

Publications

Updated in October 2021. Articles that were part of the PhD are marked with a *.

Numbers indicate the total amount of peer-reviewed articles. The number of articles in ISI-listed journals is given in brackets.

2021

29(24) Römer P, Hartl C, Schneider L, Bräuning A, Szymczak S, Huneau F, Lebre S, Reinig F, Büntgen U, Esper J (2021) Reduced Temperature Sensitivity of Maximum Latewood Density Formation in High-Elevation Corsican Pines under Recent Warming. *Atmosphere* 12: 804.

28(23) Yang B, Qin C, Bräuning A, Osborn TJ, Trouet V, Ljungqvist FC, Esper J, Schneider L, Griesinger J, Büntgen U, Rossi S, Dong G, Yan M, Ning L, Wang J, Wang X, Wang S, Luterbacher J, Cook ER, Stenseth NC (2021) Long-term decrease in Asian monsoon rainfall and abrupt climate change events over the past 6,700 years. *Proceedings of the National Academy of Sciences* 118, e2102007118.

2020

27(22) Ljungqvist FC, Piermattei A, Seim A, Krusic PJ, Büntgen U, He M, Kirilyanov A, Luterbacher J, Schneider L, Seftigen K, Stahle D, Villalba R, Yang B, Esper J (2020) Ranking of tree-ring based hydroclimate reconstructions of the past millennium. *Quaternary Science Reviews* 230: 106074.

26(21) Shi C, Macias-Fauria M, Shen M, Sun C, Hu Y, Xia J, Forbes BC, Zhou P, Shi P, Ciais P (2020) Warming-induced unprecedented sub-alpine forest growth over the monsoonal Tibetan Plateau. *Environmental Research Letters* 15.5: 054011.

2019

25(20) Schneider L, Ljungqvist FC, Yang B, Chen F, Chen J, Li J, Hao Z, Ge Q, Talento S, Osborn TJ and Luterbacher J (2019) The impact of proxy selection strategies on a millennium-long ensemble of hydroclimatic records in Monsoon Asia. *Quaternary Science Reviews* 223: 105917.

24(19) Talento S, Schneider L, Werner J and Luterbacher J (2019) Millennium-length precipitation Reconstruction over South-eastern Asia: a Pseudo-Proxy Approach. *Earth System Dynamics* 10, 347-364.

2018

23(18) Esper J, St. George S, Anchukaitis K, D'Arrigo R, Ljungqvist F, Luterbacher J, Schneider L, Stoffel M, Wilson R and Büntgen U (2018) Large-scale, millennial-length temperature reconstructions from tree-rings. *Dendrochronologia* 50, 81-90.

22(17) Zhang H, Werner JP, García-Bustamante E, González-Rouco FJ, Wagner S, Zorita E, Fraedrich K, Jungclaus J, Zhu X, Xoplaki E, Chen F, Duan J, Ge Q, Hao Z, Ivanov M, Talento S, Schneider L, Wang J, Yang B and Luterbacher, J. (2018) East Asian warm season temperature variations over the past two millennia. *Nature Scientific Reports* 8 (1), 7702.

2017

21(16) Anchukaitis KJ, Wilson R, Briffa KR, Büntgen U, Cook ER, D'Arrigo R, Davi N, Esper J, Frank D, Gunnarson BE and others (2017) Last millennium Northern Hemisphere summer temperatures from tree rings: Part II, spatially resolved reconstructions. *Quaternary Science Reviews* 163, 1–22.

20(15) Esper J, Büntgen U, Hartl-Meier C, Oppenheimer C, Schneider L (2017) Northern Hemisphere temperature anomalies during the 1450s period of ambiguous volcanic forcing. *Bulletin of Volcanology* 79, 41.

19(14) Hartl-Meier C, Büntgen U, Smerdon J, Zorita E, Krusic P, Ljungqvist F, Schneider L, Esper J (2017) Temperature covariance in tree-ring reconstructions and climate model simulations over the past millennium. *Geophysical Research Letters*.

18 Hartl-Meier C, Schneider L, Esper J (2017) Site-specific temperature response to seven major volcanic eruptions over the last Millennium. *TRACE* 15, 46–53.

17(13) Oppenheimer C, Wacker L, Xu J, Galván JD, Stoffel M, Guillet S, Corona C, Sigl M, Di Cosmo N, Hajdas I and others (2017) Multi-proxy dating the 'Millennium Eruption' of Changbaishan to late 946 CE. *Quaternary Science Reviews* 158, 164–171.

