

New records of lichens and allied fungi from the Leningrad Region, Russia. VII

Dmitry E. Himelbrant^{1,2}, Irina S. Stepanchikova^{1,2}, Jurga Motiejūnaitė³, Ludmila V. Gagarina² & Alexandra V. Dyomina¹

¹Department of Botany, St. Petersburg State University (SPbSU), Universitetskaya emb. 7–9, 199034 St. Petersburg, Russia. E-mails: d_brant@mail.ru, stepa_ir@mail.ru, shelka-dyomina@ya.ru

²Laboratory of Lichenology and Bryology, Komarov Botanical Institute RAS, Professor Popov St. 2, 197376 St. Petersburg, Russia. E-mail: kvercus@yandex.ru

³Laboratory of Mycology, Institute of Botany, Nature Research Centre, Žalijų Ežerų 49, LT–08406 Vilnius, Lithuania. E-mail: jurga.motiejunaite@botanika.lt

Abstract: Fourteen species of lichens, fifteen lichenicolous fungi and one saprobic fungus are reported for the first time for St. Petersburg, Western or Eastern Leningrad Region. The lichen *Lecidella meiococca* and the lichenicolous fungus *Tremella phaeophysciae* are reported as new to Russia, the lichen *Lecania sambucina* and the lichenicolous fungus *Endococcus tricolorans* are new for the European Russia, the lichens *Buellia arborea*, *Chaenotheca cinerea*, *Bellemerea sanguinea*, resinicolous calicioid fungus *Chaenothecopsis mediarossica* and lichenicolous fungi *Arthonia molendoi*, *Lichenochora obscuroides*, *Pronectria leptaleae*, *Sphaerellothecium cladoniae* are new for the North-Western European Russia. The most interesting records are briefly discussed.

Keywords: lichens, new records, *Chaenotheca cinerea*, *Chaenothecopsis mediarossica*, Leningrad Region, St. Petersburg, European Russia.

INTRODUCTION

This article continues the series of publications on the new and noteworthy findings of lichens and allied fungi from the Leningrad Region and St. Petersburg (see e.g. Kuznetsova et al., 2007; Stepanchikova et al., 2010a, b, 2011a, b, 2013b; Himelbrant et al., 2013, 2015). Of 30 species presented here, 25 are recorded for the first time for St. Petersburg, Leningrad Region, North-Western European Russia, European Russia or Russia.

MATERIAL AND METHODS

The materials were collected by Dmitry E. Himelbrant, Irina S. Stepanchikova, Ludmila V. Gagarina and Aleksandra V. Dyomina in 2015 in the Eastern and Western parts of Leningrad Region or in St. Petersburg (ELR, WLR, and SPb, respectively), and are deposited in the lichen herbaria of Nature Research Centre, Institute of Botany in Vilnius (BILAS) or St. Petersburg State University (LECB). Furthermore, we investigated several specimens of lichens and lichenicolous fungi kept in the herbaria of Komarov Botanical Institute RAS (LE), University of Turku (TUR-V) and University of Helsinki (H). Mentioned specimens were identified by the authors of the paper,

if otherwise, the identifier's name is indicated in the annotation of the species. Lichen substances in the thallus of *Buellia arborea* were analyzed by using the standard technique of thin-layer chromatography (TLC) in solvent system C (Orange et al., 2001).

The names of the main collectors in the species list are abbreviated as follows: DH – Dmitry E. Himelbrant, EV – Edward A. Vainio, IS – Irina S. Stepanchikova, LG – Ludmila V. Gagarina, VR – Veli Räsänen. The subdivision of the Leningrad Region (LR) was published in our previous paper (Stepanchikova et al., 2010b); the following abbreviations have been used here: ELR – Eastern Leningrad Region, SPb – St. Petersburg, WLR – Western Leningrad Region. The biogeographical provinces of Eastern Fennoscandia are abbreviated traditionally (Kotiranta et al., 1998): Ik – Isthmus karelicus, Ka – Karelia australis, Kol – Karelia olonetsensis. Lichenicolous fungi are marked with # and non-lichenized fungi with +. The nomenclature of taxa generally follows Nordin et al. (2011); for the species not mentioned in the checklist, protologues are cited: *Chaenothecopsis mediarossica* (Titov, 2006), *Endococcus tricolorans* (Alstrup, 2003).

