

SCIENTIFIC JOURNALS (PEER-REVIEWED)

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- C64. Gruber, G., Gamerith, V., Olsson, J., Camhy, D., Steffebauer, D., Hochedlinger, M., Schlobinski, S., Dihé, P., and L. Gidhagen (2012) SUDPLAN: developing a decision support system to cope with climate change – urban drainage pilot Linz, Proceedings of IWA World Water Congress & Exhibition, 16-21 September, Busan, S. Korea.
- C65. Olsson, J., and L. Gidhagen (2012) Tailored rainfall input in urban hydrological climate change impact assessment, 9th International Conference on Urban Drainage Modelling, 3-7 September, Belgrade, Serbia.
- C66. Foster, K., Olsson, J., Uvo, C.B., Yang W., and J. Södling (2012) A comparison of different approaches for forecasting spring floods in Sweden and the feasibility of a multi-model forecast system, Proceedings of XXVII Nordic Hydrological Conference (Nordic Water), 13-15 August, Oulu, Finland.

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- C69. Gamerith, V., Olsson, J., Camhy, D., Hochedlinger, M., Kutschera, P., Schlobinski, S., and G. Gruber (2012) Assessment of combined sewer overflows under climate change: urban drainage pilot study Linz, Proceedings of IWA World Congress on Water, Climate and Energy, 13-18 May, Dublin, Ireland.
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- C76. Olsson, J., Gidhagen, L., and A. Kawamura (2011) Downscaling of short-term precipitation time series for climate change impact assessment, Proceedings of International Symposium on Environmental Software Systems, 27-29 June, Brno, Czech Republic.
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- C80. Olsson, J., Arheimer, B., Lindström, G., and J. Dahné (2010) Uncertainties in flood forecasting: experiences from the Swedish system, Proceedings of 6th European Conference on Radar in Meteorology and Hydrology, 6-10 September, Sibiu, Romania.
- C81. Olsson, J., Dahné, J., German, J., and H. Amaguchi (2010) Urban hydrological climate change impact assessment: some Swedish experiences, Proceedings of XXVI Nordic Hydrological Conference, 9-11 August, Riga, Latvia.
- C82. Berndtsson, R., Olsson, J., Sivakumar, B., and K. Jinno (2009) Dynamic links between climate and environmental change, Proceedings of International Symposium on Earth Science and Technology, 8-9 December, Fukuoka, Japan.
- C83. Olsson, J., Yang, W., and U. Willén (2009) Application of RCM output for urban hydrological modeling, Proceedings of the 8th IAHS Scientific Assembly & 37th IAH Congress, 6-12 September, Hyderabad, India.
- C84. Berndtsson, R., Sivakumar, B., Olsson, J. and L.P. Graham (2009) Climate change and its effects on regional hydrology: a case study for the Baltic Sea drainage basin, Proceedings of the 18th World IMACS/MODSIM09 Congress, 13-17 July, Cairns, Australia.
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- C88. Olsson, J., Uvo, C.B., and E. Kjellström (2008) Downscaling of Regional Climate Model precipitation for urban hydrology, Proceedings of the 11th International Conference on Urban Drainage, 31 August - 5 September, Edinburgh, Scotland.
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- C100. Yasuda, H., Berndtsson, R., Umegaki, Y., Persson, M., Sivakumar, B., Olsson, J., Jinno, K., and P. Öhrström (2003) A chaotic dynamical approach to simulate particle movement in the saturated zone, Proceedings of International Conference on Water and Environment, 15-18 December, Bhopal, India.
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- C109. Olsson, J., Uvo, C.B., Merabtene, T., Kawamura, A., and K. Jinno (2000) Estimating basin rainfall and runoff from atmospheric circulation: a case study in Kyushu Island, Japan, Western Pacific Geophysics Meeting, 27-30 June, Tokyo, Japan, Eos Trans. AGU, 81(22), H51B-08.
- C110. Jinno, K., and J. Olsson (2000) Breakthrough for groundwater research by fully recognizing uncertainty, Western Pacific Geophysics Meeting, 27-30 June, Tokyo, Japan, Eos Trans. AGU, 81(22), H21B-01.
- C111. Sivakumar, B., Berndtsson, R., and J. Olsson (2000) Possibility of chaos in rainfall-runoff process, European Geophysical Society XXV General Assembly, 25-29 April, Nice, France, Geophys. Res. Abs., 2, NP88.
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- C122. Olsson, J., Svensson, C., Niemczynowicz, J., and R. Berndtsson (1994) Relation between climatic characteristics and fractal properties of rainfall, European Geophysical Society XIX General Assembly, 25-29 April, Grenoble, France, Annales Geophys., 12 (Suppl.II), 409.
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- C129. Olsson, J., Niemczynowicz, J., Berndtsson, R., and M. Larson, (1990) Fractal properties of rainfall time series, European Geophysical Society XV General Assembly, 23-27 April, Copenhagen, Denmark, Annales Geophys., special issue, 142.

