Trend analysis of Icelandic discharge, precipitation and temperature series. *Nordic Hydrology*. **37** (4-5), 365-376, 2006.
- Nilsson, P., **C. B. Uvo**, R. Berndtsson. Monthly runoff simulation: comparison of a conceptual model, neural networks and a combination of them. *J. Hydrology*, **321**, 344–363, 2006.
- Cherry, J., H. Cullen, M. Visbeck, A. Small and **C. Uvo**. Impacts of the North Atlantic Oscillation on Scandinavian hydropower production and energy markets. *Water Resource Management*, **19**, 673-691, 2005.

- Maher, O. A., **C. B. Uvo** and L. Bengtsson. Study of the effects of two extreme NAO years on the thermal regime of Lake Vendyurskoe, Karelia, during winter. *J. Hydrometeorology*, **6**(5), 775–783, 2005
- Sivakumar, B., R. Berndtsson, M. Persson, **C. B. Uvo**. A multi-variable time series phase-space reconstruction approach to investigation of chaos in hydrological processes. *International Journal of Civil and Environmental Engineering*, **1**(1), 35-51, 2005.
- Olsson, J., **C. B. Uvo**, K. Jinno, A. Kawamura, K. Nishiyama, N. Koreeda, T. Nakashima, O. Morita. Neural Networks for rainfall forecasting by atmospheric downscaling. *J. Hydrologic Eng.* **9** (1), 1-12, 2004.
- Uvo, C. B.**: Analysis and Regionalization of Northern European Winter Precipitation based on its Relationship with the North Atlantic Oscillation. *International Journal of Climatology*, **23**, 1185–1194, 2003.
- Persson, M., **C. B. Uvo**: Estimating soil solution electrical conductivity from time domain reflectometry measurements using neural networks. *Journal of Hydrology*, **273**, 249-256, 2003.
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Book Chapters

- Paz, A.R., **C. B. Uvo**, J. M. Bravo, W. Collischonn. Seasonal precipitation forecast based on artificial neural networks. In: “Computational Methods Applied to Agricultural Research: Advances and Applications” Eds: Prado H.A., A.J.B. Luiz, H.C. Filho. Information Science Reference. ISBN 978-1-61692-871-1. 326 – 354, 2011.
- Uvo, C. B.** and R. T. Clarke: Detecting long-term change in flood risk. In: *Applied uncertainty analysis for flood risk management*. Accepted for publication by World Scientific / Imperial College Press.