THE SPECIES

ABROTHALLUS CAERULESCENS Kotte – WLR, Ka, Vyborg District, former settlement Kaltovedenmaa, ca 7 km N of Veschevo (former Heinjoki) and N from Makarovskoye Lake (former Kaltovesi), 60°47'N, 29°11'E, on thallus of *Xanthoparmelia conspersa* (Ach.) Hale on stone, 16.07.1923, leg. Ilmari Hiitonen (Hiden) (H); former settlement Rokkala, ca 1.5 km NEE of Sovetsky (former St. Johannes), 60°33'N, 28°43'E, on thallus of *X. stenophylla* (Ach.) Ahti & D. Hawksw. on stone, 03.05.1895, leg. Bertil Robert Poppius (H). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Lithuania (Motiejūnaitė, 1999, as *A. bertianus*).

ABSCONDITELLA SPHAGNORUM Vězda et Poelt – ELR, Tikhvin District, «Poddubno-Kusegsky» («Sokoly Mokh») projected protected area, Sokoly Mokh bog, E of Medvezhka River, 60°02'03"N, 33°09'54"E, peatbog, on dead *Sphagnum* sp., 14.08.2015, leg. IS (LECB). – New to ELR, known from WLR (Stepanchikova et al., 2011b). Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Lithuania (Motiejūnaitė et al., 2007), Estonia (Randlane et al., 2015).

ACAROSPORA SINOPICA (Wahlenb.) Körb. – WLR, Ka, Vyborg District, Saima Channel, 60°57'N, 28°35'E, on siliceous stones, two specimens are known: 1852(?), leg. Edwin Nylander (H 8003891) and 18??, leg. Gustaf Selin (H 8003892). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Āboliņa et al., 2015).

ARTHONIA EPIPHYSCIA Nyl. – WLR, Ka, Vyborg District, Vyborg, central part of the town, Tervaniemi Cape (SE of Castle), seashore of the Gulf of Vyborg, 60°43'N, 28°43'E, on thallus of *Physcia* sp. on stone, 05.1875, leg. EV (H). – New

to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016).

ARTHONIA MOLENDOI (Heufl. ex Frauenf.) R. Sant. – WLR, Ka, Vyborg District, Vyborg, central part of town, Tervaniemi Cape (SE of Castle), 60°43'N, 28°43'E, on thallus of *Caloplaca saxicola* (Hoffm.) Nordin on stone, 05.1875, leg. EV (TUR-V 07189); Vyborg, Castle, 60°42'57"N, 28°43'44"E, on thallus of *C. saxicola* on stone, 05.1875, leg. EV (TUR-V 07169); same place, 4 specimens on thalli of *C. decipiens* (Arnold) Blomb. & Forssell on concrete, 05.1875, leg. EV (TUR-V 07124, 07134, 07142, H 8003257). – New to North-Western European Russia. In European Russia known from Republic of Bashkortostan and Krasnodar Territory (Urbanavichus & Urbanavichene, 2011, 2015a). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016), Lithuania (Motiejūnaitė et al., 2011). *Arthonia molendoi* forms compact groups of black convex rounded apothecia on thalli and apothecia of Teloschistaceae and has 2-celled spores with unequal cells, 4–8 per ascus. The closest species *A. epiphyscia* differs by host – it inhabits thalli of *Physcia* spp. (Smith et al., 2009).

BELLEMERIA SANGUINEA (Kremp.) Hafellner & Cl. Roux – WLR, Ka, Vyborg District, between the central part of Sovetsky (former St. Johannes) and Landyshevka (former Kirjola, 2 km S of Sovetsky), 60°31'N, 28°41'E, on siliceous stone, 25.10.1893, leg. Charles E. Boldt (H 8003492). – New to North-Western European Russia. In European Russia known from Republic of Komi (Hermansson et al., 2006). Distribution in Fennoscandia and Baltic countries: Sweden (Nordin et al., 2011). Differs from the related species *B. cinereorufescens* (Ach.) Clauzade & Cl. Roux by higher hymenium, larger spores and thin thallus with abundant apothecia (Foucard, 2001).

