

New national and regional biological records for Finland 4. Contributions to agaricoid and ascomycetoid taxa of fungi 3

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Agaricoid fungi (Basidiomycota): *Cortinarius chromatophilus*, *Cortinarius croceocaeeruleus*, *Cortinarius disjungendus*, *Cortinarius nolaneiformis*, *Cortinarius olididisjungendus*, *Cortinarius piceidisjungendus*, *Crepidotus stenocystis*, *Entoloma callirhodon*, *Entoloma rhombisporum*, *Hydropus marginellus*, *Macrocyttidia cucumis* var. *latifolia*, *Russula clementinae*, *Russula fellea*, *Russula mairei*, *Russula roseicolor* and three ascomycetoid fungi (Ascomycota): *Eutypella extensa*, *Octospora coccinea* and *Sporormiella megalospora* are reported as new to Finland. Information of species recently published elsewhere: *Cortinarius balteatialutaceus*, *Cortinarius balteatibulbosus*, *Cortinarius balteaticlavatus*, *Cortinarius boreicyanites*, *Cortinarius boreidionysae*, *Cortinarius brunneaaurantius*, *Cortinarius caesiocolor*, *Cortinarius caesiolamellatus*, *Cortinarius caesiophylloides*, *Cortinarius cremeiamarescens*, *Cortinarius flavipallens*, *Cortinarius infractiflavus*, *Cortinarius kytöevuorii*, *Cortinarius luteiaureus*, *Cortinarius myrtilliphilus*, *Cortinarius ochribubalinus*, *Cortinarius pallidirimosus*, *Cortinarius subrubrovelatus*, *Cortinarius talimulti-formis*, *Inocybe fuscescentipes* and *Inocybe subpaleacea* is brought here together. New records of little collected and rare taxa *Camarops tubulina*, *Catathelasma imperiale*, *Entoloma longistriatum*, *Galerina calyptrospora*, *Hyaloscypha epiporia*, *Hymenogaster tener*, *Porpoloma metapodium* and *Sowerbyella imperialis* are also listed. Corrections of previous information are given on: *Cortinarius balteatoalbus*, *Cortinarius crassifolius* (under *C. coracis*), *Cortinarius cyanites*, *Cortinarius dionysae* and *Inocybe lindrothii*.

Introduction

Here we present records of 52 fungal taxa, based on field work and on herbarium studies. Total of 18 taxa are New to Finland. Information concerning 21 species recently published elsewhere, is brought together. New records of 8 little collected and rare species are listed. We also include additions and corrections to previous information. Coordinates are given in Uniform Coordinate System (USC). H= Botanical Museum, Finnish Museum of Natural History, TUR= Herbarium, University of Turku, TUR-A = Herbarium of Åbo Akademi University.

Basidiomycota

Catathelasma imperiale (Quél.) Singer

FINLAND. Nylandia (N/U), Espoo, Luukki, Luukkaa Recreation Area. Old-growth, somewhat rich spruce dominated forest with springy depressions with *Sphagnum girgensohnii*. Nearby eg. *Tricholoma guldeniae* and *Craterellus lutescens*. UCS 669249:337236, coll. & det. Tea v. Bonsdorff 17–11, 25.VIII.2011 (H6049080); Espoo, Tremanskärr, Nature Protection Area. In a spruce (*Picea abies*) mire, near the dryer margin. UCS 6691319:3375312, coll. Erkki Nenonen, 20.IX.2014, det. Tea v. Bonsdorff (H6049934); Finlandia septentrionalis (St/St), Loimaa, Mellilä, Rahkio, NE of Kakarlampi. Planted *Picea abies* forest on a former field with scattered *Pinus sylvestris*, *Betula* and *Alnus*. UCS 6743:3277, coll. & det. Raija Knuutila & Jukka Vauras 17040, 21.IX.2000 (TUR-A); Karelia borealis (Kb/PK), Lieksa, Koli, Koli National Park. Along Tarhapuro brook, moist mixed forest. UCS 7000864:3643281, coll. & det. Esteri Ohenoja 64, 14.IX.2011 (H6030673).

New records of a little collected and rare taxon (Lahti 1993). In *Picea abies* dominated forests on somewhat rich soils and many times in old-growth forests. Red-listed as Near Threatened (NT) in Finland (von Bonsdorff et al. 2010, Rasi et al. 2010).

Cortinarius balteatialutaceus Kytöv., Liimat. & Niskanen

FINLAND. Lapponia inarensis (Li/InL), Utsjoki, Kevo, shore of the river Tsarsjoki, W of the cascade. Herb-rich, temporarily flooded site on a small island, with *Betula* and *Salix* bushes. UCS 66881:33919, coll. Jukka Vauras 10452, 16.VIII.1995 (TUR 5282).

Presumably with *Betula*, in subalpine birch forests but also in middle and northern boreal

forests at least in oceanic areas. Described this year (Liimatainen et al. 2014). Section *Phlegma-cioides*.

Cortinarius balteatibulbosus Kytöv., Niskanen,

Liimat., Bojantchev & A.F.S. Taylor = *C. balteatoalbus* ss. Kytövuori et al. (2005), ss. Jeppesen et al. (2012) p.p.

FINLAND. Regio aboënsis (Ab/V), Vihti, Lintumäki, Ruohoisnummentie. Fairly old, fairly rich *Picea abies* dominated forest. UCS 670550:335262, coll. H. Tuovila, 19.VII.2004 (H6027358); Nylandia (N/U), Espoo, Nuukio, Pirttimäki. Fairly rich grass-herb forest with *Populus tremula*, *Betula*, *Alnus incana*, *Quercus*, *Corylus*, *Prunus padus*, *Salix* spp. and some old pines and young spruces. UCS 6686:3370, coll. Ilkka Kytövuori 93–639, 2.IX.1993 (H6032755). Espoo, Pirttimäki, coll. Ukkola, 04.IX.2004 (H). Espoo, Pirttimäki. Half-open, cut meadow, coll. Ilkka Kytövuori 98–1624, 04.IX.1998 (H6033539, holotype); Helsinki, Tamminiemi. On lawn, under *Tilia*. Coll. Tuula Niskanen 3.VII.2000 (H6032413). Helsinki, Tamminiemi. On a lawn, under *Tilia*, coll. Ilkka Kytövuori, 18.IX.2000 (H); Vantaa, Tikkurila, at the river. On a lawn under *Tilia*. Coll. Ilkka Kytövuori 04–044, 22.VII.2004 (H).

