

Publications

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THE TEN MOST IMPORTANT PUBLICATIONS

- [1] O. Rätty, M. Laine, U. Leijala, J. Särkkä, M. M. Johansson: Bayesian hierarchical modelling of sea-level extremes in the Finnish coastal region, *Natural Hazards and Earth System Sciences*, **2023(23)**, pages 2403–2418, 2023. doi:[10.5194/nhess-23-2403-2023](https://doi.org/10.5194/nhess-23-2403-2023)
- [2] M. Gunia, M. Laine, O. Malve, K. Kallio, M. Kervinen, S. Anttila, N. Kotamäki, E. Siivola, J. Kettunen, T. Kauranne: Data fusion system for monitoring water quality: Application to chlorophyll-a in Baltic sea coast, *Environmental Modelling & Software*, pages 105465, 2022. doi:[10.1016/j.envsoft.2022.105465](https://doi.org/10.1016/j.envsoft.2022.105465)
- [3] Marko Laine: Introduction to dynamic linear models for time series analysis. Chapter in book *Geodetic Time Series Analysis in Earth Sciences*, Springer Geophysics, 2019. doi:[10.1007/978-3-030-21718-1_4](https://doi.org/10.1007/978-3-030-21718-1_4) arXiv:[1903.11309](https://arxiv.org/abs/1903.11309)
- [4] J. E. Campbell, J. A. Berry, U. Seibt, S. J. Smith, S. A. Montzka, T. Launois, S. Belviso, L. Bopp, M. Laine: Large historical growth in global gross primary production, *Nature*, **544**, pages 84–87, 2017. doi:[10.1038/nature22030](https://doi.org/10.1038/nature22030)
- [5] H. Tian, P. Yu, B. Cazelles, L. Xu, H. Tan, J. Yang, S. Huang, B. Xu, J. Cai, C. Ma, J. Wei, S. Li, J. Qu, M. Laine, J. Wang, S. Tong, N. C. Stenseth, B. Xu: Interannual cycles of Hantaan virus outbreaks at the human-animal interface in Central China are controlled by temperature and rainfall, *Proceedings of the National Academy of Sciences*, **114(3)**, pages 8041–8046, 2017. doi:[10.1073/pnas.1701777114](https://doi.org/10.1073/pnas.1701777114)
- [6] Virpi Junntila, Marko Laine: Bayesian principal component regression model with spatial effects for forest inventory under small field sample size, *Remote Sensing of Environment*, **192**, pages 45–57, 2017. doi:[10.1016/j.rse.2017.01.035](https://doi.org/10.1016/j.rse.2017.01.035)
- [7] Santtu Mikkonen, Marko Laine, Hanna M. Mäkelä, Hilppa Gregow, Heikki Tuomenvirta, Matti Lahtinen, Ari Laaksonen: Trends in the average temperature in Finland, 1847–2013, *Stochastic Environmental Research and Risk Assessment*, **29(6)**, pages 1521–1529, 2015. doi:[10.1007/s00477-014-0992-2](https://doi.org/10.1007/s00477-014-0992-2)
- [8] Marko Laine, Niilo Latva-Pukkila, Erkki Kyrölä: Analysing time-varying trends in stratospheric ozone time series using the state space approach, *Atmospheric Chemistry and Physics*, **14(18)**, pages 9707–9725, 2014. doi:[10.5194/acp-14-9707-2014](https://doi.org/10.5194/acp-14-9707-2014)
- [9] Marko Laine, Antti Solonen, Heikki Haario, Heikki Järvinen: Ensemble prediction and parameter estimation system: the method, *Quarterly Journal of the Royal Meteorological Society* **138(663)**, pages 289–297, 2012. doi:[10.1002/qj.922](https://doi.org/10.1002/qj.922)
- [10] Heikki Haario, Marko Laine, Antonietta Mira, Eero Saksman: DRAM: Efficient adaptive MCMC. *Statistics and Computing*, **16(4)**, pages 339–354, 2006. doi:[10.1007/s11222-006-9438-0](https://doi.org/10.1007/s11222-006-9438-0)