OTHER GREY REFERENCES (SEMINARS, POPULAR PRESENTATIONS ETC.)

- O1. Olsson, J. (2024) Extreme scenarios for fair water decisions, presented at Vattendagarna, 15-17 October, Norrköping, Sweden (in Swedish).
- O2. Destouni, G., Hoffman, M., Gren, I.-M., Högvik, M., Kjellson, H., Lindblom, L., Lindroth, A., Olsson, J., Rahm, T., Sandborgh, U., Thörn, P., and K. Byman (2021) Climate changes and sustainable water supply, Royal Swedish Academy of Engineering Sciences, Stockholm, Sweden, 57 pp. (in Swedish) .
- O3. Olsson, J. (2020) Some reflections on climate knowledge transfer and the impact of climate model resolution, presentation held at the workshop Downscaling climate projections – towards better adaptation strategies in the Nordic countries, Nordic Council of Ministers, 20 November, online.
- O4. Olsson, J., J.C.M. Andersson P. Berg, J. Hansryd and B. Arheimer (2019) Operational rainfall monitoring by microwave links: a case study in Gothenburg, Sweden, J. Hydrol. System, 112, 15-17.
- O5. Olsson, J. (2017) New cloudburst statistics for Sweden, Slutseminarium for regeringsuppdrag om skyfall, 8 November, Norrköping, Sweden (in Swedish).
- O6. Olsson, J. (2017) 4DF: distance-dependent forecasts of hydrological cloudburst consequences, Meteorologisk Metodkonferens 2017, 26-27 October, Norrköping, Sweden (in Swedish).
- O7. Olsson, J. (2017) Multi-scale urban flood forecasting (MUFFIN): from local tailored systems to a Pan-European service, poster at Hydrologidagarna, 16-17 March, University of Gothenburg, Sweden.
- O8. Eronn, A., and J. Olsson (2016) Mission: cloudburst, invited talk at Research and Innovation for Sustainable Stormwater Management, 30 November-1 December, Stockholm, Sweden (in Swedish).
- O9. Olsson, J. (2016) Improved short-term forecasts of cloudbursts using radar and mobile masts, invited talk at Modelling for Climate Adaptation, 9 November, Lund, Sweden (in Swedish).
- O10. Olsson, J. (2016) Development of a high-resolution flood forecasting system in Sweden, invited talk at WMO RAVI Hydrological Forum 2016, 20 September, Oslo, Norway.
- O11. Olsson, J. (2015) Short-duration precipitation extremes – now and in the future, presentation at Sustainable Storm Water Management, 2-3 June, Stockholm, Sweden (in Swedish).
- O12. Tanouchi, H., Olsson, J., and A. Kawamura (2015) HYPE model parameter identification for urban watersheds based on infiltration characteristics and geographic information: a preliminary study,

presented at Hydrologidagen, 31 March, Chalmers University of Technology, Gothenburg, Sweden (in Swedish).

