

2020

- Fersch, B., Francke, T., Heistermann, M. ... **Blume, T.** ... **Güntner, A.** ... **Rasche, D.** ... Oswald, S. (2020): **A dense network of cosmic-ray neutron sensors for soil moisture observation in a pre-alpine headwater catchment in Germany.** Earth Syst. Sci. Data 12: 2289–2309. <https://essd.copernicus.org/articles/12/2289/2020/>
- Graf, A., Klosterhalfen, A., Arriga, N., ... **Sachs, T.**, ... Vereecken, H. (2020): **Altered energy partitioning across terrestrial ecosystems in the European drought year 2018.** Philosophical Transactions of the Royal Society B - Biological Sciences, 375, 1810, 20190524. <https://doi.org/10.1098/rstb.2019.0524>
- Kaiser, K.**, Hrubý, P., Tolksdorf, J. F., Alper, G., Herbig, C., Kocár, P., Petr, L., Schulz, L., **Heinrich, I.** (2020): **Cut and covered: Subfossil trees in buried soils reflect medieval forest composition and exploitation of the central European uplands.** Geoarchaeology 35(1): 42-62. <https://doi.org/10.1002/gea.21756>
- Kaiser, K.**, Schneider, T., Küster, M., Dietze, E., Fülling, A., Heinrich, S., **Kappler, C.**, Nelle, O., Schult, M., Theuerkauf, M., Vogel, S., de Boer, A. M., Börner, A., Preusser, F., Schwabe, M., Ulrich, J., Wirner, M., **Bens, O.** (2020): **Palaeosols and their cover sediments of a glacial landscape in northern central Europe: Spatial distribution, pedostratigraphy and evidence on landscape evolution.** Catena 193: 104647. <https://doi.org/10.1016/j.catena.2020.104647>
- Koebisch, F.**, **Gottschalk, P.**, Beyer, F., **Wille, C.**, Jurasinski, G., **Sachs, T.** (2020): **The impact of occasional drought periods on vegetation spread and greenhouse gas exchange in rewetted fens.** Phil. Trans. R. Soc. B, 375: 20190685. <https://doi.org/10.1098/rstb.2019.0685>
- Kreuzburg, M., Rezanezhad, F., Milojevic, T., Voss, M., Gosch, L., **Liebner, S.**, ... Rehder, G. (2020): **Carbon release and transformation from coastal peat deposits controlled by submarine groundwater discharge: a column experiment study.** Limnology and Oceanography 65(5): 1116-1135, <https://doi.org/10.1002/lno.11438>
- Lampert, A., Pätzold, F., Asmussen, M. O., Lobitz, L., Krüger, T., Rausch, T., **Sachs, T.**, **Wille, C.**, Sotomayor Zakharov, D., Gaus, D., Bansmer, S., Damm, E. (2020): **Studying boundary layer methane isotopy and vertical mixing processes at a rewetted peatland site using an unmanned aircraft system.** Atmospheric Measurement Techniques 13: 1937-1952. <https://doi.org/10.5194/amt-13-1937-2020>
- Müller, C., Hethke, M., Riedel, F., **Helle, G.** (2020): **Inter- and intra-tree variability of carbon and oxygen stable isotope ratios of modern pollen from nine European tree species.** Plos One, 15, 6, e0234315. <https://doi.org/10.1371/journal.pone.0234315>
- Pastorello, G., Trotta, C., Canfora, E., ... **Sachs, T.** ... **Wille, C.**, et al. (2020): **The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data.** Scientific Data, 7, 225. <https://doi.org/10.1038/s41597-020-0534-3>
- Pauly, M., **Helle, G.**, Büntgen, U., Wacker, L., Treydte, K., Reinig, F., Turney, C., Nievergelt, D., Kromer, B., Friedrich, M., Sookdeo, A., Heinrich, I., Riedel, F., Balting, D., **Brauer, A.** (2020): **An annual-resolution stable isotope record from Swiss subfossil pine trees growing in the late Glacial.** Quaternary Science Reviews 247: 106550. <https://doi.org/10.1016/j.quascirev.2020.106550>

- Tveit, A.T., Kiss, A., Winkel, M., Horn, F., Hájek, T., Svenning, M. M., **Liebner, S.** (2020): **Environmental patterns of brown moss-and Sphagnum-associated microbial communities.** Scientific reports 10(1): 1-16. <https://doi.org/10.1038/s41598-020-79773-2>
- Vallentin, C., Dobers, E.S., **Itzerott, S.**, Kleinschmit, B., **Spengler, D.** (2020): **Delineation of management zones with spatial data fusion and belief theory.** Precision Agriculture, 21, 802-830. <https://doi.org/10.1007/s11119-019-09696-0>
- Ward, K., Chabrilat, S., Brell, M., Castaldi, F., **Spengler, D.**, Förster, S. (2020): **Mapping Soil Organic Carbon for Airborne and Simulated EnMAP Imagery Using the LUCAS Soil Database and a Local PLSR.** Remote Sensing, 12, 20,3451. <https://doi.org/10.3390/rs12203451>