



Martin Schmid

Address

Eawag
Surface Waters - Research and Management
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Personal Information

born in St. Gallen, 20 May 1971
Swiss citizen
married, 2 sons (2005, 2007)

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Education

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| 1998 – 2001 | Ph. D. thesis, Swiss Federal Research Station for Agroecology and Agriculture (FAL) and University of Berne. Topic: Nitrous oxide emissions from managed grasslands – development and tests of a dynamic model |
| 1991 – 1997 | Diploma in Environmental Sciences, Swiss Federal Institute of technology (ETH), Zürich |
| 1994 – 1997 | Teaching Diploma in Physics and Environmental Education, ETH Zürich |
| 1994 | Cambridge Proficiency in English |

Employment History

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| 2010 – now | Leader of research group Applied System Analysis, Eawag, Kastanienbaum |
| 2007 – 2010 | Scientist, Eawag, Kastanienbaum |
| 2002 – 2007 | Postdoctoral researcher, Eawag, Kastanienbaum |
| 2001 | Civil service, WWF Aargau, environmental education |
| 2000 – 2001 | Scientific assistant, “Schweizer Jugend forscht”, Basel |
| 1994 – 1995 | Teaching assistant, System analysis and geobotanics, ETH Zürich |

Institutional Responsibilities

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| Since 2021 | Member of the Eawag strategy commission |
| Since 2017 | Member of the Eawag staff representation |

Approved Research Projects

Recent and ongoing research projects with principal investigator role

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| 2021 – 2024 | Schmid M, and Bouffard D, Swiss Lake temperature monitoring, FOEN (392 kCHF) |
| 2018 – 2020 | Münch-Alligné C (HES-SO) et al., SmallFlex: Demonstrator for flexible Small Hydropower Plant, SFOE (85 kCHF for Eawag sub-project) |
| 2017 – 2020 | Huwald H (EPFL), Wüest A, Bouffard D, Schmid M. Evolution of stream and lake water temperature under climate change, FOEN (134 kCHF for Eawag sub-project) |
| 2017 – 2020 | Schmid M, Weber C, Brodersen J, Robinson C. Effects of hydropower exploitation on spatio-temporal variability of temperature in downstream rivers. Eawag Discretionary Funds (478 kCHF) |
| 2017 – 2020 | Giardini D (ETHZ) et al., Swiss Competence Center for Energy Research – Supply of Electricity (SCCER-SoE), Phase II, CTI (483 kCHF for Eawag sub-project) |

2015 – 2020	Schmid M. Managing Lake Kivu: moving from a steady-state to a dynamic modelling approach, SNSF (320 kCHF)
2016 – 2019	Schleiss A. (EPFL) et al., FLEXSTOR – solutions for flexible operation of storage hydropower plants in changing environment and market conditions, CTI (78 kCHF for Eawag sub-project)
2014 – 2019	Schmid M. Effects of pumped-storage operations on the connected lakes, Swiss Federal Railways (355 kCHF)
2015 – 2018	Schmid M, Wüest A. Heating and Cooling with Surface Waters, FOEN (197 kCHF)

Supervision

Supervision of PhD students

- as main supervisor: Fabian Bärenbold (defended 2020), Ulrike Kobler (defended 2019), Fabrice Muvundja (2015), KellyAnn Ross (2013), Natacha Pasche (2009)
- as co-supervisor: Elisa Calamita (2020), Thomas Steinsberger (2017), Thuy Kim Phuong Doan (2014), David Finger (2006)

Supervision of MSc students: Sheriffa Shengero (2020), Namakau Muyumbana (2019), Augustin Gafasi (2013), Stefan Hunziker (2010), Päivi Rinta (2009), Lukas Jarc (2007), Pema Dorji (2007), Sirak Robele Gari (2005), Martin Frey (2003)

Teaching

Lecture “Biogeochemical Modelling of Sediments, Lakes and Oceans, ETH Zürich, since 2014 (together with A. Brand/D. Bouffard and M. Vogt)

Organisation of Eawag PEAK Courses on small hydropower (2013) and heat usage from surface waters (2017)

Module Lake Models, PhD Summer School 2010 - Pollutant Dynamics and Biogeochemistry in Lakes