- O13. Olsson, J. (2014) Intense precipitation and hydrological risk: towards high-resolution flood forecasts, invited talk at Forum för Naturkatastrofer, 18-19 November, Stockholm, Sweden (in Swedish).
- O14. Olsson, J., and K. Foster (2012) Spring flood forecasting in Sweden: new approaches and multi-modelling, presentation at European Centre for Medium-range Weather Forecasting (ECMWF) seminar, 17 April, Reading, UK.
- O15. Strömbäck, L., Olsson, J., and J. Andersson (2012) Hydrological climate services in SUDPLAN, presented at Hydrologidagarna, 14-15 March, Swedish Meteorological and Hydrological Institute, Norrköping, Sweden (in Swedish).
- O16. Berndtsson, R., Sivakumar, B., Olsson, J., and P. Graham (2012) Dynamic characteristics of temperature, precipitation and runoff to the Baltic Sea during the past millennium, *Vatten*, 67, 185-192.
- O17. Olsson, J. (2011) Hydrological climate change impacts studies and scientific theory, in K.M. Persson (Ed.), *Lars Bengtsson – a water resource*, Report nr. 3253, Department of Water Resources Engineering, Lund University, 181 pp.
- O18. Olsson, J. (2011) Climate adaptation: analyses of model results and development of tools, invited talk at Urban hydrology and storm water management, 9-10 November, Lund, Sweden (in Swedish).
- O19. Foster, K., Olsson, J., and C. B. Uvo (2011) New approaches to spring flood forecasting in Sweden, *Vatten*, 66, 193-198 (in Swedish).
- O20. Willems, P., Arnbjerg-Nielsen, K., Olsson, J., and V.T.V. Nguyen (2011) Impact of climate variability and change on rainfall extremes and urban drainage, Review report by the IWA/IAHR International Working Group on Urban Rainfall (IGUR), 94 pp.
- O21. Olsson, J., Dahné, J., German, J., Westergren, B., von Scherling, M., Kjellson, L., Ohls, F., and A. Olsson (2010) Impacts from future changes in climate and population on Stockholm main sewer system, *Mistra-SWECIA*, Newsletter nr. 2:10.
- O22. Olsson, J., and U. Willén (2010) Downscaling extreme RCA3-precipitation for urban hydrological applications, *Mistra-SWECIA Working Paper nr. 3*, 32 pp.
- O23. Olsson, J. (2010) Urban hydrological climate change impact assessment, invited talk at KlimatGIS-dagar, 18-19 May, Stockholm, Sweden (in Swedish).
- O24. Olsson, J., and C. B. Uvo (2010) Development of spring flood forecasts, invited talk at HUVÄ-dagen, 18 March, Stockholm, Sweden (in Swedish).
- O25. Olsson, J. (2010) Climate changes in Lake Mälaren, Course on Mälaren Region and Future Climate (Karlstad University), 28 January, Stockholm, Sweden (in Swedish).
- O26. Olsson, J. (2010) Spring flood forecasts, Nordic Course on Climate and Hydrology (Lund University), 25-27 January, Norrköping, Sweden.
- O27. Olsson, J. (2009) The return of the 10-year rainfall – now and in the future, invited talk at the 2009 Water Fairs, 22-24 September, Stockholm, Sweden (in Swedish).
- O28. Olsson, J. (2009) Estimation of local precipitation and IDF-curves from climate model data, invited talk at Water and Climate Changes – an International Perspective, 28 May, Tyréns AB, Stockholm, Sweden.
- O29. Smith, B., Lagergren, F., Olsson, J., and M. Rummukainen (2009) Integrated impact studies, *Mistra-SWECIA Annual Report 2009*, 21-22 (in Swedish).
- O30. Olsson, J. (2009) Hydrology and climate, invited talk at Nordic Hydrology, Fundamentals and Market Analysis, 21-23 April, Oslo, Norway.
- O31. Olsson, J. (2009) Hydrological forecasting, invited talk at Nordic Hydrology, Fundamentals and Market Analysis, 21-23 April, Montel, Oslo, Norway.
- O32. Olsson, J. (2009) Estimation of local precipitation and IDF-curves from climate model data, presented at Hydrologidagarna, 2-3 March, Chalmers University of Technology, Göteborg, Sweden (in Swedish).
- O33. Olsson, J., and K. Berggren (2008) How will local rainfall change in the future? *Mistra-SWECIA*, Newsletter nr. 1, 11-15.
- O34. Olsson, J. (2008) Focus on water in Stockholm – more water more frequently, or the opposite?, presented at the Mistra-SWECIA seminar Climate Change and Adaptation in the Stockholm Region, 28 November, Stockholm, Sweden (in Swedish).
- O35. Olsson, J. (2005) A test of MoST – a new tool for quality assurance of catchment-based modelling, *Vatten*, 61, 249-256 (in Swedish).

- O36. Graham, L.P., and J. Olsson,(2005) Validation of ELDAS at catchment scale, In: P. Viterbo (Ed.) Proceedings from ECMWF/ELDAS workshop on Land Surface Assimilation, Reading, UK, 8-11 November 2004, 179-186.
- O37. Vehviläinen, B., Cauwengerghs, M. K., Cheze, J.-L., Jurczyk, A., Moore, R. J., Olsson, J., Salek, M., and J. Szturc (2004), Evaluation of operational flow forecasting systems that use weather radar, Report to EU Concerted Research Action 717, 15 pp.
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