

## Main publications

Ilyashuk E.A., **Ilyashuk B.P.**, Tylmann W., Koinig K.A., Psenner R. 2015. Biodiversity dynamics of chironomid midges in high-altitude lakes of the Alps over the past two millennia. *Insect Conservation and Diversity* 8: 547–561. DOI: 10.1111/icad.12137

Heiri O., **Ilyashuk B.**, Millet L., Samartin S., Lotter A.F. 2015. Stacking of discontinuous regional palaeoclimate records: Chironomid-based summer temperatures from the Alpine region. *The Holocene* 25: 137–149. DOI: 10.1177/0959683614556382

**Ilyashuk B.P.**, Ilyashuk E.A., Psenner R., Tessadri R., Koinig K.A. 2014. Rock glacier outflows may adversely affect lakes: lessons from the past and present of two neighboring water bodies in a crystalline-rock watershed. *Environmental Science & Technology* 48: 6192–6200. DOI: 10.1021/es500180c

Heiri O., Brooks S.J., Renssen H., Bedford A., Hazekamp M., **Ilyashuk B.**, Jeffers E.S., Lang B., Kirilova E., Kuiper S., Millet L., Samartin S., Toth M., Verbruggen F., Watson J.E., van Asch N., Lammertsma E., Amon L., Birks H.H., Birks H.J.B., Mortensen M.F., Hoek W.Z., Magyari E., Munõz Sobrino C., Seppä H., Tinner W., Tonkov S., Veski S., Lotter A.F. 2014. Validation of climate model-inferred regional temperature change for late-glacial Europe. *Nature Communications* 5, No. 4914. DOI: 10.1038/ncomms5914

Ilyashuk E.A., **Ilyashuk B.P.**, Kolka V.V., Hammarlund D. 2013. Holocene climate variability on the Kola Peninsula, Russian Subarctic, based on aquatic invertebrate records from lake sediments. *Quaternary Research* 79: 350–361. DOI: 10.1016/j.yqres.2013.03.005

van Hardenbroek M., Heiri O., Parmentier F. J. W., Bastviken D., **Ilyashuk B. P.**, Wiklund J. A., Hall R.I., Lotter A.F. 2013. Evidence for past variations in methane availability in a Siberian thermokarst lake based on  $\delta^{13}\text{C}$  of chitinous invertebrate remains. *Quaternary Science Reviews* 66: 74–84 DOI: 10.1016/j.quascirev.2012.04.009

Ilyashuk E.A., Koinig K.A., Heiri O., **Ilyashuk B.P.**, Psenner R. 2011. Holocene temperature variations at a high-altitude site in the Eastern Alps: a chironomid record from Schwarzsee ob Sölden, Austria. *Quaternary Science Reviews* 30: 176–191. DOI: 10.1016/j.quascirev.2010.10.008

**Ilyashuk B.P.**, Ilyashuk E.A. 2011. Moustached *Pseudodiamesa* is still in waiting for a modern cytogenetic approach and a taxonomic revision: a reply to Willassen. *Chironomus Newsletter on Chironomidae Research* 24.

**Ilyashuk B.P.**, Ilyashuk E.A., Makarchenko E.A., Heiri O. 2010. Midges of the genus *Pseudodiamesa* Goetghebuer (Diptera, Chironomidae): current knowledge and palaeoecological perspective. *Journal of Paleolimnology* 44: 667–676. DOI: 10.1007/s10933-010-9446-0

**Ilyashuk B.P.**, Gobet E., Heiri O., Lotter A.F., van Leeuwen J.F.N., van der Knaap W.O., Ilyashuk E.A., Oberli F., Ammann B. 2009. Lateglacial environmental and climatic changes at the Maloja Pass, Central Swiss Alps, as recorded by chironomids and pollen. *Quaternary Science Reviews* 28: 1340–1353. DOI: 10.1016/j.quascirev.2009.01.007

Malinovsky D., Hammarlund D., **Ilyashuk B.**, Martinsson O., Gelting J. 2007. Variations in the isotopic composition of molybdenum in freshwater lake systems. *Chemical Geology* 236: 181–198. DOI: 10.1016/j.chemgeo.2006.09.006

**Ilyashuk B.P.**, Ilyashuk E.A. 2007. Chironomid record of late-Quaternary climatic and environmental changes from two sites in Central Asia (Tuva Republic, Russia) – local, regional or global causes? *Quaternary Science Reviews* 26: 705–731. DOI: 10.1016/j.quascirev.2006.11.003

Dauval'ter V.A., **Il'yashuk B.P.** 2007. Conditions of formation of ferromanganese nodules in the bottom sediments of lakes at the Baltic shield. *Geochemistry International* 45: 615–619. DOI: 10.1134/S0016702907060092

**Ilyashuk B.P.**, Andreev A.A., Bobrov A.A., Tumskoy V.E., Ilyashuk E.A. 2006. Interglacial history of a palaeo-lake and regional environment: a multi-proxy study of a permafrost deposit from Bol'shoy Lyakhovsky Island, Arctic Siberia. *Journal of Paleolimnology* 35: 855–872. DOI: 10.1007/s10933-005-5859-6

Ilyashuk E.A., **Ilyashuk B.P.**, Hammarlund D., Larocque I. 2005. Holocene climatic and environmental changes inferred from midge records (Diptera: Chironomidae, Chaoboridae, Ceratopogonidae) at Lake Berkut, southern Kola Peninsula, Russia. *The Holocene* 15: 897–914. DOI: 10.1191/0959683605hl865ra

