

## Preceding project EXWE

### Presentations

2018: [Presentation in the SAFIR2018 Final seminar 21.–22.3.2019, Hanasaari, Espoo, Finland \(pdf\)](#)

2015: [Presentation in the SAFIR2014 Final seminar 19.–20.3.2015, Hanasaari, Espoo, Finland \(pdf\)](#)

2011: [Presentation in the SAFIR2010 Final seminar 10.–11.3.2011, Hanasaari, Espoo, Finland \(pdf\)](#)

### Selected recent EXWE publications

Jylhä K, M. Kämäräinen, C. Fortelius, H. Gregow, J. Helander, O. Hyvärinen, M. Johansson, A. Karppinen, A. Korpinen, R. Kouznetsov, E. Kurzeneva, U. Leijala, A. Mäkelä, H. Pellikka, S. Saku, J. Sandberg, M. Sofiev, A. Vajda, A. Venäläinen, J. Vira, 2018: Recent meteorological and marine studies to support nuclear power plant safety in Finland. *Energy*, 165 (A), 1102–1118.

<https://doi.org/10.1016/j.energy.2018.09.033>

Kämäräinen, M., Hyvärinen, O., Jylhä, K., Vajda, A., Neiglick, S., Nuottokari, J., and Gregow, H., 2017: A method to estimate freezing rain climatology from ERA-Interim reanalysis over Europe, *Nat. Hazards Earth Syst. Sci.*, 17, 243–259.

<https://doi.org/10.5194/nhess-17-243-2017>

Kämäräinen M, Hyvärinen O, Vajda A, Nikulin G, Meijgaard E, Teichmann C, Jacob D, Gregow H, Jylhä K., 2018: Estimates of present-day and future climatologies of freezing rain in Europe based on CORDEX regional climate models. *Journal of Geophysical Research: Atmospheres*, 123. <https://doi.org/10.1029/2018JD029131>

Leijala U., Björkqvist J.-V., Johansson M.M., Pellikka H., Laakso L., Kahma K.K., 2018. Combining probability distributions of sea level variations and wave run-up to evaluate coastal flooding risks. *Natural Hazards and Earth System Sciences*, 18, 2785–2799. <https://doi.org/10.5194/nhess-18-2785-2018>

Luomaranta, A., Aalto, J. and Jylhä, K., 2019: Snow cover trends in Finland over 1961-2014 based on gridded snow depth observations. *Int J Climatol.* 2019;1–13. <https://doi.org/10.1002/joc.6007>

Olsson, T., Perttula, T., Jylhä, K., and Luomaranta, A. 2017: Intense sea-effect snowfall case on the western coast of Finland, *Adv. Sci. Res.*, 14, 231–239.  
<https://doi.org/10.5194/asr-14-231-2017>

Olsson T, Post P, Rannat K, Keernik H, Perttula T, Luomaranta A, Jylhä K, Kivi R, Voormansik T, 2018: Sea-effect snowfall case in the Baltic Sea region analysed by reanalysis, remote sensing data and convection-permitting mesoscale modelling. *Geophysica*, 53(1), 65–91. (pdf)  
[http://www.geophysica.fi/pdf/geophysica\\_2018\\_53\\_olsson.pdf](http://www.geophysica.fi/pdf/geophysica_2018_53_olsson.pdf)

Pellikka, H.; Leijala, U.; Johansson, M. M.; Leinonen, K.; Kahma, K. K., 2018: Future probabilities of coastal floods in Finland. *Continental Shelf Research*, 157, 32–42.  
<https://doi.org/10.1016/j.csr.2018.02.006>

Särkkä, J., Kahma, K.K., Kämäräinen, M., Johansson, M.M., Saku, S., 2017: Simulated extreme sea levels at Helsinki. *Boreal Environment Research* 22: 299–315. (pdf) <http://www.borenv.net/BER/pdfs/ber22/ber22-299-315.pdf>

Ukkonen, P., Manzato, A., Mäkelä, A., 2017: Evaluation of Thunderstorm Predictors for Finland Using Reanalyses and Neural Networks. *J. Appl. Meteor. Climatol.*, 56, 2335–2352. <https://doi.org/10.1175/JAMC-D-16-0361.1>

Ukkonen, P. & Mäkelä, A. (2019). Evaluation of machine learning classifiers for predicting deep convection. *Journal of Advances in Modeling Earth Systems*, 11.  
<https://doi.org/10.1029/2018MS001561>