BUELLIA ARBOREA Coppins & Tønsberg – WLR, Ik, Priozersk District, Konevets Island, 60°51'N, 30°37'E, on lignum, 16.06.1938, leg. VR [H

8005508, as addition to *Imshaugia aleurites* (Ach.) S. L. F. Meyer]. The specimen contains placodiolic acid. – New to North-Western European Russia. Nearest localities in European Russia known from Republic of Komi (Hermansson et al., 2006) and Murmansk Region (Urbanavichus, 2014). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015). Mostly sterile crustose lichen, distinguished by flat to crater-like well delimited soralia of blue-green to brownish color and presence of placodiolic acid in thallus (Foucard, 2001; Smith et al., 2009).

CALICIUM DENIGRATUM (Vain.) Tibell – WLR, Ka, Vyborg District, «Karel'sky Les» projected protected area, ca 5 km SW of Zalesje (Siisiälä), 61°14'39"N, 29°16'35.4"E, on standing pine deadwood in a peatbog, 23.06.2015, leg. IS (LECB). – New to WLR, relatively widespread in ELR; once reported from SPb (Stepanchikova et al., 2010a), but the specimen in LECB is too small and may belong to some other species. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007), Novgorod Region (Stepanchikova et al., 2013a). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011). Indicator of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

CARBONEA SUPERSPARSA (Nyl.) Hertel – WLR, Ik, Priozersk District, Konevets Island, 60°51'N, 30°37'E, on thallus of *Lecanora polytropa* (Ehrh. ex Hoffm.) Rabenh. on siliceous stone in littoral zone, 16.06.1938, leg. VR (H). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Zhurbenko & Himelbrant, 2002). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015).

CARBONEA VITELLINARIA (Nyl.) Hertel – WLR, Ik, Priozersk District, Konevets Island, 60°51'N, 30°37'E, on thallus of *Candelariella vitellina* (Hoffm.) Müll. Arg. on siliceous stone in littoral zone, 16.06.1938, leg. VR (H). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic

countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Lithuania (Motiejūnaitė et al., 2007).

CHAENOTHECA CINEREA (Pers.) Tibell – WLR, Kingisepp District, N of Velikino village, «Park in the Velikino village» proposed protected area, 59°38'33"N, 28°35'27"E, mixed broad-leaved forest with remains of old manor park, on rough bark of very old *Quercus robur* L., 29.09.2015, leg. DH (LECB). – New to North-Western European Russia. Only report of this species from the North-Western European Russia, Republic of Karelia (Fadeeva et al., 2007: 46) is erroneous and based on confusion with synonymy citation of *Calicium schaeereri* De Not. (Tibell, 1973: 445). According to the latest note of Leif Tibell (1977: 257) under *C. subquercinum* Asah. (synonym of *C. lenticulare* Ach.) and description of *C. schaeereri* in Tibell (Tibell, 1973: 445), this report actually belongs to *C. lenticulare*. The specimen collected in Karelia Onegensis, Suunu-Suoju, 1870, by Johan P. Norrlin (H) also belongs to *C. lenticulare* Ach. The nearest locality in European Russia is Republic of Komi (Hermansson et al., 2006). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Āboliņa et al., 2015), Lithuania (Motiejūnaitė, 1999). Clearly distinguished from other species of *Chaenotheca* by its short-stalked ascomata, light lover part of the stalk, irregularly split excipular edge and very thick and dense white pruina (Fig. 1) on the lower side of excipulum (Tibell, 1999). Probably specialized species of the biologically valuable old-growth broad-leaved forests in the Southern Taiga of North-Western European Russia.

+ CHAENOTHECOPSIS MEDIAROSSICA Titov & Gudovicheva – ELR, Tikhvin District, N of Teterevinye bogs, ca 10 km E of Timoshino (Andronnikov), 59°56'25"N, 34°42'58"E, old-growth spruce forest (age of spruces 170–180 years) with *Vaccinium myrtillus* L. and mosses, on resin of *Picea* sp., 23.07.2015, leg. LG (LECB); vicinity of Ulianitsa River, SE of Shugozero, 59°59'01.5"N, 34°20'11.8"E, swampy spruce forest with *Menyanthes trifoliata* L., on resin of *Picea* sp., 25.07.2015, leg. LG (LECB). – New to North-Western European Russia. Resiniculous calicioid saprobic fungus, possibly endemic for the European Russia; known before only from



Fig. 1. *Chaenotheca cinerea*, thallus and apothecia. Scale bar = 1 mm.