In rich mixed forests, in parks, and on yard lawns with different deciduous trees (*Tilia*, *Quercus*, *Fagus*, *Populus*, *Corylus*, *Betula*), fairly rare. Until now all the collections known to us are from the hemiboreal zone. This species was previously called *C. balteatoalbus* in northern Europe but studies revealed that *C. balteatoalbus* is a completely different species and *C. balteatibulbosus* was described therefore (Liimatainen et al. 2014).

Cortinarius balteaticlavatus Kytöv., Liimat. & Niskanen

FINLAND. Savonia australis (Sa/ES), Mäntyharju, Juolasvesi. Mesic spruce heath forest with swampy depressions, *Pinus*, *Betula* and *Populus tremula*, by a ditch. UCS 680747:348065, coll. Ilkka Kytövuori 96–782, 02.IX.1996 (H6032415); Tavastia borealis (Tb/PH), Virrat, Hauhuu. On grassy road side, young *Picea*, *Betula*, *Populus tremula*, *Alnus incana* and *Salix* spp. UCS 690092:334150, coll. Ilkka Kytövuori 96–595, 23.VIII.1996 (H6032412, holotype); Virrat, Salmela. Half-open forest of *Betula* and *Populus tremula* and some pines and spruces. Coll. Ilkka Kytövuori 98–1337, 22.VIII.1998 (H); Regio kuusamoënsis (Ks/Ks), Taivalkoski, Jurmu – Kurtti, Koivuojja. Pine dominated forest with some *Picea* and *Betula*, by a forest track. UCS 726340:354968, coll. Ilkka Kytövuori 08–584, 31.VIII.2008 (H6033533); Lapponia inarensis (Li/InL), Inari, N side of the river Lutto, N side of the road to Rajajooseppi, Keskikompso, above the river bank. Mesic

heath forest with swamp depressions, *Pinus*, *Betula* and *Salix* spp. UCS 760045:354865, coll. Ilkka Kytövuori 95–382, 14.VIII.1995 (H6032729).

In mixed forests (*Betula*, *Populus*, *Salix*, *Picea*, *Pinus*) but the host tree is unknown, most of the collections are from grassy roadsides. In the southern boreal to the northern boreal zones from southern Finland to Lapland, fairly rare. Described this year (Liimatainen et al. 2014). Section *Phlegmacioides*.

Cortinarius balteatoalbus Rob. Henry

Correction of previous information: This species is not currently known from Finland and the previous records under this name represent *C. balteatibulbosus*.

Cortinarius boreicyanites Kytöv., Liimat.,

Niskanen & A.F.S. Taylor

= *C. cyanites* p.p. in Kytövuori et al. (2005), p.p. in Jepsen et al. (2012).

FINLAND. Savonia borealis (Sb/PS), Kuopio, Vehmersalmi. Submesic, mixed forest (*Betula*, *Picea*, *Pinus*), in a grassy place. UCS 69622:35560, coll. Tuula Niskanen et al. 03–112, 01.VIII.2003 (H).

In boreal mixed forests of *Picea*, *Betula* and *Populus*. The species is so far only known from the middle boreal zone. Previously included in *C. cyanites*. Described this year (Liimatainen et al. 2014). Section *Cyanites*.

Cortinarius boreidionysae Kytöv., Liimat.,

Niskanen & Dima

= *C. dionysae* p.p. in Kytövuori et al. (2005).

FINLAND. Ostrobothnia ouluensis (Obo/OP), Kii-minki, Juuvansydänmaa, S part of Iso Juuvankangas, W of the lake Iso Juuvanjärvi. Grass-herb spruce forest with some *Betula*, *Populus tremula* and *Pinus*, on calcareous soil. UCS 722300:345267, coll. Mika Toivonen & Ilkka Kytövuori 07–245, 17.VIII.2007 (H6000476); Ostrobothnia ultima (Obu/PeP), Tervola, Peura, Raemäki. Grass-herb-spruce forest with spring-fed depressions, calcareous soil. Coll. Ilkka Kytövuori 97–1220, 11.IX.1997 (H, holotype), coll. Ilkka Kytövuori 98–1316, 21.VIII.1998 (H6035751), coll. Mika Toivonen & Ilkka Kytövuori 07–491, 21.VIII.2007 (H6000724); Tervola, church village, Ala-Kirvesmaa. Rich grass-herb spruce forest with some *Betula*, *Populus* and *Pinus*, on calcareous soil. Coll. Ilkka Kytövuori 07–768, 24.VIII.2007 (H6001001); Tervola, Petäjämäa, Kivimäa. Coll. Ilkka Kytövuori, 6.IX.2012 (H); Tornio, Korkiamäa, Runteli. Rich grass-herb spruce forest with hardwood bushes and some pines, slightly paludified depressions, calcareous soil. Coll. Ilkka Kytö-

vuori 95–210, 12.VIII.1995 (H6035732), Ilkka Kytövuori 97–1170, 10.IX.1997 (H), Ilkka Kytövuori 98–1279, 20.VIII.1998 (H6035740), Ilkka Kytövuori 07–626, 22.VIII.2007 (H6000859); Regio kuusamoënsis, Oulanka National Park, Ampumavaara. Mesic to damp, herb-rich *Picea abies* forest, with some *Pinus*, *Populus* and *Betula*. Coll. Ilkka Kytövuori, Kare Liimatainen & Tuula Niskanen 02–876, 19.IX.2002 (H6033134).

