

New records of lichens and allied fungi from the Eastern Leningrad Region

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Abstract: Thirteen species of lichens and one related fungus are reported as new to the Eastern Leningrad Region. Two of them – *Arthonia incarnata* and *Nephromopsis laureri* – are also new to the whole Leningrad Region. One species – *Lauderlindsaya acroglypta* – is new to North-Western European Russia.

Kokkuvõte: Uued teated Leningradi rajooni idaosa samblike ja lähedaste seente kohta.

Teatatakse kolmteistkümne sambliku- ja ühe seeneliigi esmasleidudest Leningradi rajooni idaosas. Neist kaks liiki – *Arthonia incarnata* ja *Nephromopsis laureri* – on uued kogu Leningradi rajoonile. Üks liik – *Lauderlindsaya acroglypta* – on uus Looke-Venemaal.

INTRODUCTION

In 2007 an annotated catalogue of the lichen-forming, lichenicolous and allied fungi of the Eastern Leningrad Region was published (Kuznetsova et al., 2007). It included 520 species and two infraspecific taxa. The catalogue was made on the basis of our collections, revisions of specimens in the herbaria H, H-NYL, LE, LECB, S, TUR-V, and UPS, a critical review of archival manuscripts and literature records published since the first papers in the last quarter of the 1800's (Nylander, 1877; Elfving, 1878). Further investigations in 2007–2008 allowed us to add some new species to the lichen list of the Eastern Leningrad Region. Some of them are new to the whole Leningrad Region and North-Western European Russia.

MATERIALS AND METHODS

Our new field investigations were carried out in July 2007 (Boksitogorsk District) and in the autumn months of 2007 and 2008 (Podporozh'e District). One additional specimen was found in H in 2007. Most of the cited specimens are kept in the herbarium of St. Petersburg State University (LECB), but some are in the Botanical Museum of University of Helsinki (H) and one is in Institute of Botany, Vilnius (BILAS). The collector and reviewer names and districts are abbreviated as follows: AS – Alexey Shorokhov; DH – Dmitry Himelbrant; EK – Ekaterina Kuznetsova; IS – Irina Stepanchikova; JM – Ju-

rga Motiejūnaitė; TA – Teuvo Ahti; B – Boksitogorsk District; L – Lodeynoe Pole District; P – Podporozh'e District. The species included in the Red Data Book of Nature of the Leningrad Region (Tzvelev, 2000) are marked with #, those red-listed in the Russian Federation (Red Data Book of Russian Federation, 2008) with ##, and the single non-lichenized fungus with +.

THE SPECIES

ACROCORDIA CAVATA (Ach.) R. C. Harris – B: Ragusha River Protected Area, 1 km W of Rudnaya Gorka, canyon of the Ragusha River (59°16'N 33°55'E), flood-plain forest, on bark of very old *Ulmus* sp., 24.06.2007, leg. & det. EK (LECB). – More common in the Western Leningrad Region in old-growth broad-leaved forests and old parks. Probably rare in the Eastern Leningrad Region due to scarcity of suitable biotopes and substrates. Habitat specialist of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

ARTHONIA BYSSACEA (Weigel) Almq. – P: NE from Rotmozero Lake, 16 km E of Tokari (61°06'05"N 34°42'27"E), swampy pine forest with black alder and spruce, on bark of *Alnus glutinosa* and *Picea* sp., 29.09.2007, leg. & det. DH & IS (H, LECB). – Rare in the same biotopes in the Western Leningrad Region. Habitat specialist of biologically

- valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).
- ARTHONIA CINEROPRUINOSA Schaer. – P: same place and biotope, on bark of *Alnus glutinosa*, 29.09.2007, leg. & det. DH & IS (H, LECB). – Very rare in the same biotopes in the Western Leningrad Region. Habitat specialist of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).
- ARTHONIA INCARNATA Th. Fr. ex Almq. – P: 15 km NW of Soginitsy, left bank of the Vazhinka River (61°10'30"N 33°52'28"E), old spruce forest in a ravine, on bark of very old *Picea* sp., 04.10.2008, leg. & det. IS & DH (LECB). New to Leningrad Region.
- BACIDIA IGNIARI (Nyl.) Oxner – P: 14 km NW of Soginitsy, close to Rozmeboloto bog (61°11'03"N 33°54'26"E), mature wet spruce-pine forest, on lignum of *Betula* sp., 04.10.2008, leg. & det. DH & IS (LECB). – Rare in the Western Leningrad Region.
- BUELLIA ARNOLDII Servit – P: 7 km WNW of Sobolevshchina, W from Yuksovskoe Lake, right bank of the Shimaksa River (60°55'27"N 34°51'29"E), old aspen-spruce forest, on bark of old *Picea* sp., 02.10.2008, leg. & det. IS & DH (LECB). – Rare in the Western Leningrad Region. Habitat specialist of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).
- CALOPLACA DECIPIENS (Arnold) Blomb. & Forsell – L: Staraya Sloboda, on concrete, 08.06.2000, leg. & det. TA, conf. EK (H). – Rather common in the Western Leningrad Region.
- CHAENOTHECA CHLORELLA (Ach.) Müll. Arg. – P: NE from Rotmozero Lake, 16 km E of Tokari (61°06'05"N 34°42'27"E), swampy pine forest with black alder and spruce, on bark of *Alnus glutinosa* and on lignum of *Picea* sp., 29.09.2007, leg. & det. DH & IS (H, LECB); 7 km WNW of Sobolevshchina, W from Yuksovskoe Lake, right bank of the Shimaksa River (60°55'27"N 34°51'29"E), old aspen-spruce forest, on lignum of *Picea* sp., 02.10.2008, leg. & det. IS & DH (LECB); 15 km W of Soginitsy, left bank of the Vazhinka River (61°09'57"N 33°52'19"E), old spruce forest, on lignum of old *Picea* sp., 03.10.2008, leg. & det. IS & DH (LECB); 14 km NW of Soginitsy, close to Rozmeboloto bog (61°11'03"N 33°54'26"E), mature wet spruce-pine forest, on bark of old *Picea* sp., 04.10.2008, leg. & det. DH & IS (LECB). – Rather rare in the Western Leningrad Region. Habitat specialist of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).
- EOPYRENULA LEUCOPLACA (Wallr.) R. C. Harris – P: 12 km N of Sobolevshchina, N from Yuksovskoe Lake (61°00'31"N 33°58'45"E), mixed aspen-birch-pine forest, on bark of *Populus tremula*, 26.09.2007, leg. & det. DH & IS (LECB). – Rather rare in the Western Leningrad Region.
- LAUDERLINDSAYA ACROGLYPTA (Norman) R. Sant. – P: NE from Rotmozero Lake, 16 km E of Tokari (61°06'N 34°43'E), spruce forest with old aspens, on mosses on bark of *Populus tremula*, 28.09.2008, leg. & det. DH & IS, conf. JM (LECB); same place and biotope (61°06'19"N 34°43'14"E), on mosses on bark of *Populus tremula*, 30.09.2008, leg. & det. DH & IS, conf. JM (LECB); same place and biotope (61°06'16"N 34°42'09"E), on mosses on bark of *Populus tremula*, 30.09.2008, leg. & det. DH & IS, conf. JM (LECB). – New to North-Western European Russia.
- MULTICLAVULA MUCIDA (Pers.) R. H. Petersen – P: NE from Rotmozero Lake, 16 km E of Tokari (61°06'05"N 34°42'27"E), old swampy pine forest with black alder and spruce, on lignum of *Populus tremula*, 29.09.2007, leg. & det. DH & IS (LECB); 12 km N of Sobolevshchina, N from Yuksovskoe Lake (61°00'12"N 33°59'19"E), old spruce forest, on lignum, 26.09.2007, leg. & det. DH & IS (H); 5 km SW of Tokari, NE from Vachozero Lake (61°04'58"N 34°21'24"E), old aspen forest, on lignum, 27.09.2007, det. DH & IS (not collected); 7 km WNW of Sobolevshchina, W from Yuksovskoe Lake, right bank of the Shimaksa River (60°55'27"N 34°51'29"E), old aspen-spruce forest, on lignum of *Populus tremula*, 02.10.2008, det. IS & DH (not collected). – Indicator of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).
- ## NEPHROMOPSIS LAURERI (Kremp.) Kurok. – P: 4 km W of Tokari (61°06'24"N 34°22'00"E), old spruce forest, on dry twigs of *Picea*