Yaroslavl, Kaluga and Tver regions in Central European Russia (Titov, 2006; Notov et al., 2011). Characterized by two-celled ascospores without ornamentation, long asci, black and shiny apothecia and absence of reaction with any reagents (Titov, 2006). Probably specialized species of the biologically valuable old-growth spruce forests in the Southern Taiga of North-Western European Russia.

CORTICIFRAGA FUEKELII (Rehm) D. Hawksw. & R. Sant. – WLR, Ka, Vyborg District, Kamennogorsk (former Antrea), 60°56'N, 29°09'E, on thallus of *Peltigera* sp. on old iron in shadow, 05.06.1915, leg. Kaarlo Linkola, det. Kaisa Jääskeläinen, 2003 (H 6022606); ELR, Tikhvin District, 8 km NE of Novyj, vicinity of the Golomensky Mokh bog, 59°56'50"N, 33°28'13"E, aspen forest with *Oxalis acetosella* L. between two hills, on thallus of *Peltigera neopolydactyla* (Gyeln.) Gyeln. on bark on trunk base of *Sorbus aucuparia* L., 29.07.2015, leg. LG (BILAS). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016), Lithuania (Motiejūnaitė, 1999).

DERMATOCARPON MEIOPHYLLIZUM Vain. – WLR, Ik, Vyborg District, SE of Yakovlevo (former Mustamäki) and SW of Roschino (former Raivola), Lindulovskaya larch grow (Lintulan

Lehtikuusenmetsä in Finnish), Lindulovskaya Roscha protected area, 60°14'N, 29°32'E, on inundated siliceous stones by Gladyshevka River (former Vammelsuunjoki, Vammeljoki), 09.07.1927, leg. Kaarlo Linkola, det. VR, 1936, conf. Alan Orange, 1995 (H 8004921). During our field investigations in 2015 the species was not found and probably is regionally extinct. In the same locality *Dermatocarpon luridum* (With.) J. R. Laundon now is abundant. – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015; regionally extinct).

ENDOCOCCLUS TRICOLORANS Alstrup – ELR, Bok-sitogorsk District, bog island in the southern part of Yamnitskaya Chist' peatbog, 59°37'55"N, 35°11'17"E, pine forest with spruce and birch, on thallus of *Platismatia glauca* (L.) W. L. Culb. & C. F. Culb. on bark of *Betula* sp. (branch), 05.09.2015, leg. DH & IS (BILAS). – New to European Russia, recently reported from Siberia, Republic of Buryatiya (Zhurbenko & Vershinina, 2014). Distribution in Fennoscandia and Baltic countries: Lithuania (Motiejūnaitė, 2015). Differs from other *Endococcus* species inhabiting hosts of *Parmeliaceae* family in rather large ascospores (8.5–17.8 × 3.0–5.0 μm), which are colourless to pale brownish, verruculose and halonate when young, turning dark brown and smooth-walled when old. The fungus infection causes distinct discolourations of the host thalli, usually surrounded by zonated rim (Alstrup, 1993; Zhurbenko & Vershinina, 2014; Motiejūnaitė, 2015) (Fig. 2).

EPICLADONIA SANDSTEDDEI (Zopf) D. Hawksw. – WLR, Luga District, vicinity of Nizovskaya, 59°06'15"N, 29°59'36"E, wet spruce forest with *Sphagnum* spp., on podetia of *Cladonia cornuta* (L.) Hoffm. ssp. *cornuta* on lignum (spruce stump), 05.03.2015, leg. Alexandra V. Dyomina, Ekaterina I. Rozantseva (BILAS). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016), Lithuania (Motiejūnaitė, 1999).

