

Publications

Peer-reviewed publications from the collaborators within the Limnology Center

2018

Camille Thomas, Victor Frossard, Marie-Elodie Perga, Tofield-Pasche Natacha, Hilmar Hofmann, Nathalie Dubois, Natalia Belkina, Serge Robert and Emilie Lyautey (2018) **Lateral variations and vertical structure of the microbial methane cycle in the sediment of Lake Onego (Russia)**, Inland Waters 10.1080/20442041.2018.1500227

Damien Bouffard, Galina Zdrovennova, Sergey Bogdanov, Tatyana Efremova, Sébastien Lavanchy, Nikolay Palshin, Arkady Terzhevik, Love Råman Vinnå, Sergey Volkov, Alfred Wüesta, Roman Zdrovennov, and Hugo N. Ulloa: **Under-ice convection dynamics in a boreal lake**, Inland Waters. DOI 10.1080/20442041.2018.1533356 (accepted).

Nikolai N. Filatov, Vyacheslav Baklagin, Efremova Tatyana, Larisa Nazarova, and Nikolay Palshin: **Climate changes on the watersheds of lakes Onego and Ladoga based on the remote sensing and in-situ data**, Inland waters. DOI 10.1080/20442041.2018.1533355 (accepted)

Ena Lucia Suarez, Marie-Caroline Tiffay, Nataliia Kalinkina, Tatjana Tchekryzheva, Andrey Sharov, Elena Tekanova, Maria Syarki, Roman E. Zdrovennov, Elena Makarova, Evanthia Mantzouki, Patrick Venail and Bastiaan W. Ibelings: **Diurnal variation in the convection-driven vertical distribution of phytoplankton under ice and after ice-off in large Lake Onego (Russia)**, DOI 10.1080/20442041.2018.1559582. Inland Waters (accepted)

Ulloa, H.N., A Wüest, and D. Bouffard (2018): **Mechanical energy budget and mixing efficiency for radiatively heated ice-covered waterbody**. Journal of Fluid mechanics, 852. <https://doi.org/10.1017/jfm.2018.587>

Volkov S., Bogdanov S., Zdrovennov R., Zdrovennova G., Terzhevik A., Palshin N., Bouffard D., Kirillin G. 2018. **Fine scale structure of convective mixed layer in ice-covered lakes**. Environmental Fluid Mechanics. <https://doi.org/10.1007/s10652-018-9652-2>.

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Kouraev A.V., Zakharova E.A., Naumenko M.A., Shimaraev M.N., Kostianoy A.G., Hall N.M.J., Suknev A.Y., Remy F. (2016) **Ice regime of Eurasian lakes and internal seas**. Proceedings of the XVI Glaciological Symposium «Past, present, and future of the Earth cryosphere», 24-29 May 2016, St. Petersburg, Russia.

Kouraev A.V., Zakharova E.A., Naumenko M.N., Shimaraev M.N., Kostianoy A.G., Suknev A.Ya, Filatov N.N., Remy F. (2016) **Ice cover of Eurasian water bodies in a changing climate from satellite and in situ observations**. Proceedings of the ESA Living Planet Symposium, Prague, Czech Republic, 9-13 May 2016

Palshin N.I. and Efremova T.V. (2017) **Thermal structure of the lakes of the North-West of Russia during the freeze-up period**. Geography and Natural Resources. 38(2): 147-153. DOI: 10.1134/S1875372817020056

Filatov N.N. (2017). **Whether a law on the protection of Ladoga and Onega lakes?** Water Magazine. 7 (119):36-41. July 2017 (In Russian with English summary).

Bouffard D., Ulloa H. N., Zdorovenov R., Zdorovenova G., Volkov S., Bogdanov S., Terzhevik A., Wüest A. (2017). **Boundary layer under an ice-covered lake**. Proceedings of 20th Workshop on Physical Processes in Natural Waters, Hyytiälä, Finland, 21-25 August 2017, p. 15-17

Kouraev A.V., Zakharova E., Filatov N.N., Baklagin S., Barbieux K., Merminod B., Pozdnyakov D.V., Kondrik D.A. (2017) **Multiscale multispectral remote sensing of ice cover in lakes Onego and Ladoga using a combination of spaceborne, aerial drone and ground-based measurements**. Proceedings of the 1st International Conference “Lakes of Eurasia: Problems and solutions”, 11–15 September 2017, Petrozavodsk, Russia

Efremova T.V., Palshin N.I. (2017) **Ice phenology and thermal structure lakes of North-Western Russia during the ice cover period (long-term observational data)**. Proceedings of the 1st International Conference “Lakes of Eurasia: Problems and solutions”, 11–15 September 2017, Petrozavodsk, Russia

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Menshutkin V. and Filatov N. (2017) **Models of Lake Ladoga based on three-dimensional cellular automata**. Proceedings of the Karelian Research Centre of the Russian Academy of Sciences. 93. 10.17076/lim582. (In Russian with English summary).

Сярки М.Т., Фомина Ю.Ю. Зоопланктон Петрозаводской губы Онежского озера в подледный период // Ученые записки Петрозаводского государственного университета. № 6 (167). 2017. С.90-95. [Syarki M., Fomina Y. **Zooplankton of Petrozavodskaya Bay of Onego Lake in under-ice period** // Proceedings of Petrozavodsk state University. 2017. Vol. 6(167). P. 90-95.

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Wüest A, Anselmetti FS, Arey JS, Ibelings BW, Loizeau JL, Vennemann T, Lemmin U (2014) **Into the abyss of Lake Lemman – Interdisciplinary field investigations using the MIR submersibles.** 76 (1):1-6.

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