In northern boreal *Picea abies* dominated forests on calcareous soil, rare. Previously included in *C. dionysae* (Kytövuori et al. 2005). Described this year (Liimatainen et al. 2014). Subgenus *Phlegmacium*.

Cortinarius brunneiaurantius Kytöv., Liimat. & Niskanen

FINLAND. Regio aboënsis (Ab/V), Turku, Ruissalo, Kansanpuisto. *Tilia* alley, also *Quercus robur* nearby, on clayey-mull soil. UCS 671149:323467, coll. Jukka Vauras 17979, 22.IX.2001, (H6032422, holotype; TUR171972, isotype); Nylandia (N/U), Espoo, Nuuksio, Pirttimäki. Fairly rich grass-herb forest with *Populus tremula*, *Betula*, *Alnus incana*, *Quercus*, *Corylus*, *Prunus padus*, *Salix* spp., and some old pines and young spruces. UCS 6686:3370, coll. Ilkka Kytövuori 93–644, 02.IX.1993 (H6032406).

In deciduous forests, presumably with *Quercus*, *Corylus* and *Populus*. To date only known from southern Finland. Described this year (Liimatainen et al. 2014). Section *Phlegmacioides*.

Cortinarius caesiocolor Kytöv., Liimat. & Niskanen

FINLAND. Regio aboënsis (Ab/V), Lohja, Jalassaari, Tamminiemi. By a track, *Betula*, *Populus tremula*, *Quercus*, *Corylus* and *Salix caprea*, on calcareous soil, coll. Ilkka Kytövuori 00–029, 27.VIII.2000 (H, holotype); Nylandia (N/U), Helsinki, Malmi cemetery. *Quercus robur* alley, on cut meadow. UCS 668247:339066, coll. Ilkka Kytövuori 97–207, 17.VIII.1997 (H6032730).

Under *Quercus*, *Populus* and *Corylus* on mull soil in parks, road sides and deciduous forests. Known from southern Finland. Described this year (Liimatainen et al. 2014). Section *Phlegmacioides*.

Cortinarius caesiolamellatus (Bidaud) Kytöv.,

Liimat., Niskanen, Brandrud, Frøslev & A.F.S. Taylor

FINLAND. Nylandia (N/U), Kunnarla, Myllyoja. Grass-herb forest with some pines and hardwood trees. UCS 6687:3370, coll. Ilkka Kytövuori 94–852, 22.IX.1994, (H); Savonia borealis (Sb/PS), Kuopio, Vehmersalmi, Pu-

troniemi, shore of Roikanselkä – Mäkipjärvi E. Under *Picea*, 30 years old forest. UCS 696555:355663, coll. Juhani Ruotsalainen 8103F, 26.IX.2009 (H6011464); *Ostrobotnia ultima* (Obu/PeP), Tervola, Peura, Raemäki. In *Picea* dominated forest on calcareous soil. UCS 7343:3417, coll. Håkan Lindström, IX.2013 (H, O).

In hemiboreal to middle boreal, mesic coniferous forests, often on rich soil, occasional. Section *Multiformes*. Combined to species level in 2014 (Liimatainen et al. 2014).

Cortinarius caesiophylloides Kytöv., Liimat.,

Niskanen, Brandrud & Frøslev

FINLAND. Savonia australis (Sa/ES), Joutsa, Koivuranta, W of Rakkolanselkä. Fairly young, mesic to damp, *Picea abies*-dominated forest with some *Betula* and *Pinus sylvestris*. UCS 68479–81:34566–9, coll. Tuula Niskanen et al. 05–016, 30.VIII.2005 (H6029792, holotype); *Ostrobotnia kajanensis* (Ok/Kn), Paltamo, Oikarilankylä, Kivesvaara. Old mesic spruce forest with some *Betula*, *Pinus* and *Populus tremula*. UCS 715149:352620, coll. Ilkka Kytövuori 08–1554, 11.IX.2008 (H6032621); Lapponia sompiensis (Lks/Sol), Pelkosenniemi, Suvanto, Kalkkivaara, steep SW slope. Dry pine forest with *Juniperus*, *Betula*, *Populus*, *Alnus incana*. UCS 745545:350369, coll. Ilkka Kytövuori 92–3044, 26.VIII.1992 (H6032620).

In mesic coniferous forests, presumably with *Picea*, mainly in richer low-herb types, sometimes on calcareous soil, presumably rare. Described this year (Liimatainen et al. 2014). Section *Multiformes*.

Cortinarius chromatophilus Rob. Henry

FINLAND. Regio aboënsis (Ab/V), Turku, Ruissalo, Marjaniemi. *Quercus robur* dominated forest on mull/clay soil. UCS 67128–31:3236, coll. Kare Liimatainen & Tuula Niskanen, 26.VI.2013, environmental sequence from a soil sample, GenBank no. KP013210 (ITS2).

In hemiboreal deciduous forests, presumably with *Quercus*, presumably rare. Section *Phlegmacioides*. New to Finland.

Cortinarius coracis Kytöv., Niskanen, Liimat. & Dima

= *C. crassifolius* in Kytövuori et al. (2005)

Correction of previous information: A new name for the species was published in Liimatainen (2014).

Cortinarius cremeiamarescens Kytöv., Liimat. & Niskanen

Cortinarius caesiostamineus p.p. in Kytövuori et al. (2005), p.p. in Jeppesen et al. (2012).