Andreev A.A., Tarasov P.E., **Ilyashuk B.P.**, Ilyashuk E.A., Cremer H., Hermichen W.-D., Wischer F., Hubberten H.W. 2005. Holocene environmental history recorded in the Lake Lyadhej-To sediments, Polar Urals, Russia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 223: 181–203. DOI: 10.1016/j.palaeo.2005.04.004

Il'yashuk E.A., **Il'yashuk B.P.** 2004. Analysis of chironomid remains from lake sediments in paleoecological reconstruction. *Water Resources* 31: 203–214. DOI: 10.1023/B:WARE.0000021581.81107.46

Andreev A.A., Tarasov P.E., Schwamborn G., **Ilyashuk B.P.**, Ilyashuk E.A., Bobrov A.A., Klimanov V.A., Rachold V., Hubberten H.-W. 2004. Holocene paleoenvironmental records from Nikolay Lake, Lena River Delta, Arctic Russia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 209: 197–217. DOI: 10.1016/j.palaeo.2004.02.010

Andreev A.A., Grosse G., Schirrmeister L., Kuzmina S.A., Novenko E.Yu., Bobrov A.A., Tarasov P.E., **Ilyashuk B.P.**, Kuznetsova T.V., Krbetschek M., Meyer H., Kunitsky V.V. 2004. Late Saalian and Eemian palaeoenvironmental history of the Bol'shoy Lyakhovsky Island (Laptev Sea region, Arctic Siberia). *Boreas* 33: 319–348. DOI: 10.1111/j.1502-3885.2004.tb01244.x

**Ilyashuk B.P.**, Ilyashuk E.A., Dauvalter V.A. 2003. Chironomid responses to long-term metal contamination: a paleolimnological study in two bays of Lake Imandra, Kola Peninsula, northern Russia. *Journal of Paleolimnology* 30: 217–230. DOI: 10.1023/A:1025528605002

**Ilyashuk B.P.** 2002. Zoobenthos. In: Moiseenko T.I. (ed.), *Anthropogenic Modifications of Lake Imandra Ecosystem*. Moscow: Nauka, pp. 200–226. ISBN 5-02-006436-X

Ilyashuk E.A., **Ilyashuk B.P.** 2002. Environment reconstructions using chironomid assemblages from sediments. In: Moiseenko T.I. (ed.), *Anthropogenic Modifications of Lake Imandra Ecosystem*. Moscow: Nauka, pp. 257–283. ISBN 5-02-006436-X

**Ilyashuk B.P.** 2002. Growth and production of aquatic mosses in acidified lakes of Karelia Republic, Russia. *Water, Air, and Soil Pollution* 135: 285–290. DOI: 10.1023/A:1014742012441

Liljaniemi P., Vuori K.-M., **Ilyashuk B.P.**, Luotonen H. 2002. Habitat characteristics and macroinvertebrate assemblages in boreal forest streams: relations to catchment silvicultural activities. *Hydrobiologia* 474: 239–251. DOI: 10.1023/A:1016552308537

**Il'yashuk B.P.** 2002. Relict crustaceans under conditions of long-term pollution of subarctic Lake Imandra: Results of observations in 1930–1998. *Russian Journal of Ecology* 33: 200–204. DOI: 10.1023/A:1015483608632

**Ilyashuk B.P.**, Ilyashuk E.A. 2001. Response of alpine chironomid communities (Lake Chuna, Kola Peninsula, northwestern Russia) to atmospheric contamination. *Journal of Paleolimnology* 25: 467–475. DOI: 10.1023/A:1011187520169

- Il'yashuk B.P.** 2001. Ferromanganese nodules in lake sediments as a limiting factor in the development of zoobenthic communities. *Russian Journal of Ecology* 32: 444–446. DOI: 10.1023/A:1012546503984
- Il'yashuk B.P.**, Il'yashuk E.A. 2000. Paleocological analysis of chironomid assemblages of a mountain lake as a source of information for biomonitoring. *Russian Journal of Ecology* 31: 353–358. DOI: 10.1007/BF02828451
- Moiseenko T.I., Dauvalter V.A., **Il'yashuk B.P.**, Kagan L.Ya., Il'yashuk E.A. 2000. Paleocological reconstruction of the anthropogenic load. *Doklady Earth Sciences* 370: 102–105.
- Il'yashuk B.P.** 1999. Littoral oligochaete (Annelida: Oligochaeta) communities in neutral and acidic lakes in the Republic of Karelia, Russia. *Boreal Environment Research* 4: 277–284.  
<http://www.borenv.net/BER/pdfs/ber4/ber4-277-284.pdf>
- Il'yashuk B.P.** 1999. A comparative study of growth and production of aquatic mosses in acidified lakes of Southern Karelia. *Russian Journal of Ecology* 30: 387–391.
- Il'yashchuk B.P.** 1999. Influence of water pH on the macrozoobenthos structure in small forest lakes of southwestern Karelia. *Hydrobiological Journal* 35: 20–28.  
<http://www.begellhouse.com/journals/38cb2223012b73f2,356757aa15ddfa70,3ed338b40d7dfd80.html>
- Golubkov S.M., Balushkina E.V., **Il'yashuk B.P.** 1997. Structure and functioning of benthic animal communities in lakes of acidotrophic and mesotrophic limnogenesis types. In: Alimov, A.F., Bul'on ,V.V. (eds), *The Response of Lake Ecosystems to Changes in Biotic and Abiotic Conditions*. St. Petersburg: Zoological Institute of RAS, pp. 107–118. ISBN 0206-0477
- Ivanova M.B., Bul'on V.V., Nikulina V.N., Pavelyeva E.B., **Il'yashuk B.P.**, Polyakova E.A., Anokhina L.E. 1993. Limnological characteristics of natural acidic lakes in the North-West of Russia. *Russian Journal of Aquatic Ecology* 2: 81–90.