Lecture “Transport and Mixing in Natural Waters”, ETH Zürich, 2008 (together with O. Cirpka)

Professional activities

Since 2015 Member of the Expert Advisory Group for Lake Kivu Monitoring

Since 2014 Member of the Working Group “Dialog Wasserkraft” of Wasser-Agenda 21

2014 – 2020 Board member of the Swiss Competence Center for Energy Research – Supply of Electricity (SCCER-SoE)

Since 2010 Member of the editorial board of the journal *Limnologica*

Reviewer for *Acta Geophysica*, *Annales de Limnologie*, *Aquatic Geochemistry*, *Aquatic Sciences*, *British National Research Council*, *Climatic Change*, *Comptes Rendus Geoscience*, *Deep Sea Research*, *Earth and Planetary Science Letters*, *Ecological Modelling*, *Environmental Modelling and Software*, *Environmental Monitoring and Assessment*, *Environmental Science and Technology*, *Environmental Sciences Europe*, *Geo-Marine Letters*, *Geophysical Research Letters*, *Geoscientific Model Development*, *Global Change Biology*, *Hydrobiologia*, *Hydrology and Earth System Sciences*, *Inland Waters*, *Journal of African Earth Sciences*, *Journal of the American Water Resources Association*, *Journal of Environmental Management*, *Journal of Geophysical Research*, *Journal of Great Lakes Research*, *Journal of Hydrology*, *Journal of Limnology*, *Limnologica*, *Limnology*, *Limnology and Oceanography*, *Marine and Freshwater Research*, *Natural Hazards and Earth System Sciences*, *Nordic Hydrology*, *Proceedings of the Belgian Royal Academy for Overseas Sciences*, *The Royal Society*, *Science of the Total Environment*, *USGS, Water*, *Water Resources Research*

Memberships in Scientific Societies

Association for the Sciences of Limnology and Oceanography (ASLO)

Global Lake Ecological Observatory Network (GLEON)