*16(12) Schneider L, Smerdon JE, Pretis F, Hartl-Meier C, Esper J (2017) An independent record of large volcanic events over the past millennium from reconstructed summer temperatures. *Environmental Research Letters*.

2016

15(11) DÜthorn E, Schneider L, Günther B, Gläser S, Esper J (2016) Ecological and climatological signals in tree-ring width and density chronologies along a latitudinal boreal transect. *Scandinavian Journal of Forest Research* 31, 750–757.

14 Konter O, Traut J, Schneider L, Büntgen U, Esper J, (2016) Evaluating climate sensitivity in tree-ring and Riesling must sugar data from the Palatinate (Germany). *TRACE – Tree Rings in Archaeology, Climatology and Ecology* 14, 60–66, doi: 10.2312/GFZ.b103-16042.

*13(10) Pretis F, Schneider L, Smerdon JE, Hendry DF (2016) Detecting Volcanic Eruptions in Temperature Reconstructions by Designed Break-Indicator Saturation. *Journal of Economic Surveys* 30, 403–429.

*12 Schneider L, Smerdon J, Pretis F, Esper J (2016) Volcanic induced cooling in instrumental and tree-ring density data. *TRACE – Tree Rings in Archaeology, Climatology and Ecology* 14, 67–72.

11(9) Wilson R, Anchukaitis KJ, Briffa KR, Büntgen U, Cook ER, D'arrigo R, Davi N, Esper J, Frank D, Gunnarson BE and others (2016) Last millennium northern hemisphere summer temperatures from tree rings: Part I: The long term context. *Quaternary Science Reviews* 134, 1–18.

2015

10(8) Büntgen U, Trnka M, Krusic PJ, Kyncl T, Kyncl J, Luterbacher J, Zorita E, Ljungqvist FC, Auer I, Konter O and others (2015) Tree-Ring Amplification of the Early Nineteenth-Century Summer Cooling in Central Europe. *Journal of Climate* 28, 5272–5288.

*9(7) Esper J, Schneider L, Smerdon JE, Schöne BR, Büntgen U (2015) Signals and memory in tree-ring width and density data. *Dendrochronologia* 35, 62–70.

8(6) DÜthorn E, Schneider L, Konter O, Schön P, Timonen M, Esper J and others (2015) On the hidden significance of differing micro-sites on tree-ring based climate reconstructions. *Silva Fennica* 49, 12.

7(5) Konter O, Esper J, Liebhold A, Kyncl T, Schneider L, DÜthorn E, BÜntgen U (2015) Tree-ring evidence for the historical absence of cyclic larch budmoth outbreaks in the Tatra Mountains. *Trees - Structure and Function* 29, 809–814.

*6(4) Schneider L, Smerdon J, BÜntgen U, Wilson R, Myglan VS, Kirilyanov A, Esper J (2015) Revising midlatitude summer temperatures back to AD 600 based on a wood density network. *Geophysical Research Letters* 42, doi: 10.1002/2015GL063956.

2014

5 Cuenca J, Schneider L, Konter O, DÜthorn E, Esper J, Patón D (2014) Dendrochronological comparison of *Castanea sativa* Mill. and *Quercus pyrenaica* Willd. in southwest Spain. *TRACE – Tree Rings in Archaeology, Climatology and Ecology* 12, 40-45.

4(3) Schneider L, Esper J, Timonen M, BÜntgen U (2014) Detection and evaluation of an early divergence problem in northern Fennoscandian tree-ring data. *Oikos* 123, 559–566.

*3 Schneider L, Smerdon J, BÜntgen U, Myglan V, Esper J (2014) Timing and duration of post-volcanic Northern Hemisphere cooling revealed from tree-ring records of maximum latewood density. *TRACE – Tree Rings in Archaeology, Climatology and Ecology* 12, 73-79.

2013

*2(2) Esper J, Schneider L, Krusic PJ, Luterbacher J, BÜntgen U, Timonen M, Sirocko F, Zorita E (2013) European summer temperature response to annually dated volcanic eruptions over the past nine centuries. *Bulletin of volcanology* 75, 736.

1(1) Wassenburg J, Immenhauser A, Richter D, Niedermayr A, Riechelmann S, Fietzke J, Scholz D, Jochum K, Fohlmeister J, Schröder-Ritzrau A and others (2013) Moroccan speleothem and tree ring records suggest a variable positive state of the North Atlantic Oscillation during the Medieval Warm Period. *Earth and Planetary Science Letters* 375, 291–302.