

## Curriculum for AB-333/833 in 2022

Mandatory background literature - please notice that the list is not complete. More papers and textbooks is added some weeks ahead of the course start.

Christoffersen, K. S., Amsinck, S. L., Landkildehus, F., Lauridsen, T. L., & Jeppesen, E. 2008. Lake flora and fauna in relation to Ice-melt, water temperature and chemistry at Zackenberg. *In*: H. Meltofte, Christensen, T. R., Elberling, B., M. C. Forchhammer & M. Rasch (Eds.). High-arctic ecosystem dynamics in a changing climate. Ten years of monitoring and research at Zackenberg. *Advances in Ecological Research*, 40, Academic Press. pp. 371-390

Jeppesen, E., Christoffersen, K. S., Rautio, M., and Lauridsen, T. L. 2021. Ecology of Arctic lakes and ponds, pp. 159-180. *In*: Arctic Ecology (Ed. Thomas). pp. 453. Wiley. ISBN 9781118846544.

Hampton, S. E., Marianne V. Moore, Tedy Ozersky, Emily H. Stanley, Christopher M. Polashenski, Aaron W.E. Galloway. 2015. Heating up a cold subject: prospects for under-ice plankton research in lakes, *Journal of Plankton Research*, Volume 37: 277–284. <https://doi.org/10.1093/plankt/fbv002>

Seekell, D. A., Lapierre, J-F., Jenny Ask, J., Bergström, A-K., Deininger, A., Patricia Rodríguez, P., and Karlsson, J. 2015. The influence of dissolved organic carbon on primary production in northern lakes. *Limn. Oceanogr.* 60: 1276-1285. <https://doi.org/10.1002/lno.10096>

Schartau, A. K., Mariash H. L., Christoffersen K. S., Bogan D., Dubovskaya O. P., Fefilova E. B., Hayden B., Ingvason H. R., Ivanova E. A., Kononova O. N., Kravchuk E. S., Lento J., Majaneva M., Novichkova A., Rautio, M., Rühland K. M., Shaftel R., Smol J. P., Vrede T., & Kahilainen K. K. 2021. First circumpolar assessment of Arctic freshwater phytoplankton and zooplankton diversity: Spatial patterns and environmental factors. *Freshw Biol.* 00, 1–18. <https://doi.org/10.1111/fwb.13783>

Svenning, M.-A. and Klemetsen, A., and Olsen, T. 2006. Habitat and food choice of Arctic charr in Linnévatn on Spitsbergen, Svalbard: the first year-round investigation in a High Arctic lake. *Ecology of Freshwater fish* 16: 70-77. <https://doi.org/10.1111/j.1600-0633.2006.00183.x>

Vonk, J. E., Tank, S. E., Bowden, W. B., Laurion, I., Vincent, W. F., Alekseychik, P., Amyot, M., Billet, M. F., Canário, J., Cory, R. M., Deshpande, B. N., Helbig, M., Jammet, M., Karlsson, J., Larouche, J., MacMillan, G., Rautio, M., Walter Anthony, K. M., and Wickland, K. P.: Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems, *Biogeosciences*, 12, 7129–7167, <https://doi.org/10.5194>

Walseng, B., Jensen, T., Dimante-Deimantovica, I., Christoffersen, K. S., Chertoprud, M., Chertoprud, E., ... & Hessen, D. O. (2018). Freshwater diversity in Svalbard: providing baseline data for ecosystems in change. *Polar Biology*, 41(10), 1995-2005. <https://doi.org/10.1007/s00300-018-2340-3>