

FLORISTIC RECORDS

NEW SPECIES TO THE LICHEN FLORA OF RUSSIA AND WESTERN SIBERIA
FROM YAMALO-NENETS AUTONOMOUS AREA

A. I. Mingalimova^{a,b,#} and I. N. Urbanavichene^{a,##}

^a Komarov Botanical Institute RAS

Prof. Popov Str., 2, Saint-Petersburg, 197376, Russia

^b Yugra State University,

Russia Chekhov Str., 16, Khanty-Mansiysk, 628012, Russia

[#]e-mail: ksanne-86@mail.ru

^{##}e-mail: urbanavichene@gmail.com

DOI: 10.31857/S0006813622120079

Based on field research by A.I. Mingalimova in 2019, 11 newly found species from the Nadym District of the Yamalo-Nenets Autonomous Area are recorded. 4 species are new to the lichen flora of the region. Among them, *Arthonia neglectula* is reported for the first time for Russia, three species are new to Western Siberia and Yamalo-Nenets Autonomous Area – *Bryoria americana*, *Cladonia norvegica*, *Lepraria elobata*, and *Sarea difformis*. The information on the localities, ecology and distribution of mentioned species is provided.

Keywords: lichens, new findings, distribution, Russia, Western Siberia, Yamalo-Nenets Autonomous Area

ACKNOWLEDGEMENTS

The authors are grateful to E.D. Lapshina for help in organizing field studies, and to E.A. Davydov for checking the identification of the *Umbilicaria* species. The work of A.I. Mingalimova was carried out within the framework of the grant for organisation of a new young researcher laboratory in Yugra State University, as part of the implementation of the National Project “Science and Universities”. The work of I.N. Urbanavichene was carried out within the framework of the State Research Program of the Komarov Botanical Institute of RAS no. AAAA-A18-118022090078-2 “Herbarium collections of BIN RAS (history, conservation, investigation and replenishment)”.

REFERENCES

- Ahti T., Stenroos S. 2013. *Cladonia*. – In: Nordic Lichen Flora. 5: 7–87.
- Andreev M., Kotlov Y., Makarova I. 1996. Checklist of lichens and lichenicolous fungi of the Russian Arctic. – The Bryologist. 99 (2): 137–169.
- Arup U., Ekman S., Lindblom L., Mattsson J.-E. 1993. High performance thin layer chromatography (HPTLC), an improved technique for screening lichen substances. – The Lichenologist. 25 (1): 61–71. <https://doi.org/10.1006/lich.1993.1018>
- Coppins B.J., Aptroot A. 2009. *Arthonia* Ach. – The Lichen Flora of Great Britain and Ireland. London. P. 153–171.
- Davydov E.A. 2017. Family Umbilicariaceae. In: The lichen flora of Russia: genus *Protoparmelia*, families Coenogoniaceae, Gyalectaceae and Umbilicariaceae. Moscow – St.-Petersburg, 66–136 pp. (In Russian).
- Magomedova M.A., Ektova S.N. 2006. 2.5. Lichens. – In: Yamal Peninsula: vegetative cover. Tyumen. P. 117–146 (In Russ.).
- Urbanavichene I.N., Pystina T.N. 2022. *Bryoria* Brodo et D. Hawksw. – In: The Lichen Flora of Russia. Family Parmeliaceae. Moscow – St.-Petersburg. P. 54–77 (In Russ.).
- Urbanavichus G.P. 2010. A checklist of lichen flora of Russia. St.-Petersburg. 194 p.
- Westberg M., Moberg R., Myrdal M., Nordin A., Ekman S. 2021. Santesson’s Checklist of Fennoscandian Lichen-Forming and Lichenicolous Fungi. Uppsala. 933 p.
- Westberg M., Svensson M. 2012. Additions to the lichen flora of Fennoscandia II. – Graphis Scripta. 24: 1–5.
- Zimmermann E., Berger F. 2018. Contribution to the lichenicolous mycobiota of Austria: Records from Tirol I. – Herzogia. 31 (1): 732–762.