

# Fredrik Wetterhall

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62 papers	3,951 citations	31 h-index	62 g-index
71 ext. papers	4,455 ext. citations	4.9 avg, IF	5.25 L-index

#	Paper	IF	Citations
62	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. <i>Reviews of Geophysics</i> , <b>2010</b> , 48,	23.1	1021
61	Operational early warning systems for water-related hazards in Europe. <i>Environmental Science and Policy</i> , <b>2012</b> , 21, 35-49	6.2	167
60	Distribution-based scaling to improve usability of regional climate model projections for hydrological climate change impacts studies <b>2010</b> , 41, 211-229		167
59	Deriving global flood hazard maps of fluvial floods through a physical model cascade. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 4143-4156	5.5	143
58	Evaluation of different downscaling techniques for hydrological climate-change impact studies at the catchment scale. <i>Climate Dynamics</i> , <b>2011</b> , 37, 2087-2105	4.2	139
57	Technical review of large-scale hydrological models for implementation in operational flood forecasting schemes on continental level. <i>Environmental Modelling and Software</i> , <b>2016</b> , 75, 68-76	5.2	127
56	Toward Global Drought Early Warning Capability: Expanding International Cooperation for the Development of a Framework for Monitoring and Forecasting. <i>Bulletin of the American Meteorological Society</i> , <b>2013</b> , 94, 776-785	6.1	122
55	The monetary benefit of early flood warnings in Europe. <i>Environmental Science and Policy</i> , <b>2015</b> , 51, 278-291	6.2	116
54	Statistical precipitation downscaling in central Sweden with the analogue method. <i>Journal of Hydrology</i> , <b>2005</b> , 306, 174-190	6	107
53	Evaluation of ensemble streamflow predictions in Europe. <i>Journal of Hydrology</i> , <b>2014</b> , 517, 913-922	6	100
52	The 2010-2011 drought in the Horn of Africa in ECMWF reanalysis and seasonal forecast products. <i>International Journal of Climatology</i> , <b>2013</b> , 33, 1720-1729	3.5	97
51	How do I know if my forecasts are better? Using benchmarks in hydrological ensemble prediction. <i>Journal of Hydrology</i> , <b>2015</b> , 522, 697-713	6	94
50	Tracking the uncertainty in flood alerts driven by grand ensemble weather predictions. <i>Meteorological Applications</i> , <b>2009</b> , 16, 91-101	2.1	88
49	Visualizing probabilistic flood forecast information: expert preferences and perceptions of best practice in uncertainty communication. <i>Hydrological Processes</i> , <b>2013</b> , 27, 132-146	3.3	85
48	Daily precipitation-downscaling techniques in three Chinese regions. <i>Water Resources Research</i> , <b>2006</b> , 42,	5.4	83
47	Modelling climate impact on floods with ensemble climate projections. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2013</b> , 139, 282-297	6.4	73
46	Seasonal forecasts of droughts in African basins using the Standardized Precipitation Index. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 2359-2373	5.5	71

45	Forecasting droughts in East Africa. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 611-620	5.5	69
44	Comparison of drought indicators derived from multiple data sets over Africa. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 1625-1640	5.5	57
43	Skillful seasonal forecasts of streamflow over Europe?. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 2057-2072	5.5	57
42	The Potential Predictability of Fire Danger Provided by Numerical Weather Prediction. <i>Journal of Applied Meteorology and Climatology</i> , <b>2016</b> , 55, 2469-2491	2.7	56
41	Statistical downscaling of daily precipitation over Sweden using GCM output. <i>Theoretical and Applied Climatology</i> , <b>2009</b> , 96, 95-103	3	55
40	Conditioning model output statistics of regional climate model precipitation on circulation patterns. <i>Nonlinear Processes in Geophysics</i> , <b>2012</b> , 19, 623-633	2.9	49
39	HESS Opinions &quot;Forecaster priorities for improving probabilistic flood forecasts&quot;. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 4389-4399	5.5	47
38	Seasonality properties of four statistical-downscaling methods in central Sweden. <i>Theoretical and Applied Climatology</i> , <b>2007</b> , 87, 123-137	3	45
37	Global meteorological drought [Part 2: Seasonal forecasts. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 2669-2678	5.5	44
36	Coupling ensemble weather predictions based on TIGGE database with Grid-Xinjiang model for flood forecast. <i>Advances in Geosciences</i> , <b>2019</b> , 29, 61-67		39
35	The potential value of seasonal forecasts in a changing climate in southern Africa. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 1525-1538	5.5	38
34	Seasonal predictions of agro-meteorological drought indicators for the Limpopo basin. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 2577-2586	5.5	37
33	Using ensemble climate projections to assess probabilistic hydrological change in the Nordic region. <i>Natural Hazards and Earth System Sciences</i> , <b>2011</b> , 11, 2295-2306	3.9	33
32	Climate impacts on river flow: projections for the Medway catchment, UK, with UKCP09 and CATCHMOD. <i>Hydrological Processes</i> , <b>2010</b> , 24, 3476-3489	3.3	31
31	Willingness-to-pay for a probabilistic flood forecast: a risk-based decision-making game. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 3109-3128	5.5	31
30	Global meteorological drought [Part 1: Probabilistic monitoring. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 2657-2667	5.5	30
29	Ensemble flood forecasting: Current status and future opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2020</b> , 7, e1432	5.7	29
28	The extreme runoff index for flood early warning in Europe. <i>Natural Hazards and Earth System Sciences</i> , <b>2014</b> , 14, 1505-1515	3.9	26