Martin Schmid – Publications

Peer-reviewed articles

- Jane SF, Hansen GJA, Kraemer BM, Leavitt PR, North RL, Pilla RM, Williamson CE, Woolway RI, Arvola L, Chandra S, DeGaspari C, Diemer L, Dunalska J, Erina O, Flaim G, Grossart H-P, Hambright D, Hein C, Hejzlar J, Janus L, Jones J, Knoll LB, Leach T, Leoni B, MacKay E, Matsuzaki S-I, McBride C, Paterson AM, Jenny J-P, Pierson D, Rogora M, Rusak J, Sadro S, Saulnier-Talbot E, [Schmid M](#), Sommaruga R, Thiery W, Wentzky V, Weyhenmeyer G, Winslow L, Yokota K, Rose KC (2021). Widespread deoxygenation of temperate lakes, *Nature* 594: 66-70 <https://doi.org/10.1038/s41586-021-03550-y>
- Kraemer BM, Pilla RM, Woolway RI, Anneville O, Ban S, Colom-Montero W, Devlin SP, Dokulil MT, Gaiser EE, Hambright KD, Hessen DO, Higgins SN, Jöhnk KD, Keller W, Knoll LB, Leavitt PR, Lepori F, Luger MS, Maberly SC, Müller-Navarra DC, Paterson AM, Pierson DC, Richardson DC, Rogora M, Rusak JA, Sadro S, Salmaso N, [Schmid M](#), Silow E, Sommaruga R, Stelzer JAA, Straile D, Thiery W, Verburg P, Weyhenmeyer GA, Adrian R (2020) *Climate change* 11: 521-529, <https://doi.org/10.1038/s41558-021-01060-3>
- Calamita E, Siviglia A, Gettel G, Franac MJ, Winton RS, Teodoru CR, [Schmid M](#), Wehrli B (2021). Unaccounted CO₂ leaks downstream of large tropical dams. *Proceedings of the National Academy of Sciences* 118: e2026004118; <https://doi.org/10.1073/pnas.2026004118>
- Calamita E, Vanzo D, Wehrli B, [Schmid M](#) (2021). Lake modelling reveals management opportunities for improving water quality downstream of transboundary tropical dams. *Water Resources Research* 57: e2020WR027465. <https://doi.org/10.1029/2020WR027465>
- Aksamit CK, Carolli M, Vanzo D, Weber C, [Schmid M](#) (2021). Macroinvertebrate recovery to varying hydropeaking frequency: a small hydropower plant experiment. *Frontiers in Environmental Science* 8: 602374. <https://doi.org/10.3389/fenvs.2020.602374>
- Råman Vinnå L, Medhaug I, [Schmid M](#), Bouffard D (2021) The vulnerability of lakes along an altitudinal gradient to climate change, *Communications Earth & Environment* 2: 35. <https://doi.org/10.1038/s43247-021-00106-w>
- Bärenbold F, Boehrer B, Grilli R, Mugisha A, von Tümpling W, Umutoni A, [Schmid M](#) (2020). No increasing risk of a limnic eruption at Lake Kivu: intercomparison study reveals gas concentrations close to steady state, *PLoS ONE* 15: e0237836. <https://doi.org/10.1371/journal.pone.0237836>
- Pilla RM, Williamson CE, Adamovich BV, Adrian R, Anneville O, Chandra S, Colom-Montero W, Devlin SP, Dix MA, Dokulil MT, Gaiser EE, Girdner SF, Hambright KD, Hamilton DP, Havens K, Hessen DO, Higgins SN, Huttula TH, Huuskonen H, Isles PDF, Joehnk KD, Jones ID, Keller WB, Knoll LB, Korhonen J, Kraemer BM, Leavitt PR, Lepori F, Luger MS, Maberly SC, Melack JM, Melles SJ, Müller-Navarra DC, Pierson DC, Pislegina HV, Plisnier P-D, Richardson DC, Rimmer A, Rogora M, Rusak JA, Sadro S, Salmaso N, Saros JE, Saulnier-Talbot E, Schindler DE, [Schmid M](#), Shimaraeva SV, Silow EA, Sitoki LM, Sommaruga R, Straile D, Strock KE, Thiery W, Timofeyev MA, Verburg P, Vinebrooke RD, Weyhenmeyer GA, Zadereev E (2020) Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. *Scientific Reports* 10: 20514. <https://doi.org/10.1038/s41598-020-76873-x>
- Carrea L, Woolway RI, Merchant CJ, Dokulil MT, DeGaspari CL, de Eyto E, Kelly S, La Fuente RS, Marszelewski W, May L, Paterson AM, Pulkkanen M, Rusak JA, Rusanovskaya O, Schladow SG, [Schmid M](#), Shimaraeva SV, Silow EA, Timofeyev MA, Verburg P, Watanabe S, Weyhenmeyer GA (2020). Lake surface temperature [in "State of the Climate in 2019"]. *Bulletin of the American Meteorological Society* 101 (8), S26–S28. <https://doi.org/10.1175/BAMS-D-20-0104.1>
- Bärenbold F, [Schmid M](#), Brennwald MS, Kipfer F (2020). Missing atmospheric noble gases in a large tropical lake: the case of Lake Kivu, *Chemical Geology* 532: 119374. <https://doi.org/10.1016/j.chemgeo.2019.119374>

Peer-reviewed articles (continued)

