

## Full list of peer-reviewed publications of the HydroBioClim group

Bold face font indicates **group members**

- 2019 Schewe, J., S.N. Gosling, C. Reyer, F. Zhao, P. Ciais, J. Elliott, L. Francois, V. Huber, H.K. Lotze, S.I. Seneviratne, M.T. H. van Vliet, R. Vautard, Y. Wada, L. Breuer, M. Büchner, D.A. Carozza, J. Chang, M. Coll, D. Deryng, A. de Wit, T.D. Eddy, C. Folberth, K. Frieler, A.D. Friend, D. Gerten, L. Gudmundsson, N. Hanasaki, A. Ito, N. Khabarov, H. Kim, P. Lawrence, C. Morfopoulos, C. Müller, H. Müller Schmied, **R. Orth**, S. Ostberg, Y. Pokhrel, T.A.M. Pugh, G. Sakurai, Y. Satoh, E. Schmid, T. Stacke, J. Steenbeek, J. Steinkamp, Q. Tang, H. Tian, D.P. Tittensor, J. Volkholz, X. Wang, and L. Warszawski  
State-of-the-art global models underestimate impacts from climate extremes  
*Nature Communications*, 10, 1005, doi:10.1038/s41467-019-08745-6
- 2018 **Orth, R.**, and G. Destouni  
Drought reduces blue-water fluxes more strongly than green-water fluxes in Europe  
*Nature Communications*, 9, 3602, doi: 10.1038/s41467-018-06013-7
- Balsamo, G., A. Agusti-Parareda, C. Albergel, G. Arduini, A. Beljaars, J. Bidlot, N. Bousserez, S. Boussetta, A. Brown, R. Buizza, C. Buontempo, F. Chevallier, M. Choulga, H. Cloke, M.F. Cronin, M. Dahoui, P. De Rosnay, Paul A. Dirmeyer, M. Drusch, E. Dutra, M.B. Ek, P. Gentine, H. Hewitt, S.P.E. Keeley, Y. Kerr, S. Kumar, C. Lupu, J.-F. Mahfouf, J. McNorton, S. Mecklenburg, K. Mogensen, J. Muñoz-Sabater, **R. Orth**, F. Rabier, R. Reichle, B. Ruston, F. Pappenberger, I. Sandu, S.I. Seneviratne, S. Tietsche, I.F. Trigo, R. Uijlenhoet, N. Wedi, R.I. Woolway, and X. Zeng  
Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review  
*Remote Sens.*, 10(12), 2038, doi:10.3390/rs10122038
- Christiansen, B., C. Alvarez-Castro, N. Christidis, A. Ciavarella, I. Colfescu, T. Cowan, J. Eden, M. Hauser, N. Hempelmann, K. Klehmet, F. Lott, C. Nangini, G.-J. Van Oldenborgh, **R. Orth**, P. Stott, S. Tett, R. Vautard, L. Wilcox, and P. Yiou  
Was the Cold European Winter of 2009/10 Modified by Anthropogenic Climate Change? An Attribution Study  
*J. Climate*, 31, 3387-3410, doi: 10.1175/JCLI-D-17-0589.1
- Vautard, R., N. Christidis, A. Ciavarella, C. Alvarez-Castro, O. Bellprat, B. Christiansen, I. Colfescu, T. Cowan, F. Doblas-Reyes, J. Eden, M. Hauser, G. Hegerl, N. Hempelmann, K. Klehmet, F. Lott, C. Nangini, **R. Orth**, S. Radanovics, S.I. Seneviratne, G.J. van Oldenborgh, P. Stott, S. Tett, L. Wilcox, and P. Yiou  
Evaluation of the HadGEM3-A simulations in view of detection and attribution of human influence on extreme events in Europe  
*Clim. Dyn.*, doi: 10.1007/s00382-018-4183-6
- Wartenburger, R., S.I. Seneviratne, M. Hirschi, J. Chang, P. Ciais, D. Deryng, J. Elliott, C. Folberth, S.N. Gosling, L. Gudmundsson, A.-J. Henrot, T. Hickler, A. Ito, N. Khabarov, H. Kim, G. Leng, J. Liu, X. Liu, Y. Masaki, C. Morfopoulos, C. Müller, H. Müller Schmied, K. Nishina, **R. Orth**, Y. Pokhrel, T.A.M. Pugh, Y. Satoh, S. Schaphoff, E. Schmid, J. Sheffield, T. Stacke, J. Steinkamp, Q. Tang, W. Thiery, Y. Wada, X. Wang, G. Weedon, H. Yang, and T. Zhou  
Evapotranspiration simulations in ISIMIP2a—Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets  
*Env. Res. Lett.*, 13, 075001, doi: 10.1088/1748-9326/aac4bb