

### **Peer-reviewed papers:**

**Żarczyński M.**, Tylmann W., Goslar T., 2018, Multiple varve chronologies for the last 2000 years from the sediments of Lake Żabińskie (northeastern Poland) – Comparison of strategies for varve counting and uncertainty estimations, *Quaternary Geochronology* 47, 107–119.

Poraj-Górska A.I., **Żarczyński M.J.**, Ahrens A., Enters D., Weisbrodt D., Tylmann W., 2017. Impact of historical land use changes on lacustrine sedimentation recorded in varved sediments of Lake Jaczno, northeastern Poland. *Catena* 153, 182–193.

Tylmann W., Kinder M., **Żarczyński M.**, Poraj-Górska A., 2016. Preliminary characteristics of laminations in recent sediments from lakes Kamendul and Perty in the Suwałki Landscape Park, northeastern Poland. *Limnol. Rev.* 16, 237–245.

Weisbrodt D., Enters D., **Żarczyński M.J.**, Poraj-Górska A.I., Tylmann W., 2016. Contribution of non-pollen palynomorphs to reconstructions of land-use changes and lake eutrophication: case study from Lake Jaczno, northeastern Poland. *Limnol. Rev.* 16, 247–256.

### **Conference abstracts:**

Tylmann W., Bonk A., Głowacka P., Poraj-Górska A., Szczerba A., **Żarczyński M.**, 2018, Tracking the variability of modern and past sediment fluxes in lakes: A perspective from varved lakes in northeastern Poland. 4th International Conference "Water resources and wetlands". Programme and Book of Abstracts, 5-9 September 2018, Tulcea, Romania: 40-41.

**Żarczyński M.**, Wacnik A., Kinder M., Tylmann W., 2018, Influence of land use changes on lake mixing regime and redox conditions as recorded in varves of Lake Żabińskie, northeastern Poland, 20th International Sedimentological Congress, Abstract Book, 13-17 August 2018, Québec, Canada.

**Żarczyński M.**, Szymańska J., Wacnik A., Tylmann W., 2018, Tracing lake mixing regimes using sedimentological and geochemical proxies in varved sediments: 2000-years-long record from Lake Żabińskie (NE Poland), IPA-IAL 2018 Joint Meeting: Unravelling the Past and Future of Lakes, Abstract Book, 18-21 June 2018, Stockholm, Sweden: 292.

**Żarczyński M.**, Tylmann W., Goslar T., 2018, Multiple varve chronologies for the last 2000 years from the annually laminated sediments of Lake Żabińskie (northeastern Poland) – assessment of strategies for varve counting and uncertainty estimations, IPA-IAL 2018 Joint Meeting: Unravelling the Past and Future of Lakes, Abstract Book, 18-21 June 2018, Stockholm, Sweden: 311.

**Żarczyński M.**, Bonk A., Goslar T., Tylmann W., Sediment fluxes in Lake Żabińskie (northeastern Poland): A 2000 year-long perspective from annually laminated sediment core, PAGES 5th Open Science Meeting, 9-13.05.2015, Zaragoza, Spain. Abstracts Book: 433.

Tylmann W., Bonk A., Pytel J., **Żarczyński M.**, Modern sediment fluxes in Lake Żabińskie (northeastern Poland): A perspective from sediment trapping and limnological measurements, PAGES 5th Open Science Meeting, 9-13.05.2015, Zaragoza, Spain. Abstracts Book: 411.

Poraj-Górska A., Ahrens A., Weisbrodt D., Enters D., **Żarczyński M.**, Tylmann W., 2015, Impact of land-use changes in small catchments on lake sedimentation: case study of Lake Jaczno, northeastern Poland, International Conference “Climate variability and human impacts in Central and Eastern Europe during the last two millennia”, Program and Abstracts Book: 87.

Poraj-Górska A., Bonk A., **Żarczyński M.**, Tylmann W., 2016. Relationships between catchment properties, lake water environment and sediment accumulation in lakes of northern Poland: the project design and preliminary results. International Conference “Lakes, Reservoirs and Ponds. Impacts-Threats-Conservation”, Book of abstract: 169.

Tylmann W., Grosjean M., Amann B., Bonk A., Kinder M., **Żarczyński M.**, 2012. Varved Lake Żabińskie, northeastern Poland: a promising site for high-resolution multi-proxy paleoclimatic reconstructions for the last millennium. 3rd PAGES Varves Working Group Workshop, Terra Nostra 2012/1: 92-93.

**Żarczyński M.**, Tylmann W., Bonk A., Goslar T., 2016, An annually resolved chronology for the last two millennia: potential of the varved sediments from Lake Żabińskie, northeastern Poland, 12<sup>th</sup> International Conference “Methods and absolute chronology”, Geochronometria, Conference Abstracts Series, 1: 92.