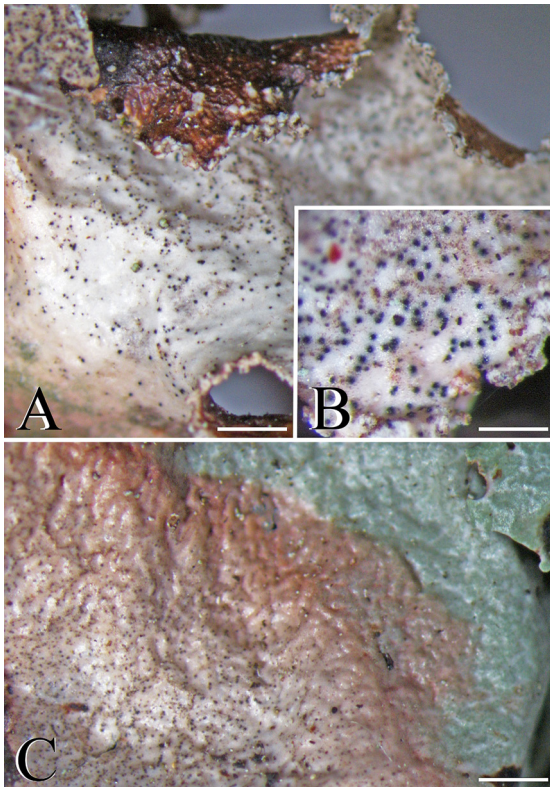


Fig. 2. *Endococcus tricolorans* on thallus of *Platismatia glauca*: A, B – numerous perithecia; C – discolouration with zonated rim. Scale bars: A, C = 1 mm; B = 500 μ m.

LECANIA SAMBUCINA (Körb.) Arnold – WLR, Luga District, right bank of Luga River ca 1 km upstream of Nataljino village, stream valley, 58°57'23"N, 29°46'48"E, linden-elm-aspens forest, on bark of old *Ulmus* sp., 04.10.2015, leg. IS & Aleksandra V. Dyomina (LECB). – New to European Russia except Caucasus. Recently published from Russian Caucasus (Urbanavichus & Urbanavichene, 2015b). Distribution in Fennoscandia and Baltic countries: Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015). This rather rare member of *Lecania cyrtella*-group is characterized by asci with 16 ascospores (Smith et al., 2009) (Fig. 3).

LECIDELLA MEIOCOCCA (Nyl.) Leuckert & Hertel – WLR, Ka, Vyborg District, Vyborg, central part of town, Tervaniemi Cape (SE of Castle), seashore of the Gulf of Vyborg, 60°43'N, 28°43'E, on the big siliceous stone, 1875, leg. AV [TUR-V 09027; as addition to *Rinodina milvina* (Wahlenb.) Th. Fr.]. – New to Russia. Distribution in Fennoscandia and Baltic countries: Norway, Sweden (Nordin et al., 2011). Distinguished from other members of genus by coarsely cracked blastidiate crustose thallus with scurfy appearance, C+ orange and K+ yellow reactions, having dark hypothecium and inhabiting siliceous rocks in maritime territories (Foucard, 2001; Smith et al., 2009).

LEPTOGIUM CYANESCENS (Rabenh.) Körb. – WLR, Luga District, right bank of Luga River op-

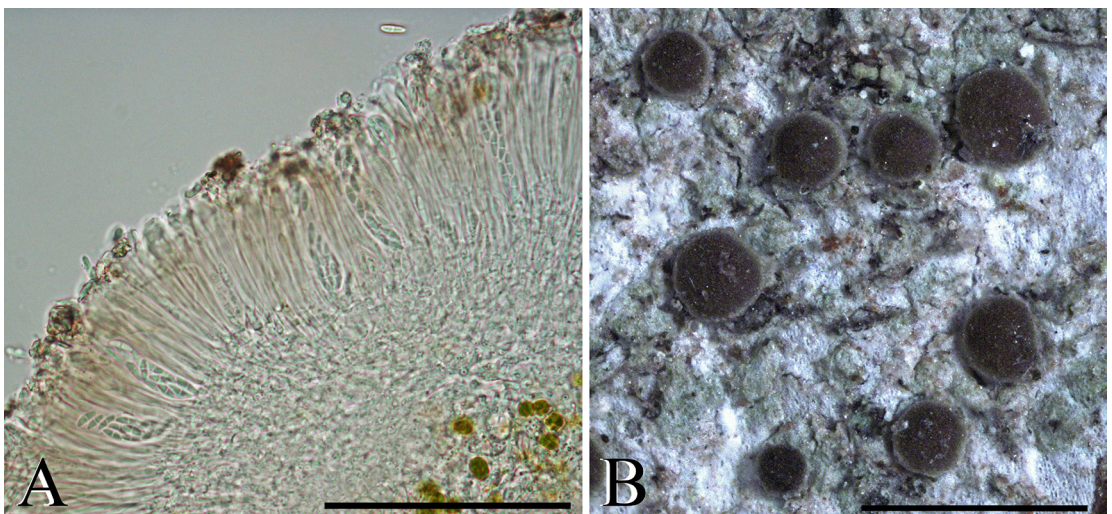


Fig. 3. *Lecania sambucina*: A – hymenium with multisporous asci; B – thallus and apothecia. Scale bars: A = 100 μ m; B = 1 mm.