- Calamita E, Schmid M, Kunz M, Nebele-Murisa MR, Magadza CHD, Nyambe I, Wehrli B (2019). Sixty years of Lake Kariba: thermal and oxygen dynamics in the riverine and lacustrine sub-basins. *PLoS ONE* 14(11): e0224679. <https://doi.org/10.1371/journal.pone.0224679>
- Steinsberger T, Müller B, Gerber C, Shafei B, Schmid M (2019). Modeling sediment oxygen demand in a highly productive lake under various trophic scenarios. *PLoS ONE* 14(10): e0222318. <https://doi.org/10.1371/journal.pone.0222318>
- Gaudard A, Råman Vinnå L, Bärenbold F, Schmid M, Bouffard D (2019). Toward an open-access of high-frequency lake modelling and statistics data for scientists and practitioners. The case of Swiss Lakes using Simstrat v2.1. *Geoscientific Model Development* 12: 3955–3974. <https://doi.org/10.5194/gmd-12-3955-2019>
- Weyhenmeyer GA, Hartmann J, Hessen DO, Kopàček J, Hejzlar J, Jacquet S, Hamilton SK, Verburg P, Leach TH, Schmid M, Flaim G, Nöges T, Nöges P, Wentzky VC, Rogora M, Rusak JA, Kosten S, Paterson AM, Teubner K, Higgins SN, Lawrence G, Kangur K, Kokorite I, Cerasino L, Funk C, Harvey R, Moatar F, de Wit H, Zechmeister T (2019). Widespread diminishing anthropogenic effects on calcium in freshwaters. *Scientific Reports* 9: 10450. <https://doi.org/10.1038/s41598-019-46838-w>
- Woolway RI, Merchant CJ, Dokulil MT, de Eyto E, DeGasperi CL, Korhonen J, Marszelewski W, May L, Paterson AM, Rusak JA, Schladow SG, Schmid M, Verburg P, Watanabe S, Weyhenmeyer GA (2019). Lake surface temperature [in "State of the Climate in 2018"]. *Bulletin of the American Meteorological Society* 100 (9): S13-S14. <https://doi.org/10.1175/2019BAMSStateoftheClimate.1>
- Kobler U, Schmid M (2019). Ensemble modelling of ice cover for a reservoir affected by pumped-storage operation and climate change. *Hydrological Processes* 33: 2676-2690, <https://doi.org/10.1002/hyp.13519>
- Lange K, Wehrli B, Åberg U, Bätz N, Brodersen J, Fischer M, Hermoso V, Reidy Liermann C, Schmid M, Wilmsmeier L, Weber C (2019). Small hydropower goes unchecked, *Frontiers in Ecology and the Environment* 17: 256-258. <https://doi.org/10.1002/fee.2049>
- Woolway RI, Weyhenmeyer GA, Schmid M, Dokulil MT, de Eyto E, Maberly SC, May L, Merchant CJ (2019). Substantial increase in minimum lake surface temperatures under climate change. *Climatic Change* 155: 81–94. <https://doi.org/10.1007/s10584-019-02465-y>
- Gaudard A, Wüest A, Schmid M (2019). Using lakes and rivers for extraction and disposal of heat: Estimate of regional potentials. *Renewable Energy* 134: 330-342. <https://doi.org/10.1016/j.renene.2018.10.095>
- Sommer T, Schmid M, Wüest A (2018). The role of double diffusion for the heat and salt balance in Lake Kivu. *Limnology and Oceanography* 64: 650–660. <https://doi.org/10.1002/lno.11066>
- Kobler U, Wüest A, Schmid M (2018). Combined effects of pumped-storage operation and climate change on thermal structure and water quality, *Climatic Change* 152: 413-429. <https://doi.org/10.1007/s10584-018-2340-x>
- Kobler UG, Wüest A, Schmid M (2018). Effects of lake–reservoir pumped-storage operations on temperature and water quality. *Sustainability* 10: 1968. <https://doi.org/10.3390/su10061968>
- Lange K, Meier P, Trautwein C, Schmid M, Robinson C, Weber C, Brodersen J (2018). Basin-scale effects of small hydropower on biodiversity dynamics. *Frontiers in Ecology and the Environment* 16: 397-404. <https://doi.org/10.1002/fee.1823>
- Gaudard A, Weber C, Alexander TJ, Hunziker S, Schmid M (2018). Impacts of using lakes and rivers for extraction and disposal of heat. *WIREs Water* 2018: e1295. <https://doi.org/10.1002/wat2.1295>
- Woolway RI, Carrea L, Merchant CJ, Dokulil MT, de Eyto E, DeGasperi CL, Korhonen J, Marszelewski W, May L, Paterson AM, Rimmer A, Rusak JA, Schladow SG, Schmid M, Shimaraeva SV, Silow EA, Timofeyev MA, Verburg P, Watanabe S, Weyhenmeyer GA (2018). Lake surface temperature [in "State of the Climate in 2017"]. *Bulletin of the American Meteorological Society* 99 (8): S13-S15. <https://doi.org/10.1175/2018BAMSStateoftheClimate.1>

Peer-reviewed articles (continued)

