

Scientific Publications

Five most cited Articles, according to Web of Science (Jan. 2021):

Hrachowitz, M. et al. 2013. A decade of Predictions in Ungauged Basins (PUB) - a review. *Hydrological Sciences Journal*, 58(6):1198-1255, DOI:10.1080/02626667.2013.803183 **No citations: 460**

Verthoeven, J.T.A., Arheimer, B., Yin, C., Hefting, M.M. 2006. Regional and global concerns over wetlands and water quality. *Trends in Ecology and Evolution* 21(2):96-103. **No citations: 431**

Montanari, A. et al. 2013. “Panta Rhei – Everything Flows”: Change in hydrology and society – The IAHS Scientific Decade 2013-2022. *Hydrological Sciences Journal*, 58(6):1256-1275, doi:10.1080/02626667.2013.809088. **No citations: 348**

Hall, J., Arheimer, B., Borga, M, Brázdil, R., et al. 2014. Understanding Flood Regime Changes in Europe: A state of the art assessment, *Hydrol. Earth Syst. Sci. (HESS)*, 18, 2735–2772 (doi:10.5194/hess-18-2735-2014). **No citations: 248**

Lindström, G., Pers, C.P., Rosberg, R., Strömqvist, J., and Arheimer, B. 2010. Development and test of the HYPE (Hydrological Predictions for the Environment) model – A water quality model for different spatial scales. *Hydrology Research* 41.3-4:295-319. **No citations: 242**

Journal Articles (peer-reviewed)

1. J. Merks , Photiadou, C., Ludwig, F. and Arheimer, B., 2020. Comparison of open access global climate services for hydrological data, *Hydrological Sciences Journal*, DOI: 10.1080/02626667.2020.1820012. <https://doi.org/10.1080/02626667.2020.1820012>
2. Hundecha, Y., Arheimer, B., Berg, P., Capell, R., Musuza, J., Pechlivanidis, I. and Photiadou, C. 2020. Effect of model calibration strategy on climate projections of hydrological indicators at a continental scale. *Climatic Change* 163:1287–1306. <https://doi.org/10.1007/s10584-020-02874-4>
3. Du, T.L.T., Lee, H., Bui, D.D., Arheimer, B., Li, H-Y., Olsson, J., Darby, S.E., Sheffield, J., Kim, D., and Hwang, E. 2020. Streamflow prediction in “geopolitically ungauged” basins using satellite observations and regionalization at subcontinental scale. *Journal of Hydrology*, ISSN: 0022-1694, Vol: 588, Page: 125016. <https://doi.org/10.1016/j.jhydrol.2020.125016>
4. Stadnyk, T.A., MacDonald, M.K., Tefs, A., Dery, S.J., Koenig, K., Gustafsson, D., Isberg, K., Arheimer, B., 2020. *Elementa-science of the Anthropocene* 8:43. <https://doi.org/10.1525/elementa.439>
5. Cudennec, C., Lins, H., Uhlenbrook, S. and Arheimer, B., 2020. Editorial – Towards FAIR and SQUARE hydrological data, *Hydrological Sciences Journal*, 65:5, 681-682, DOI: 10.1080/02626667.2020.1739397
6. Arheimer, B., Pimentel, R., Isberg, K., Crochemore, L., Andersson, J. C. M., Hasan, A., and Pineda, L., 2020. Global catchment modelling using World-Wide HYPE (WWH), open data and stepwise parameter estimation, *Hydrol. Earth Syst. Sci.* 24, 535–559, <https://doi.org/10.5194/hess-24-535-2020>
7. Arheimer, B. and Lindström, G. 2019. Detecting changes in river flow caused by wildfires, storms, urbanization, regulation, and climate across Sweden. *Water Resources Research*, 55. <https://doi.org/10.1029/2019WR024759>
8. Crochemore, L., Isberg, K., Pimentel, R., Pineda, L., Hasan, A. and Arheimer, B. 2019. Lessons learnt from checking the quality of openly accessible river flow data worldwide, *Hydrological Sciences Journal*, DOI: 10.1080/02626667.2019.1659509
9. Blöschl, G., Hall, J., Viglione, A., Perdigão, R.A.P., Parajka, J., Merz, B., Lun, D. Arheimer, B., et al. 2019. Changing climate both increases and decreases European river floods. *Nature* 573:108–111. <https://doi.org/10.1038/s41586-019-1495-6>

10. Bartosova, A., Capell, R., Olesen, J. E., Jabloun, M., Refsgaard, J. C., Donnelly, C., . . . Arheimer, B. 2019. Future socioeconomic conditions may have a larger impact than climate change on nutrient loads to the Baltic Sea. *Ambio*, 48(11), 1325-1336. DOI: <https://doi.org/10.1007/s13280-019-01243-5>
11. Höltinger, S., Mikovits, C., Schmidt, J., Baumgartner, J., Arheimer, B., Lindström, G., Wetterlund, E. 2019. The impact of climatic extreme events on the feasibility of fully renewable power systems: a case study for Sweden, *Energy* 178: 695-713, doi: 10.1016/j.energy.2019.04.128
12. Weichselgartner J. and Arheimer B., 2019. Evolving climate services into knowledge-action systems. *Weather, Climate, and Society* 11 (2): 385-399. <https://journals.ametsoc.org/doi/full/10.1175/WCAS-D-18-0087.1>
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2. Alkan-Olsson, J. Andersson, L., Jonsson, A., Arheimer, B. 2009. Lokal åtgärdsplan mot övergödning i Kagebofjärden med tillrinningsområde. Rapport Länsstyrelsen i Östergötland, 2009:3. ISBN 978-91-7488-231-5.
3. Alkan Olsson, J., Jonsson, A., Andersson, A. and Arheimer, B., 2008. Från Vattendragsgrupp till åtgärdsplan mot övergödning. LRF, LU, LiU, SMHI. Broschyr. 8 sid.
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6. Arheimer, B. 2004. Dämpas höga vattenflöden av anlagda våtmarker? VASTRAS årsrapport 2003. Ekblad & Co, Västervik. pp. 21-22.
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11. Arheimer, B., 1999. Kväve från land till Västerhav. Havsmiljön – aktuell rapport om miljötillståndet i Kattegatt, Skagerrak och Öresund. *Kontaktgrupp Hav 1999.*

Web products

Open Data

<http://hypeweb.smhi.se>

<http://vattenwebb.smhi.se>

Climate Service

<http://swicca.climate.copernicus.eu/>

Open Source code

<http://hypecode.smhi.se/>

Hydrological Research at SMHI

www.smhi.se/hydrology-research

Film (for flat screen and dome projection)

<http://www.smhi.se/en/research/research-departments/hydrology/urban-water-vision-eng-1.22093>

YouTube videos

Open science: <https://www.youtube.com/watch?v=KsV7v44T2oY&t=43s>

Open Innovations: <https://www.youtube.com/watch?v=CVoTSPFDLFA&feature=youtu.be>

Open to the world: <https://www.youtube.com/watch?v=-RTEYKrdXf0&t=56s>

Virtual water-Science Laboratory

<http://www.switch-on-vwsl.eu/>