posite to Kleskushi village, 59°04'42.5"N, 29°24'03.3"E, stream valley, grey alder forest, on bark of *Populus tremula* L., 17.06.2015, leg. IS & Gulnara M. Tagirdzhanova (LECB); same place, ca 1 km upstream of Nataljino village, stream valley, 58°57'24"N, 29°46'48"E, elm forest, on bark of old *Ulmus* sp., 04.10.2015, leg. IS & Aleksandra V. Dyomina (LECB). – The species has been rediscovered in WLR after 88 years; before it was found in 1925–1927 in the same area by Sergey S. Ganeshin on bank of Luga River in vicinity of Vyaz village (Rassadina, 1930b). Known also from ELR (Kuznetsova et al., 2007). Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007), Pskov Region (Istomina & Likhacheva, 2010). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Āboliņa et al., 2015). Indicator of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

LICHENOCHORA OBSCUROIDES (Linds.) Triebel & Rambold – SPb, Krasnoe Selo District, vicinity of Mozhajsky, the eastern slope of Orehovaya hill, 59°41'43"N, 30°07'55"E, hazel thickets with herbs, on thallus of *Phaeophyscia orbicularis* (Neck.) Moberg on bark of *Acer platanooides* L., 13.05.2015, leg. DH & IS (BILAS). – New to North-Western European Russia. Known localities in European Russia: South Ural (Frolov & Paukov, 2005) and Caucasus (Urbanavichus, Ismailov, 2013). Distribution in Fennoscandia and Baltic countries: Sweden (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016), Lithuania (Motiejūnaitė, 1999). Characteristics of our specimen coincided well with these given by Hafellner [1989, as *L. thallina* (Cooke) Hafellner] and Etayo & Navarro-Rosinés (2008): infection causing convex, slightly darkened galls on thalli of the host. Galls contain numerous perithecia that are totally immersed with only ostiole visible (Fig. 4). Section of perithecium contains numerous lipid droplets – a character common to all species of the genus. Ascospores hyaline, ellipsoid, 14–18 × 5–7 μm.

LICHENOCONIUM LECANORAE (Jaap) D. Hawksw. – SPb, Petrodvorets District, vicinity of Lomonosov, 59°52'53"N, 29°48'14"E, pine forest with

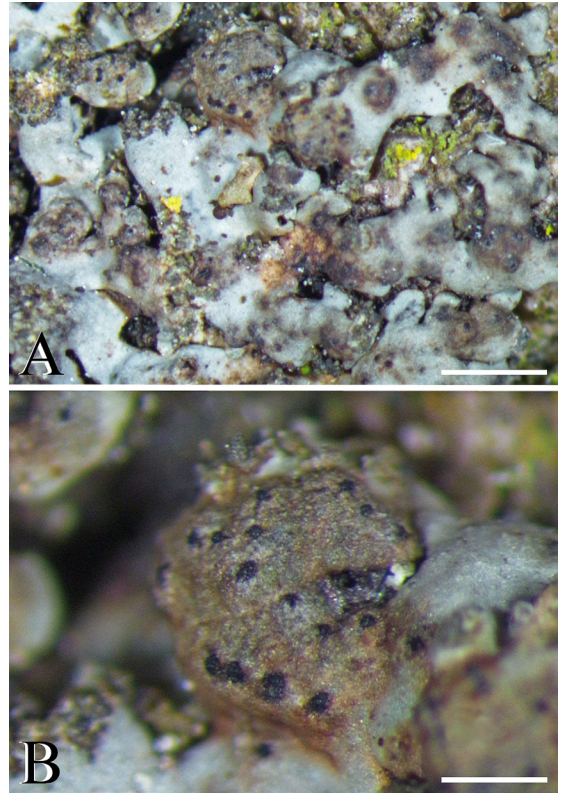


Fig. 4. *Lichenochora obscuroides* on thallus of *Phaeophyscia orbicularis*: A – galls; B – ostioles of perithecia on gall. Scale bars: A = 1 mm; B = 250 μm.

abundant spruce undergrowth, single birches, *Vaccinium myrtillus* and *Sphagnum* spp., on apothecia of *Lecanora carpinea* (L.) Vain. and thallus of *Parmelia sulcata* Taylor on bark of tree, 09.06.2015, leg. IS (BILAS). – New to SPb. Known from WLR (Kuznetsova et al., 2012) and ELR (Himmelbrant et al., 2013). Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016), Lithuania (Motiejūnaitė, 1999).