- Bruce LC, Frassl MA, Arhonditsis GB, Gal G, Hamilton DP, Hanson PC, Hetherington AL, Melack JM, Read JS, Rinke K, Rigosi A, Trolle D, Winslow L, Adrian R, Ayala AI, Bocaniov SA, Boehrer B, Boon C, Brookes JD, Bueche T, Busch BD, Copetti D, Cortés A, De Eyto E, Elliott JA, Gallina N, Gilboa Y, Guyennon N, Huang L, Kerimoglu O, Lenters JD, MacIntyre S, Makler-Pick V, McBride CG, Moreira S, Özkundakci D, Pilotti M, Rueda FJ, Rusak JA, Samal NR, Schmid M, Shatwell T, Snorheim C, Soullignac.F., Valerio G, van der Linden L, Vetter M, Vinçon-Leite B, Wang J, Weber M, Wickramaratne C, Woolway RI, Yao H, Hipsey MR (2018) A multi-lake comparative analysis of the General Lake Model (GLM): Stress-testing across a global observatory network. *Environmental Modelling & Software* 102: 274-291. <https://doi.org/10.1016/j.envsoft.2017.11.016>
- Woolway RI, Carrea L, Merchant CJ, Dokulil MT, de Eyto E, DeGasperi CL, Korhonen J, Marszelewski W, May L, Paterson AM, Rimmer A, Rusak JA, Schladow SG, Schmid M, Shimaraeva SV, Silow E, Timofeev MA, Verburg P, Watanabe S, Weyhenmeyer GA (2017). Lake surface temperatures [in "State of the Climate in 2016"], *Bulletin of the American Meteorological Society* 98 (8): S13–S14.
- Steinsberger T, Schmid M, Wüest A, Schwefel R, Wehrli B, Müller B (2017). Organic carbon mass accumulation rate regulates the flux of reduced substances from the sediments of deep lakes, *Biogeosciences* 14: 3275-3285. <https://doi.org/10.5194/bg-14-3275-2017>
- Gaudard A, Schwefel R, Råman Vinnå L, Schmid M, Wüest A, Bouffard D (2017), Optimizing the parameterization of deep mixing and internal seiches in one-dimensional hydrodynamic models: a case study with Simstrat v1.3, *Geoscientific Model Development* 10: 3411–3423. <https://doi.org/10.5194/gmd-10-3411-2017>
- Schmid M, Ostrovsky I, McGinnis DF (2017). Role of gas ebullition in the methane budget of a deep subtropical lake: what can we learn from process-based modeling? *Limnology and Oceanography* 62: 2674-2698. <https://doi.org/10.1002/lno.10598>
- Woolway RI, Dokulil MT, Marszelewski W, Schmid M, Bouffard D (2016). Recent warming of Central European lakes and their response to the 1980s climate shift. *Climatic Change* 142: 505–520. <https://doi.org/10.1007/s10584-017-1966-4>
- Schmid M, Köster O (2016). Excess warming of a Central European lake driven by solar brightening. *Water Resources Research* 52: 8103-8116. <https://doi.org/10.1002/2016WR018651>
- Woolway RI, Cinque K, de Eyto E, DeGasperi CL, Dokulil MT, Korhonen J, Maberly SC, Marszelewski W, May L, Merchant CJ, Paterson AM, Riffler M, Rimmer A, Rusak JA, Schladow SG, Schmid M, Teubner K, Verburg P, Vigneswaran B, Watanabe S, Weyhenmeyer GA (2016). Lake surface temperatures [in "State of the Climate in 2015"], *Bulletin of the American Meteorological Society* 97 (8): S17–S18.
- Ross KA, Schmid M, Ogorka S, Muvundja FA, Anselmetti FS (2015). The history of subaquatic volcanism recorded in the sediments of Lake Kivu; East Africa. *Journal of Paleolimnology* 54: 137-152. <https://doi.org/10.1007/s10933-015-9842-6>
- O'Reilly CM, Sharma S, Gray DK, Hampton SE, Read JS, Rowley RJ, Schneider P, Lenters JD, McIntyre PB, Kraemer BM, Weyhenmeyer GA, Straile D, Dong B, Adrian R, Allan MG, Anneville O, Arvola L, Austin J, Bailey JL, Baron JS, Brookes JD, de Eyto E, Dokulil MT, Hamilton DP, Havens K, Hetherington AL, Higgins SN, Hook S, Izmet'eva LR, Jöhnk K, Kangur K, Kasprzak P, Kumagai M, Kuusisto E, Leshkevich G, Livingstone DM, MacIntyre S, May L, Melack JM, Müller-Navarra DC, Naumenko M, Nöges P, Nöges T, North RP, Plisnier PD, Rigosi A, Rimmer A, Rogora M, Rudstam LG, Rusak JA, Salmaso N, Samal NR, Schindler DE, Schladow G, Schmid M, Schmidt SR, Silow E, Soylu ME, Teubner K, Verburg P, Voutilainen A, Watkinson A, Williamson CE, Zhang G (2015). Rapid and highly variable warming of lake surface waters around the globe. *Geophysical Research Letters* 42: 10'773-10'781. <https://doi.org/10.1002/2015GL066235>
- Ross KA, Gashugi E, Gafasi A, Wüest A, Schmid M (2015). Characterisation of the subaquatic groundwater discharge that maintains the permanent stratification within Lake Kivu; East Africa. *PLoS ONE* 10(3): e0121217. <https://doi.org/10.1371/journal.pone.0121217>