FINLAND. Regio aboënsis (Ab/V), Parainen, Lemlahdensaari, Fallskogen. *Pinus sylvestris* heath forest with some *Picea abies* on sandy soil, by the calcareous dust road. UCS 6691:3246, coll. Kare Liimatainen & Tuula Niskanen 06–273, 20.X.2006 (H); Nylandia (N/U), Espoo, Luukkaa Recreation Area, N of Haukkalampi. Mesic, partly grass-herb spruce forest with some *Populus tremula*, *Betula* and *Pinus sylvestris*. UCS 6694:3372, coll. Kare Liimatainen & Tuula Niskanen 04–768, 19.IX.2004 (H602946); Kirkkonummi, Dorgarn, Meiko-Trehörningen Nature Reserve. Semi-open spruce forest with some hardwood bushes. Coll. Ilkka Kytövuori 07–1722, 27.IX.2007 (H6001575); Siuntio, Lappräsk. Grass-herb spruce forest with some *Pinus*, *Betula*, *Populus* and *Corylus*. Coll. Ilkka Kytövuori 00–027, 24.VIII.2000 (H); Savonia australis (Sa/ES), Mäntyharju, Juolasvesi, Hietaniemi, Sojonkangas. Fairly rich spruce-pine forest with abundant *Betula* and *Populus tremula*. Coll. Ilkka Kytövuori 94–1177b, 29.IX.1994 (H6035734).

In hemiboreal and southern boreal conifer-dominated forests on rich to calcareous soil, fairly rare. *Cortinarius cremeiamarescens* was previously included in *C. caesiostamineus* sensu Jeppesen et al. (2012) (current name *C. gentianus* Rob. Henry). Described this year (Liimatainen et al. 2014).

Cortinarius croceocaulus (Pers.) Fr.

FINLAND. Regio aboënsis (Ab/V), Parainen, Lenholmen. *Quercus robur* dominated forest on mull/clay soil. UCS 66908–9:32350–1, coll. Kare Liimatainen & Tuula Niskanen, 16.VII.2013, environmental sequence from a soil sample, GenBank no. KP013211 (ITS2). Lohja, Kirkniemi, Olarsintie 3, on lawn under *Quercus robur*. UCS 6675:3316, coll. Mauri Lahti, 2013 (TUR), Hanna Tuovila 28.IX.2014 (H).

In hemiboreal deciduous forests, on rich to calcareous soil, presumably very rare. Section *Vibratiles* s. lato. New to Finland.

Cortinarius cyanites Fr.

= *C. cyanites* p.p. in Kytövuori et al. (2005), p.p. in Jeppesen et al. (2012).

FINLAND. Nylandia (N/U), Espoo, Nuuksio, the open area of Pirttimäki. Grass-herb spruce forest with *Corylus*, *Betula* and *Populus tremula*. UCS 6686:3370, coll. Ilkka Kytövuori 98–1476, 27.VIII.1998 (H), det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2014.

In mixed forests, host unknown. In hemiboreal and southern boreal zone, occasional. Correction of previous information: Specimens previously identified as *C. cyanites* represent three different species, *C. cyanites*, *C. boreicyanites*, and

C. violaceorubens. Of these *C. violaceorubens* was recorded as new to Finland in von Bonsdorff et al. (2012). It grows in *Picea* dominated forests, often on rich soil, and is considered occasional. *Cortinarius boreicyanites* is so far only known from the middle boreal zone.

Cortinarius dionysae Rob. Henry s.s.

Correction of previous information: This species is currently not known from Finland and the previous records under this name represent either *C. boreidionysae* or *C. olivaceodionysae*.

Cortinarius disjungendus Kytöv., Liimat. & Niskanen

= *C. disjungendus* p.p. in Kytövuori et al. (2005).

FINLAND. Tavastia borealis (Tb/PH), Virrat, Hauhuu. Gently sloping, partly springy *Picea abies* forest with *Betula*, *Pinus*, *Populus tremula*, *Alnus incana* and *Salix* spp. UCS 6900:3339, coll. Ilkka Kytövuori 96–543, 22.VIII.1996 (H).

New to Finland. Section *Disjungendi*.

Cortinarius flavipallens Kytöv., Liimat. & Niskanen

FINLAND. Karelia ladogensis (KI/LK), Parikkala, Vaaranperä, Soininmäki, S part, Soininjoki. Fairly old, SE sloping spruce forest with some *Pinus*, *Betula* and *Populus tremula*. UCS 683548:362365, coll. Aapo Ahola 17.IX.2009 (H6032393); Ostrobothnia kajanensis (Ok/Kn), Kajaani, Hietalahti, Torakangas NNW of Korpitaipale. By the power line, fairly damp grass-herb spruce forest with *Pinus*, *Betula* and *Populus tremula*, on calcareous soil. UCS 713911:354266, coll. Ilkka Kytövuori 08–1729, 13.IX.2008 (H6032745, holotype); Ostrobothnia ultima (Obu/PeP), Tervola, Peura, Raemäki. In *Picea* dominated forest on calcareous soil. UCS 734363:341698, coll. Tapio Kekki 368, 5.IX.2011 (H).

In boreal *Picea abies* dominated forests on calcareous soil, fairly rare. Described this year (Liimatainen et al. 2014). Section *Calochroi*.

Cortinarius infractiflavus (M.M. Moser) Kytöv., Niskanen, Liimat., Bojantchev & Ammirati

FINLAND. Lapponia sompiensis (Lks/Sol), Pelkosenniemi, Suvanto, Kalkkivaara. Half-open dry *Pinus sylvestris* forest with *Picea*, *Juniperus*, *Betula*, *Populus*, and *Alnus*, on dolomite rock. Coll. Ilkka Kytövuori 92–1109, 26.VIII.1992 (H).

Poorly known species. previously included in *C. infractus*. Described this year (Liimatainen et al. 2014).

Cortinarius kytoevuorii Niskanen & Liimat.

FINLAND. Regio kuusamoënsis (Ks/Ks), Kuusamo, Oulanka, Ampumavaara, S slope. Old, grass-herb *Picea abies* forest with some *Betula*, *Pinus sylvestris* and *Populus tremula*, on calcareous soil. UCS 73665–8:36035–9, coll. Tuula Niskanen & Kare Liimatainen 05–158, 17.IX.2005 (H6029355, holotype).

In coniferous forest, on calcareous soil, rare. To date, known only from the type locality. Described this year (Liimatainen et al. 2014). Subgenus *Phlegmacium*.