sp., 28.09.2007, leg. & det. DH & IS (H, LECB); NE from Rotmozero Lake, 16 km E of Tokari (61°06'N 34°43'E), spruce forest with old aspens, on dry twig of *Picea* sp., 28.09.2008, leg. & det. DH & IS (LECB); same place (61°06'16"N 34°42'09"E), spruce forest with old aspens, on dry twigs of *Picea* sp., 30.09.2008, leg. & det. AS (BILAS); 15 km W of Soginitsy, left bank of the Vazhinka River (61°09'51"N 33°52'47"E), old spruce forest, on dry twigs of old *Picea* sp., 03.10.2008, det. IS & DH (not collected); 14 km NW of Soginitsy, close to Rozmeboloto bog (61°11'33"N 33°55'01"E), old wet spruce forest, on twigs of *Picea* sp., 04.10.2008, det. DH & IS (not collected); same place, Alejboloto bog (61°11'55"N 33°55'51"E), old swampy spruce forest, on dry twigs of *Picea* sp., 04.10.2008, det. DH & IS (not collected). – New to Leningrad Region. Habitat specialist of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009). This cetrarioid macrolichen, which is widespread in more continental areas in Russia, has only recently been reported for the first time from NW Europe, viz. from Republic of Karelia (Fadeeva et al., 2007).

PHAEOPHYSCIA ENDOPHOENICEA (Harm.) Moberg – B: The Ragusha River Protected Area, 1 km W of Rudnaya Gorka, canyon of the Ragusha River (59°16'N 33°55'E), young elm forest in the flood-plain, on bark of *Ulmus* sp., 06.2007, leg. & det. EK (LECB). – Rather rare in the Western Leningrad Region.

PROTOPANNARIA PEZIZOIDES (Weber) P. M. Jørg. & S. Ekman – P: NE from Rotmozero Lake, 18 km E of Tokari, near Terebsky brook (61°07'22"N 34°44'32"E), spruce forest with old aspens, on mosses on bark of *Populus tremula*, 28.09.2008, leg. & det. DH & IS (LECB). – Rather rare in the Western Leningrad Region. Indicator of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

+ SAREA DIFFORMIS (Fr.) Fr. – P: 30 km NW of Soginitsy, 3 km W of Krekhozzero (61°10'08,6"N 33°35'47,3"E), spruce forest, on resin of *Picea* sp., 25.09.2007, leg. & det. DH & IS (LECB); 4 km W of Tokari (61°06'24"N 34°22'00"E), old spruce forest, on resin of *Picea* sp., 28.09.2007, leg. & det. DH & IS

(LECB). – Also known from the Western Leningrad Region.

SCLEROPHORA CONIOPHAEA (Norman) J. Mattsson & Middelb. – P: NE from Rotmozero Lake, 16 km E of Tokari (61°06'05"N 34°42'27"E), old swampy pine forest with black alder and spruce, on bark of *Alnus glutinosa* and *Picea* sp., 29.09.2007, leg. & det. DH & IS (H, LECB); 15 km NW of Soginitsy, left bank of the Vazhinka River (61°10'30"N 33°52'28"E), old spruce forest in a ravine, on bark of very old *Picea* sp., 04.10.2008, leg. & det. IS & DH (LECB). – Very rare in the Western Leningrad Region. Habitat specialist of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

SCLEROPHORA PALLIDA (Pers.) Y. J. Jao & Spooner – B: The Ragusha River Protected Area, 1 km W of Rudnaya Gorka, left bank of the Ragusha River (59°16'N 33°55'E), elm forest, on bark of old *Ulmus* sp., 24.06.2007, leg. & det. EK (LECB). – Rare in the Western Leningrad Region. Habitat specialist of biologically valuable forests in the Southern Taiga of North-Western European Russia (Andersson et al., 2009).

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