

New Estonian records and amendments: Lichenized fungi

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Three species of lichenized fungi, *Caloplaca dichroa*, *Rhizocarpon submodestum*, and *Rimularia intercedens*, are reported as new for Estonia; one taxon, *Diplotomma lutosum*, which was previously considered to be extinct from the local lichen biota, was re-discovered. Two further rare species, *Collema crispum* and *Leptogium plicatile*, are additionally recorded. The abbreviations are used as follows: (1) for the country region: NW – northwestern part of Estonia, NE – northeastern part, WIs – western islands; (2) for frequency classes (Freq.): rr – very rare (1–2 localities), r – rare (3–5 localities), according to Randlane & Saag (1999); (3) for the collectors: JM – Jüri Martin, LM – Ljudmilla Martin. The specimens are deposited in the lichen herbarium of the Euroacademy (ICEB).

CALOPLACA DICHROA Arup – NW: Harju Co., Paldiski, north-eastern part of Pakri Peninsula, the edge of the plateau (59°22'47"N 24°05'11"E), on limestone pebbles, leg. LM & JM, 29 Jun 2009, det. LM, 7 Mai 2011 (ICEB 10657); Harju Co., Harku Comm., Vääna-Jõesuu, about 100 m from the sea coast (59°26'02"N 24°21'03"E), ruins of buildings, on concrete, leg. LM & JM, 27 Apr 2008, det. LM, 11 Jun 2012 (ICEB 10658). Samples are fertile. Freq.: rr. – Recorded in Austria, Denmark, Finland, Germany and Sweden (the islands Gotland and Öland), (Arup, 2006); it is also very common in England (Powell & Vondrák, 2012), north-western European Russia (Vondrák et al., 2010), Poland (Wilk, 2012), and in the Black Sea region (Vondrák et al., 2009).

COLLEMA CRISPUM (Hudson) Weber ex F.H. Wigg. – NW: Harju Co., Harku Comm., Muraste limestone quarry (59°27'21"N 24°28'20"E), on limestone, leg. LM & JM, 2 Oct 1999, det. LM, 2 Apr 2008 (ICEB 260). Freq.: r. – This species has

previously been reported in Estonia for island Saaremaa (Trass & Randlane, 1994; Suija et al., 2010), but no local samples were available in Estonian herbaria before now. The taxon is cosmopolitan, and is considered as quite common and widespread on calciferous soils and rocks (Jørgensen, 2007; Smith et al., 2009).

DIPLOMOMMA LUTOSUM A. Massal. – NW: Harju Co., Naissaar Island (59°35'52"N 24°30'37"E), ruins of fortifications from early 20th c., on concrete, leg. LM & JM, 15 Oct 2006, det. LM, 26 Jun 2007 (ICEB 10659). Freq.: rr. – This taxon has earlier been recorded in Estonia in the early 20th c. in the surroundings of Tallinn (Nordin, 2000), and was considered to be locally extinct (Randlane et al., 2012).

LEPTOGIUM PLICATILE (Ach.) Leighton – NW: Harju Co., Harku Comm., Muraste limestone quarry (59°27'21"N 24°28'20"E), on limestone, leg. LM & JM, 2 Oct 1999, det. LM, 3 Apr 2008 (ICEB 10660); WIs: Saaremaa Island, Kaugatoma pank, coastal hill (58°03'27"N 22°13'46"E), on limestone pebbles, leg. LM & JM, 20 Jul 2000, det. LM, 3 Apr 2008 (ICEB 288, 298). Freq.: r. – *L. plicatile* has earlier been collected at the end of 19th c. by Bruttan in NE, Lääne-Virumaa Co. (Randlane & Trass, 1994), and in 2004 in NW, Harjumaa Co., Kostivere karst field (Aptroot et al., 2005).

RHIZOCARPON SUBMODESTUM (Vainio) Vainio – NW: Harju Co., the central part of Naissaar Island (59°33'21"N 24°31'12"E), ruins of fortifications from the end of 20th c., on granite pebble, leg. LM & JM, 15 Oct 2006, det. LM, 29 Jun 2013 (ICEB 10661). Freq.: rr.

RIMULARIA INTERCEDENS (H. Magn.) Coppins – NW: Harju Co., Mohni Island, coastal hill (59°40'31"N 25°48'13"E), on granite pebble in a well-lit place, leg. LM, 27 Sep 2000, det. LM, 14 Oct 2012 (ICEB 9844). Freq.: rr. – Apothecia are very rare, but the taxon is readily identified by the nipple-like papillate areoles (Smith et al., 2009).

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New Estonian records: Lichenicolous fungi

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Five species of lichenicolous fungi are reported as new for Estonia. The abbreviations follow Randlane & Saag (1999), (1) for the country regions: NW – northwestern part of Estonia, NE – northeastern part, SE – southeastern part, SW – southwestern part; (2) for frequency classes (Freq.): rr – very rare (1–2 localities). Cited specimens are kept in the lichenological herbarium of the Natural History Museum, University of Tartu (TU).

ARTHONIA SUBFUSCICOLA (Linds.) Triebel – SW: Pärnu Co., Häädemeeste comm., retention cut of eutrophic boreo-nemoral forest (58.06041°N 24.67858°E), on *Lecanora carpinea* growing on *Acer platanoides*, leg. P. Lõhmus 6 Oct 2007, det. A. Suija. Freq.: rr.

EPICLADONIA SIMPLEX D. Hawksw. – SE: Põlva Co., Väraska Comm., Mustoja Landscape Reserve, Surnumäe sand-pit (57.88185°N 27.6305°E), on *Cladonia* sp. on ground, leg. A. Suija & J. Liira, 2 June 2012, det. A. Suija (TU65714). Freq.: rr.

NECTRIOPSIS PARMELIAE (Berk. & M.A. Curtis) M.S. Cole & D. Hawksw. – SW: Pärnu Co., Väandra Comm., Kullimaa village (58.56925°N 24.93836°E), drained birch forest of *Filipendula* paludifying forest site type, on squamules of *Cladonia ochrochlora* growing on base of *Betula pendula*, leg. J. Liira, Sep 2012, det. A. Suija (TU64979); Pärnu Co., Väandra Comm., Kullimaa village (58.56743°N 24.94237°E), drained birch forest of *Filipendula* paludifying forest site type, on squamules of *Cladonia* sp. growing on *Alnus glutinosa*, leg. J. Liira, Sep 2012, det. A. Suija (TU64952). Freq.: rr.

PRONECTRIA OLIGOSPORA Lowen & Rogerson – NW: Lääne Co., Taebla Comm., Ehmja-Turvalepa special conservation area (58.93357°N 23.84895°E), eutrophic boreo-nemoral forest, on *Parmelia sulcata* on decaying stump, leg. & det. A. Suija, 26 Sep 2012 (TU64973). Freq.: rr.

TRICHONECTRIA RUBEFACIENS (Ellis & Everh.) Diederich & Schroers – SE: Tartu Co., Nõo Comm., Vapramägi Hill (58.25275°N 26.46275°E), forest dominated by *Pinus sylvestris* and *Picea abies*, on *Parmelia sulcata* on a log of *Pinus sylvestris*, leg. & det. A. Suija, 15 Oct 2012 (TU64988); NE: Jõgeva Co., Alam-Pedja Nature Reserve, Puurmani Comm., at the Kirna hiking trail (58.54351°N 26.23364°E), alder forest, on *P. sulcata* on log of *Alnus glutinosa*, leg. & det. A. Suija, 4 Oct 2012 (TU64972). Freq.: rr.

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