Cortinarius luteiaureus Kytöv., Liimat. & Niskanen

FINLAND. Ostrobothnia ouluensis (Obo/OP), Kiiminki, Juuvansydänmaa, S part of Iso Juuvankangas, W of the lake Iso Juuvanjärvi. Grass-herb *Picea abies* forest with some *Betula*, *Populus tremula* and *Pinus*, on calcareous soil. UCS 7223:3452–3, coll. Mika Toivonen & Ilkka Kytövuori 07–247b, 17.VIII.2007 (H6033617, holotype).

In coniferous forest (*Picea*) on calcareous soil, rare. To date, known only from the type locality. Described this year (Liimatainen et al. 2014). Section *Elastici*.

Cortinarius myrtilliphilus Kytöv., Liimat., Niskanen & Brandrud

= *Cortinarius vacciniophilus* Brandrud, Edinb. J. Bot. 54(1): 114. 1997. p.p.

FINLAND. Ostrobothnia kajanensis (Ok/Kn), Suomussalmi, Suolijärvi, Siikajärvi, NW foot of Siikavaara (Ränninvaara), Pöksäkorpi. Gently sloping, partly swampy, grass-herb spruce forest with some *Pinus*, *Betula*, *Populus*, *Alnus incana* and *Salix* spp. UCS 7229:3544, coll. Ilkka Kytövuori 97–1469, 14.IX.1997 (H6032751, holotype).

In mesic *Picea* dominated forests, from richer to poor *Vaccinium myrtillus* type. So far only known from middle boreal zone from Finland and might be rare. Described this year (Liimatainen et al. 2014). Section *Phlegmacioides*.

Cortinarius nolaneiformis (Velen.) Dima, Niskanen & Liimat.

FINLAND. Regio aboënsis (Ab/V), Kaarina, Rauhalinna. Mixed deciduous forest (*Quercus*, *Tilia*, and *Corylus*, some *Acer* and *Pinus*) on clay soil. UCS 67077–9:32462–4, coll. Kare Liimatainen & Tuula Niskanen, 16.VII.2013, environmental sequence from a soil sample, GenBank no. KP013212 (ITS2).

In hemiboreal deciduous forests with *Quercus* and *Corylus*, on rich to calcareous soil, presumably rare. Section *Colymbadini*. New to Finland.

Cortinarius ochribubalinus Kytöv., Liimat. & Niskanen

FINLAND. Nylandia (N/U), Espoo, Nuuksio, Pirttimäki Recreation Area, between the main road and the lake, opposite the parking area. Fairly rich grass-herb forest with *Populus tremula*, *Betula*, *Alnus incana*, *Quercus*, *Corylus*, *Prunus padus*, *Salix* spp., and some old pines and young spruce. UCS 6686:3370, coll. Ilkka Kytövuori 93–641, 02.IX.1993 (H6032734, holotype).

With deciduous trees, possible hosts *Populus*, *Corylus*, or *Quercus*. Known only from the type locality. Described this year (Liimatainen et al. 2014). Subgenus *Phlegmacium*.

Cortinarius olididisjungendus Liimat., Niskanen, Dima & Kytöv.

FINLAND. Regio aboënsis (Ab/V), Turku, Ruissalo, Nature Reserve Area near Botanical Garden. Near *Pinus sylvestris*, *Quercus robur* and *Betula*, on dryish ground. UCS 6712:3233, coll. Kare Liimatainen & Tuula Niskanen 08–067, 03.IX.2008 (H6001971).

Section *Disjungendi*. New to Finland.

Cortinarius olivaceodionysae A. Ortega, Vila & Fdez.-Brime

= *C. dionysae* p.p. in Kytövuori et al. (2005), p.p. in Jeppesen et al. (2012).

FINLAND. Alandia (Al/A), Finström, Emkarby. Mesic to moist grass-herb spruce forest with some *Corylus avellana*, on calcareous soil. UCS 66992–6:1082–5, coll. Kare Liimatainen & Tuula Niskanen 06–306, 27.X.2006 (H6029409); Jomala, Gottby. Eutrophic, mesic spruce forest with some *Populus tremula*, *Betula* and *Pinus*, mossy soil and needle litter. UCS 66895–7:0984–7, coll. Kare Liimatainen & Tuula Niskanen 06–285a, 24.X.2006 (H6029408) and 06–285b (H6029401). Jomala, Önningby. Mesic (to moist) spruce forest with some *Pinus* and *Betula*, on calcareous soil. UCS 66863–7:1123–6, coll. Kare Liimatainen & Tuula Niskanen 06–310, 27.X.2006 (H7017574) and 06–311 (H6029330). Lemland, Nätö. Grass-herb forest with *Corylus avellana*. Coll. Mauri Korhonen & Risto Tuomikoski 2540 (H6035743), det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2014.

In hemiboreal coniferous forests (*Picea abies*) on calcareous soil, rare. Correction of previous information: records under the name *Cortinarius dionysae* represent two other species in Finland. The southern species was named as *C. olivaceodionysae* in Fernandez-Brime et al. (2014). The northern specimens represent *C. boreidionysae* (see more information under that name).