NEPHROMA PARILE (Ach.) Ach. – SPb, Petrodvorets District, Oranienbaum, Verkhnij Park, near Anglijskaya alley, 59°54'45"N, 29°44'12"E, old historical park, on siliceous stone, 11.10.2015, leg. DH & IS (LECB). – The species has been

rediscovered in St. Petersburg after 88 years; before it was collected in 1926–1927 by Kseniya A. Rassadina in Stary Peterhof and Sergievka park (Rassadina, 1930a), historically also known from Mozhajscoe (Kirchof), 1903, leg. Alexander A. Elenkin (LE L 11125) and Serovo (Vammelsuu), 1893, leg. A. O. Kihlman (H 8000357, 8000357). Rather widespread in ELR and WLR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007), Novgorod Region (Stepanchikova et al., 2013a). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Ābolīna et al., 2015), Lithuania (Motiejūnaitė et al., 2005). Specialized species of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

PRONECTRIA LEPTALEAE (J. Steiner) Lowen – SPb, Petrodvorets District, W side of Ilikovskaya road ca. 330 m N of the Lomonosov city cemetery, 59°53'00"N, 29°44'25"E, aspens along the roadside, on thallus and apothecia of *Physcia aipolia* (Ehrh. ex Humb.) Fűrnr. on bark of *Populus tremula*, 26.09.2015, leg. DH & IS (BILAS). – New to North-Western European Russia. Known localities in European Russia: republics of Komi (Zhurbenko, 2007) and Karachaevo-Cherkesiya (Zhurbenko & Kobzeva, 2014). Distribution in Fennoscandia and Baltic countries: Sweden (Nordin et al., 2011), Estonia (Randlane et al., 2015), Lithuania (Motiejūnaitė et al., 2012). The fungus inhabits hosts of *Physciaceae* family and is reported to have wide variations in characters and sizes of ascospores as well as in ascomata wall colour and reaction in KOH (Brackel, 2014). In our specimen, ascomata wall was yellowish to orange (upper part), KOH–, ascospores subglobose to widely ellipsoid, hyaline, smooth, 9.0–10.5 × 5.0–7.0 μm (n = 20).

SCHISMATOMMA PERICLEUM (Ach.) Branth & Rostr. – SPb, Petrodvorets District, Oranienbaum, Verkhnij Park, Zapadnaya alley, 59°54'53"N, 29°44'33"E, old historical park, on bark of old *Tilia* sp., 11.10.2015, leg. DH & IS (LECB). – The species has been rediscovered in SPb after 122 years; before it was collected by A. O. Kihlman in 1893 in vicinities of Serovo (Stepanchikova et al., 2011a). Known from ELR (Kuznetsova et al., 2007; Stepanchikova et al., 2011a). Dis-

tribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016), Lithuania (Motiejūnaitė, 2006). Specialized species of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

SPHAERELLOTHECIUM CLADONIAE (Alstrup & Zhurb.) Hafellner – SPb, Petrodvorets District, vicinity of Lomonosov, 59°52'59"N, 29°48'29"E, birch forest with willows, *Vaccinium myrtillus* and *Sphagnum* spp., on podetia of *Cladonia coniocraea* (Flörke) Spreng. and *C. chlorophaea* s. l. on lignum, 09.06.2015, leg. IS (BILAS). – New to North-Western European Russia. Nearest localities in European Russia known from Murmansk Region (Urbanavichus et al., 2008) and Republic of Komi (Hermansson et al., 2006). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Lithuania (Motiejūnaitė, 2015). Most of the characteristics of our specimen coincide well with these given in the protologue (Zhurbenko & Alstrup, 2004). Discoloured infection areas were present only on podetia of the host and the superficial mycelial network was not visible (immersed between soredia), perithecia were ¾ immersed between soredia, too.