Peer-reviewed articles (continued)

- Janssen ABG, Arhonditsis GB, Beusen A, Bolding K, Bruce L, Bruggeman J, Couture R-M, Downing AS, Elliott JA, Frassl MA, Gal G, Gerla DJ, Hipsey MR, Hu F, Ives SC, Janse JH, Jeppesen E, Jöhnk KD, Kneis D, Kong X, Kuiper JJ, Lehmann MK, Lemmen C, Özkundakci D, Petzoldt T, Rinke K, Robson BJ, Sachse R, Schep SA, Schmid M, Scholten H, Teurlincx S, Trolle D, Troost TA, Van Dam AA, Van Gerven LPA, Weijerman M, Wells SA, Mooij WM (2015). Exploring, exploiting and evolving diversity of aquatic ecosystem models: a community perspective. *Aquatic Ecology* 49: 513-548. <https://doi.org/10.1007/s10452-015-9544-1>
- Tsimitri C, Rockel B, Wüest A, Budnev N, Sturm M, Schmid M. (2015). Drivers of deep-water renewal events observed over 13 years in the South Basin of Lake Baikal, *Journal of Geophysical Research - Oceans* 120: 1508–1526. <https://doi.org/10.1002/2014JC010449>
- Doan TKP, Némery J, Schmid M, Gratiot N (2015). Eutrophication of turbid tropical reservoirs: scenarios of evolution of the reservoir of Cointzio, Mexico. *Ecological Informatics* 29: 192–205. <https://doi.org/10.1016/j.ecoinf.2015.01.006>
- Toffolon M, Piccolroaz S, Majone B, Soja A-M, Peeters F, Schmid M, Wüest A (2014). Prediction of surface water temperature from air temperature in lakes with different morphology. *Limnology and Oceanography* 59: 2185-2202. <https://doi.org/10.4319/lo.2014.59.6.2185>
- Fink G, Schmid M, Wüest A (2014). Large lakes as sources and sinks of anthropogenic heat – capacities and limits. *Water Resources Research* 50: 7285-7301. <https://doi.org/10.1002/2014WR015509>
- Ross KA, Smets B, De Batist M, Hilbe M, Schmid M, Anselmetti FS (2014). Lake-level rise in the late Pleistocene and active subaquatic volcanism since the Holocene in Lake Kivu; East African Rift. *Geomorphology* 221: 274-285. <https://doi.org/10.1016/j.geomorph.2014.05.010>
- Schmid M, Hunziker S, Wüest A (2014). Lake surface temperatures in a changing climate: a global perspective, *Climatic Change* 124: 301-305. <https://doi.org/10.1007/s10584-014-1087-2>
- Fink G, Schmid M, Wahl B, Wolf T, Wüest A (2014). Heat flux modifications related to climate-induced warming of large European lakes. *Water Resources Research* 50: 2072-2085. <https://doi.org/10.1002/2013WR014448>
- Muvundja FA, Wüest A, Isumbusho M, Kaningini BM, Pasche N, Rinta P, Schmid M (2014). Modelling Lake Kivu water level variations over the last seven decades, *Limnologica* 47: 21-33. <https://doi.org/10.1016/j.limno.2014.02.003>
- Sommer T, Carpenter JR, Schmid M, Lueck RG, Schurter M, Wüest A (2013). Interface structure and flux laws in a natural double-diffusive layering. *Journal of Geophysical Research* 118: 6092-6106. <https://doi.org/10.1002/2013JC009166>
- Sommer T, Carpenter JR, Schmid M, Lueck RG, Wüest A (2013). Revisiting microstructure sensor responses with implications for double-diffusive fluxes. *Journal of Atmospheric and Oceanic Technology* 30: 1907-1923. <https://doi.org/10.1175/JTECH-D-12-00272.1>
- Bonalumi M, Anselmetti FS, Wüest A, Schmid M (2012). Modeling of temperature and turbidity in two water basins connected by pumped-storage operations. *Water Resources Research* 48: W08508. <https://doi.org/10.1029/2012WR011844>
- Hering J, Hoffmann S, Meierhofer R, Schmid M, Peter A (2012). Assessing the societal benefits of applied research and expert consulting in water science and technology, *GAIA* 21: 95-101. <https://doi.org/10.14512/gaia.21.2.6>
- Bhattarai S, Ross KA, Schmid M, Anselmetti FS, Bürgmann H (2012). Local conditions structure unique archaeal communities in the anoxic sediments of meromictic Lake Kivu, *Microbial Ecology* 64: 291-310. <https://doi.org/10.1007/s00248-012-0034-x>
- Pasche N, Schmid M, Vazquez F, Schubert CJ, Wüest A, Kessler J, Pack MA, Reeburgh WS, Bürgmann H (2011). Methane sources and sinks in Lake Kivu. *Journal of Geophysical Research - Biogeosciences* 116: G03006. <https://doi.org/10.1029/2011JG001690>
- Durisch-Kaiser E, Schmid M, Peeters F, Kipfer R, Dinkel C, Diem T, Schubert CJ, Wehrli B (2011). What prevents out-gassing of methane to the atmosphere in Lake Tanganyika? *Journal of Geophysical Research - Biogeosciences* 116: G02022. <https://doi.org/10.1029/2010JG001323>