Cortinarius pallidirimosus Kytöv., Liimat. & Niskanen

FINLAND. Ostrobottnia kajanensis (Ok/Kn), Puolanka, Väyrylä, Körölä. Grass-herb spruce forest with some pines and hardwood bushes. Coll. Ilkka Kytövuori 97–1523, 15.IX.1997 (H6035715); Ostrobottnia ultima (Obu/PeP), Rovaniemi, Louevaara, Tuohilaki Nature Reserve Area (west). Eutrophic, submesic to mesic *Picea abies* forest with *Betula*, *Populus tremula* and some *Pinus sylvestris*. Coll. Tuula Niskanen & Kare Liimatainen 04–470, 29.VIII.2004 (H6029374); Tervola, Louepalo, Kätkävaara, E of the western quarry, S of the track. Gently E sloping forest of young *Betula* and *Picea*, with some *Populus tremula*, *Alnus incana* and *Salix* spp.. Coll. Ilkka Kytövuori 07–692, 23.VIII.2007 (H6000925); Peura, Kaitalampi, Kaitaharju. Half-open, eutrophic grass-herb spruce forest with some pines, on calcareous soil. Coll. Ilkka Kytövuori 92–1779, 5.IX.1992 (H6035693); Regio kuusamoënsis (Ks/Ks), Kuusamo, Oulanka National Park, Ampumavaara. Mesic to damp, herb-rich *Picea abies* forest with some *Pinus*, *Populus* and *Betula*. Coll. Tuula Niskanen et al. 02–859, 19.IX.2002 (H6033129); Lapponia kittilensis (Lkk/KiL), Kolari, Teuravuoma – Lappea (Korkealehdontie), Tappikumpu. Mesic spruce-birch forest. Coll. Ilkka Kytövuori 98–1078, 18.VIII.1998 (H6035705); Lapponia sompiensis (Lks/Sol), Sodankylä, Tähtelä, Hassikankaannokka. Mesic spruce forest with some pines and hardwood trees. Coll. Ilkka Kytövuori 92–966, 24.VIII.1992 (H); Lapponia inarensis (Li/InL), Utsjoki, Kevo, Tsieskuljohka. Mesic heath forest with *Betula* and *Pinus*, some moist depressions. Coll. Ilkka Kytövuori 92–540, 17.VIII.1995 (H6035704), Ilkka Kytövuori 95–585 (H6035694, holotype).

In the middle and northern boreal zones, mesic, mixed forests with *Betula*, among mosses, on oligotrophic to eutrophic soil, occasional. Described this year (Liimatainen et al. 2014). Section *Multiformes*.

Cortinarius piceidisjungendus Kytöv., Liimat., Niskanen & Ammirati

FINLAND. Nylandia (N/U), Siuntio, Lapträsk. Young, planted spruce forest on old field. Coll. Ilkka Kytövuori 00–028, 24.VIII.2000 (H); Ostrobottnia kajanensis (Ok/Kn), Puolanka Väyrylä. Grass-herb *Picea abies* forest with some *Pinus sylvestris* and hardwood bushes. UCS 7179:3536, coll. Ilkka Kytövuori 97–1491, 15.IX.1997 (H).

In rich coniferous forests, mostly on calcareous ground, occasional in hemiboreal and boreal zone. Section *Disjungendi*. New to Finland.

Cortinarius subrubrovelatus (Bidaud) Kytöv.,

Liimat., Niskanen & Dima

FINLAND. Regio aboënsis (Ab/V), Lohja, Jalassaari. Herb-rich *Picea abies* forest with some *Corylus avellana*. UCS 66820–2:33265–9, coll. Ilkka Kytövuori & Tuula Niskanen 04–881, 19.IX.2004 (H6031330); Paimio, Huso, Kalkkimäki, below the old limestone quarries. Moist spruce grass-herb forest with hardwood bushes. UCS 6703:3268, coll. Ilkka Kytövuori 85–1553, 06.X.1985 (H).

In coniferous forests on calcareous soil, apparently rare. Combined to species this year (Liimatainen et al. 2014). Section *Glaucopodes*.

Cortinarius talimultiformis Kytöv., Liimat.,

Niskanen, A.F.S. Taylor & Sesli

= *C. multiformis* p.p. in Kytövuori et al. (2005), p.p. in Jeppesen et al. (2012).

FINLAND. Tavastia borealis (Tb/PH), Virrat, Killinkoski. *Abies sibirica* forest. Coll. Ilkka Kytövuori, 30.VIII.1966 (H6032747); Ostrobothnia ouluensis (Obo/OP), Kii-minki, Keskikylä, Pikkuhalmeenmaa. Grass-herb spruce forest with some *Betula*, *Populus tremula* and *Pinus*, on calcareous soil. Coll. Mika Toivonen & Ilkka Kytövuori 07–131, 15.VIII.2007 (H6000360); Ostrobothnia ultima (Obu/PeP), Tornio, Kalkkimaa (NW). Mainly grass-herb forest with *Picea*, *Betula*, *Populus tremula*, *Juniperus* and *Pinus*, on calcareous soil. Coll. Ilkka Kytövuori 07–605, 22.VIII.2007 (H6000838).

In hemiboreal to boreal, mesic coniferous forests with *Picea* and *Abies*, maybe common. Described this year (Liimatainen et al. 2014). Section *Multiformes*.

Crepidotus stenocystis Pouzar

FINLAND. Finlandia septentrionalis (St/St), Luvia, Säppi island. Old spruce dominated forest in the centre of the island, on *Picea abies* trunk, UCS 6831645:3199490, coll. Jarkko Korhonen & Lasse Kosonen, 14.IX.2013, det. Lasse Kosonen (TUR); Ostrobothnia ultima (Obu/PeP), Rovaniemi, Pisavaara Strict Nature Reserve, on *Picea abies* in mesic old heath forest, UCS 7353982:3415512, coll. & det. Tapio Kekki 1176, 28.IX.2013 (TUR); Lapponia kittilensis (KiL/LKi), Kolari, Pallas-Ounastunturi National Park, Rajajärvenoja. Brookside spruce forest, on a *Picea abies* trunk, diam. 45 cm. UCS 7511626:3383567, coll. & det. Jorma Pennanen 2423, 10.VIII. 2013, conf. Tea v. Bonsdorff (H604829)₂

In old-growth forests, trunks of *Picea abies*. Not known or poorly known before (Knudsen & Vesterholt 2012), and maybe a somewhat overlooked species. New to Finland.

Entoloma callirhodon Hauskn. & Noordel.

FINLAND. Savonia borealis (Sb/PS), Pieksämäki, Ankele, calcareous eutrophic herb-rich forest. UCS 6885196:3521280, coll. & det. Tapio Kekki 1569, 05.IX.2014 (H), conf. Anton Hausknecht.