SPHAERELLOTHECIUM PROPINQUELLUM (Nyl.) Cl. Roux & Triebel – WLR, Ik, Priozersk District, vicinity of Gromovo (former Sakkola), 60°42'N, 30°12'E, on apothecia of *Lecanora carpinea* on bark of *Padus avium* Mill., 01.09.1921, leg. Ilmari Hiitonen (Hiden) (H); Konevets Island, 60°51'N, 30°37'E, on apothecia of *L. carpinea* on bark of *Tilia* sp., 16.06.1938, leg. VR (H 6007649); Kingisepp District, Kurgalsky Isthmus, vicinity of Tiskolovo, 59°43'18"N, 28°02'10"E, grey alder forest with linden and maple, on apothecia of *Lecanora carpinea* on bark of *Alnus incana* (L.) Moench, 15.09.2015, leg. DH, IS (BILAS); same place, 59°43'07"N, 28°02'01"E, broadleaved forest on seashore slope, on apothecia of *L. carpinea* on bark of *Sorbus aucuparia*, 15.09.2015, leg. DH & IS (BILAS). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007).

Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Lithuania (Motiejūnaitė, 1999).

TREMELLA PHAEOPHYSCIAE Diederich & M. S. Christ. – WLR, Ik, Priozersk District, central part of Gromovo (former Sakkola), vicinity of the Lutheran church, 60°42'N, 30°12'E, on thallus of *Phaeophyscia orbicularis* on bark of *Sorbus aucuparia* and *Ulmus* sp., 08.07.1917, leg. VR, det. Teuvo Ahti & IS (five specimens in H: 6004623; 8000726; 8000760, as addition to *Physcia adscendens* H. Olivier; 8000765, as addition to *P. adscendens*; 8000767, as addition to *P. adscendens*). – New to Russia. Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Motiejūnaitė et al., 2016), Lithuania (Motiejūnaitė, 1999). The species is characterized by forming brownish olivaceous galls on thalli of *Phaeophyscia orbicularis*; microscopically it is close to *Tremella cladoniae* Diederich & M. S. Christ. which is parasite on *Cladonia* spp. (Diederich, 1996).

VARICELLARIA RHODOCARPA (Körb.) Th. Fr. – WLR, Ka, Vyborg District, Primorsk (former Koivisto), 60°23'N, 28°36'E, on lignum, 1851, leg. Edwin Nylander, det. Teuvo Ahti (H 8003740). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Fadeeva et al., 2007). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015, as a doubtful record).

XANTHORIICOLA PHYSCIAE (Kalchbr.) D. Hawksw. – SPb, Krasnoe Selo District, vicinity of Mozhajsky, the eastern slope of Orehovaya hill, 59°41'39"N, 30°07'40"E, broad-leaved forest with *Populus tremula* and herbs, on apothecia of *Xanthoria parietina* (L.) Th. Fr. on bark of deciduous tree, 13.05.2015, leg. DH & IS (BILAS). – New to SPb. Known from WLR (Stepanchikova et al., 2011b) and ELR (Kuznetsova et al., 2012). Distribution in North-Western European Russia outside of LR: not reported. Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011), Estonia (Randlane et al., 2015), Latvia (Czarnota & Kukwa, 2010), Lithuania (Motiejūnaitė, 1999).

XYLOGRAPHA TRUNCISEDA (Th. Fr.) Minks ex Redinger – ELR, Kol, Podporozh'e District, right bank of the Svir' River, former Nikola (now inundated by the reservoir Ivinsky Razliv), 61°06'N, 34°50'E, on rotten lignum, 25.06.1875, leg. Frederik Elfving, det. Piret Lõhmus (H). This specimen published by Elfving (1878) as *Xylographa spilomatica* (Anzi) [syn. of *Xylographa vitiligo* (Ach.) J. R. Laundon]; WLR, Ik, Priozersk District, Gromovo (former Sakkola), 60°42'N, 30°12'E, on lignum, 1897, leg. Gustaf W. Lång, det. Toby Spribille (H 8003829). – New to LR. Distribution in North-Western European Russia outside of LR: Republic of Karelia (Tarasova et al., 2015). Distribution in Fennoscandia and Baltic countries: Norway, Sweden, Finland (Nordin et al., 2011).

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