27	On the Operational Implementation of the European Flood Awareness System (EFAS) <b>2016</b> , 313-348		25
26	Prediction of the Caspian Sea level using ECMWF seasonal forecasts and reanalysis. <i>Theoretical and Applied Climatology</i> , <b>2014</b> , 117, 41-60	3	23
25	Using the Fire Weather Index (FWI) to improve the estimation of fire emissions from fire radiative power (FRP) observations. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 5359-5370	6.8	23
24	Assessment of a 1-hour gridded precipitation dataset to drive a hydrological model: a case study of the summer 2007 floods in the Upper Severn, UK <b>2013</b> , 44, 89-105		22
23	Investigating the application of climate models in flood projection across the UK. <i>Hydrological Processes</i> , <b>2014</b> , 28, 2810-2823	3.3	19
22	Building a Multimodel Flood Prediction System with the TIGGE Archive. <i>Journal of Hydrometeorology</i> , <b>2016</b> , 17, 2923-2940	3.7	18
21	The benefit of seamless forecasts for hydrological predictions over Europe. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 3409-3420	5.5	18
20	Characterising droughts in Central America with uncertain hydro-meteorological data. <i>Theoretical and Applied Climatology</i> , <b>2019</b> , 137, 2125-2138	3	17
19	Potential of Pan-European Seasonal Hydrometeorological Drought Forecasts Obtained from a Multihazard Early Warning System. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E368-E393	6.1	17
18	The extreme forecast index at the seasonal scale. <i>Atmospheric Science Letters</i> , <b>2013</b> , 14, 256-262	2.4	16
17	Forecast convergence score: a forecaster's approach to analysing hydro-meteorological forecast systems. <i>Advances in Geosciences</i> , <b>2019</b> , 29, 27-32		16
16	Effects of temporal resolution of input precipitation on the performance of hydrological forecasting. <i>Advances in Geosciences</i> , <b>2019</b> , 29, 21-25		15
15	How do I know if I've improved my continental scale flood early warning system?. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 044006	6.2	14
14	Improving Forecasts of Biomass Burning Emissions with the Fire Weather Index. <i>Journal of Applied Meteorology and Climatology</i> , <b>2017</b> , 56, 2789-2799	2.7	13
13	GloFAS-ERA5 operational global river discharge reanalysis 1979-present		13
12	Hydrological drought forecasts outperform meteorological drought forecasts. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 084010	6.2	12
11	Imbalanced land surface water budgets in a numerical weather prediction system. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 4411-4417	4.9	11
10	Advances in the application and utility of subseasonal-to-seasonal predictions. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 1-57	6.1	9

9	Model inter-comparison between statistical and dynamic model assessments of the long-term stability of blanket peat in Great Britain (1940–2009). <i>Climate Research</i> , <b>2010</b> , 45, 227-248	1.6	9
8	Seasonal predictions of agro-meteorological drought indicators for the Limpopo basin <b>2014</b> ,		5
7	Global Flood Forecasting for Averting Disasters Worldwide. <i>Geophysical Monograph Series</i> , <b>2018</b> , 205-228.	1.1	4
6	Combining fire radiative power observations with the fire weather index improves the estimation of fire emissions <b>2017</b> ,		3
5	Skilful seasonal forecasts of streamflow over Europe?		3
4	Hydrological Challenges in Meteorological Post-processing <b>2019</b> , 239-253		3
3	Hydrological Ensemble Prediction Systems Around the Globe <b>2019</b> , 1187-1221		2
2	The benefit of seamless forecasts for hydrological predictions over Europe		2
1	Hydrological Challenges in Meteorological Post-processing <b>2016</b> , 1-15		