Entoloma callirhodon has a pink cap and stem with reddish-lilaceous gill edge of serrulatum-type. A very rare species growing on calcareous soil in mossy meadows and deciduous forests. In Denmark it is classified as Critically Endangered (CR) and in Norway as Endangered (EN) (Knudsen & Vesterholt 2012). New to Finland.

Entoloma longistriatum (Peck) Noordel.

FINLAND. Ostrobothnia ultima (Obu/PeP), Rovaniemi, Kontinjoki. Calcareous and sandy roadside, UCS 736388:345075, coll. & det. Tapio Kekki 954, 14.VIII.2013 (TUR).

Entoloma longistriatum var. *sarcitulum* has been reported earlier from Finland (Noordeloos 1992), but the herbarium specimen has not yet been located. New record of this very rare taxon.

Entoloma rhombisporum (Kühner & Boursier)

E. Horak

FINLAND. Ostrobothnia ultima (Obu/PeP), Rovaniemi, Kontinjoki. Calcareous and sandy roadside. UCS 736388:345075, coll. & det. Tapio Kekki 965, 21.VIII.2013 (TUR).

New to Finland.

Galerina calyptrospora Kühner

FINLAND. Finlandia septentrionalis (St/St), Luvia, Säppi island, western part of the island. Open coastal swamp, possibly on very rotten wood, UCS 6832063:3199348, coll. Jarkko Korhonen & Lasse Kosonen, 14.IX.2013, det. Lasse Kosonen, conf. Seppo Huhtinen (TUR).

Reported as new to Finland in von Bonsdorff et al. (2012) with two localities. Third Finnish record.

Hydropus marginellus (Pers.) Singer

FINLAND. Tavastia borealis (Tb/PH), Jyväskylä, Kuruvuori. Vanhaselkä – Ruppavuori Nature Protection Area. On grass-herb spruce (*Picea abies*) dominated forest. UCS 68620–21:34284–85, coll. Emma-Sofia Hyytiäinen, 02.IX.2014, det. Ilkka Kytövuori 2014 (H).

New to Finland.

Hymenogaster tener Berk. & Broome

FINLAND. Ostrobothnia ultima (Obu/PeP), Rovaniemi, Hautapäänoja. On creek bank with liverworts, under *Bet-*

ula and *Alnus*. UCS 736982:344738, coll. & det. Tapio Kekki 1154, 23.IX.2013 (H), conf. Anna Molia.

New record of a little collected and rare taxon. *Hymenogaster* species have semi-hypogeous – hypogeous, tuberoid fruitbodies and are not often reported. *H. tener* has been found in Finland once before (Nylandia (N/U), Helsinki, 1980, H6049980).

Inocybe fuscescentipes Kühner

FINLAND. Ostrobothnia media (Om/KP), Vimpeli, Vesterbacka, by old limestone quarries. On forest track, near *Pinus sylvestris*, *Picea abies*, *Betula*, *Populus tremula* and *Salix caprea*, calcareous site. UCS 7010:3352, coll. Jukka Vauras 5955F, 27.VIII.1991, det. Ellen Larsson by comparing sequences with the holotype in 2014 (TUR-A, GB).

Recent information: Belongs to *I. leiocephala* group, characterized by with a whitish fugacious cortina and white fibrils and caulocystidia on stipe. Described from alpine zone in France, with *Dryas* (Kühner 1988). Known from one locality in Finland, in middle boreal zone and reported as new to Finland and as well as to USA by Larsson et al. (2014).

Inocybe lindrothii (P. Karst.) Vauras & E. Larss.
= *Hebeloma lindrothii* P. Karst.

= *I. saponacea* Kuyper

FINLAND. Tavastia australis (Ta/EH), Tammela, Mustiala, Syrjä. Coll. Johan I. Lindroth, IX.1897 (H, PAK 2888, holotype); Savonia borealis (Sb/PS), Varkaus, Ruokokoski. On lawn with *Betula*. UCS 6911:3542, coll. Jukka Vauras 2390 (TUR-A 144764, epitype; isoepitype GB).

Corrections of previous information: This is a common species in Finland, named earlier as *I. leiocephala* Stuntz (e.g. Jacobsson & Larsson 2012), but as *I. lindrothii* in Kytövuori et al. (2005). *I. leiocephala* has not yet been verified from Finland. An epitype of *I. lindrothii* was selected (Larsson et al. 2014), because it was not possible to get sequences from the holotype. Common in Finland, from southern part (hemiboreal zone) to Lapland (northern boreal zone). Mainly on somewhat rich to rich soils, in forests and parks with *Betula* (even mountain birch) and *Picea abies* (Larsson et al. 2014). – J. I. Lindroth is known as J.I. Liro since 1906.

Inocybe subpaleacea Kühner

FINLAND. Ostrobothnia ultima (Obu/PeP), Tornio, Arpela, Korkeamaa, Runteli, W of the Nature Reserve. Rocky area, forest with *Picea abies*, *Pinus sylvestris*, *Betula* and *Populus tremula*, on calcareous, mossy rock. UCS 7330:3377, coll. Jukka Vauras 29282F, 6.IX.2012, det. Ellen Larsson by comparing sequences with the holotype in 2014 (TUR-A, GB).

A fairly small species of *I. leiocephala* group, originally described from alpine zone in France, growing with *Helianthemum*, *Dryas* and *Salix serpyllifolia* (Kühner 1988). Known from only one locality in Finland, in middle boreal zone. Reported as new to Finland by Larsson et al. (2014), as well as to Spain and Russia.

Macrocystidia cucumis var. *latifolia* (J.E. Lange)

Imazeki & Hongo

FINLAND. Ostrobothnia ultima (Obu/PeP), Rovaniemi, Kiiruna, sandy yard under cultivated *Hippophaë rhamnoides*. UCS 737875:344485, coll. & det. Tapio Kekki 1233, 12.X.2013 (H6049485).

Differs from *Macrocystidia cucumis* (Pers.: Fr.) Joss. var. *cucumis* by being smaller and striate to the central papilla (Knudsen & Vesterholt 2012). New to Finland.