Peer-reviewed articles (continued)

- Pasche N, Alunga G, Mills K, Muvundja F, Ryves DB, Schurter M, Wehrli B, Schmid M (2010). Abrupt onset of carbonate deposition in Lake Kivu during the 1960s: response to food web alteration and hydrological change. *Journal of Paleolimnology* 44: 931-946. <https://doi.org/10.1007/s10933-010-9465-x>
- Matzinger A, Müller B, Niederhauser P, Schmid M, Wüest A (2010). Hypolimnetic oxygen consumption by sediment-based reduced substances in former eutrophic lakes. *Limnology and Oceanography*, *Limnology and Oceanography* 55: 2073-2084. <https://doi.org/10.4319/lo.2010.55.5.2073>
- Schmid M, Busbridge M, Wüest A (2010). Double-diffusive convection in Lake Kivu, *Limnology and Oceanography* 55: 225-238. <https://doi.org/10.4319/lo.2010.55.1.0225>
- MacKay MD, Neale PJ, Arp CD, De Senerpont Domis LN, Fang X, Gal G, Jöhnk K, Kirillin G, Lenters JD, Litchman E, MacIntyre S, Marsh P, Melack J, Mooij WM, Peeters F, Quesada A, Schladow SG, Schmid M, Spence C, Stefan HG, Stokes SL (2009). Modeling lakes and reservoirs in the climate system. *Limnology and Oceanography* 54: 2315-2329. https://doi.org/10.4319/lo.2009.54.6_part_2.2315
- Pasche N, Dinkel C, Müller B, Schmid M, Wüest A, Wehrli B (2009). Physical and biogeochemical limits to internal nutrient loading of meromictic Lake Kivu. *Limnology and Oceanography* 54: 1863-1873. <https://doi.org/10.4319/lo.2009.54.6.1863>
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