Porpoloma metapodium (Fr.) Singer

FINLAND. Tavastia borealis (Tb/PH), Petäjävesi. At the old church, mossy and dry meadow in the cemetery. UCS 6906294:3405769, coll. Petri Nyqvist, 30.VIII.2014 (TUR), det Seppo Huhtinen.

This is the third collection of this rare species in Finland. Red-listed as Endangered (EN) in Finland (von Bonsdorff et al. 2010, Rassi et al. 2010). New record of a little collected and rare taxon.

Russula clementinae Reumaux

FINLAND. Alandia (Al/A), Jomala, Gottby, between Djurvik and Torp, W of the sandy road. Forest with *Picea abies* and scattered *Pinus sylvestris* and *Betula*, with moist eutrophic depressions. UCS 6690:3098, coll. Jukka Vauras 16860F, 25.VIII.2000 (KUO, TUR-A); Regio aboënsis (Ab/V), Rymättylä, Pähkinäinen island, Iso-Viljari, Nature Reserve, N-part. Mixed forest dominated by deciduous trees, with *Corylus avellana*. UCS 67027:32076, coll. Esa Kalska, Lasse Kosonen & Mauri Lahiti 91/08, 12.X.2008 (KUO); Parainen, Stortervolandet, Granvik, near Fagervik, W of the ferry port. Forest with *Populus tremula*, *Picea abies*, *Betula* and *Pinus sylvestris*. UCS 6685:3237, coll. Jukka Vauras 30845F, 4.X.2014 (TUR-A, KUO); Nylandia (N/U), Espoo, Nuuksionpää

Recreation Area. On slope near the cottage. UCS 66911–2:33628–9, coll. Liisa Seppänen, 17.IX.1986 (H); Savonia borealis (Sb/PS), Nilsä, Huutavanholma, Nature Reserve, at brookside, fern-herb forest with *Picea abies*, *Populus tremula* and *Betula*. UCS 70202:35518, coll. Juhani Ruotsalainen 6857, 26.IX.2004 (KUO). All collections det. Juhani Ruotsalainen 2004–2014.

A fairly large species of section Compactae, characterized by a whitish pileus, reddening flesh, acrid lamellae and weak smell. Dagron (1999) combined this species as *R. densifolia* f. *clementinae*, but according to a microscopical study of the holotype by Juhani Ruotsalainen it deserves to be recognized as a species. In mixed forests, mainly on rich soils, in hemiboreal and southern boreal zones. Described from France (Reumaux et al. 1996). Collected also from Estonia and Norway by Juhani Ruotsalainen. New to Finland.

Russula fellea (Fr.) Fr.

FINLAND. Regio aboënsis (Ab/V), Raasepori, Tammi-saari, Bromarv, Riilahti. On protected area in the park, under *Fagus sylvatica*. UCS 6653216:3280317, coll. & det. Ville Kälviäinen, 27.IX.2009 (H6049213), conf. Juhani Ruotsalainen.

New to Finland.

Russula mairei Singer

FINLAND. Regio aboënsis (Ab/V), Raasepori, Tammi-saari, Bromarv, Riilahti. On protected area in the park, under *Fagus sylvatica*. UCS 6653216:3280317, coll. & det. Ville Kälviäinen, 27.IX.2009 (H6049224), conf. Juhani Ruotsalainen.

New to Finland.

Russula roseicolor J. Blum

FINLAND. Savonia borealis, (Sb/PS), Kuopio, Vehmersalmi, Salmenranta, Päivärinne. Old *Pinus sylvestris* dominated forest with *Picea abies*. UCS 696258.355074, coll. & det. Juhani Ruotsalainen 9111, 24.IX.2013 (KUO); Kuopio, Vehmersalmi. Church yard, cemetery, with *Pinus sylvestris*. UCS 6962270:3553145, coll. & det. Juhani Ruotsalainen 9260F, 11.X. 2014 (TUR, KUO); Regio kuusamoënsis (Ks/Ks), Kuusamo, Juuma, W of Putaan-saari – Jäkälävuoma. *Pinus sylvestris* dominated forest. UCS 73537–9:36091–2, coll. Per Marstad, 31.VIII.2005, det. Juhani Ruotsalainen 7082 (KUO) in 2014.

Section *Incrustatae* subsection *Chamaeleontinae*. New to Finland.

Ascomycota

Camarops tubulina (Alb. & Schwein.) Shear

FINLAND. Karelia borealis (Kb/PK), Ilomantsi, Sivakko-vaara, Pampalo, on a fallen trunk of *Picea*. UCS 6995:3715–6, coll. & det. Åke Strid S-F9485, 28.VIII.1996 (S); Ostrobothnia ultima (Obu/PeP), Rovaniemi, Pisavaara Strict Nature Reserve, on a large trunk of *Picea abies*. UCS 73537:34155, coll. Petri Roponen, 4.IX.2013 (TUR), det. Henning Knudsen & Unto Söderholm; Tervola, Pisavaara Strict Nature Reserve, on the upper side of a decorticated, well-decayed, fallen *Picea abies* trunk (diam. 30 cm) in spruce-dominated old heath forest, 97 m a.s.l., one stroma. UCS 7353772:3415451, coll. Matti Kulju 38/13 & Anna Liisa Ruotsalainen, 19.IX.2013 (TUR), conf. Unto Söderholm in 2013; Lapponia sompiensis (SoL), Pelkonniemi, Pyhä-Luosto National Park, Pyhäntunturi NW. Old-growth spruce forest, on *Picea abies* trunk diam. 50 cm with *Amylocystis lapponica* and *Fomitopsis rosea*. UCS 7437157:3504493, coll. & det. Jorma Pennanen 2683, 11.IX. 2013 (TUR).

Very rare in Finland, all known collections are listed here.

Eutypella extensa (Fr.: Fr.) Sacc.

FINLAND. Regio aboënsis (Ab/V), Parainen, Ävensör, Kirmo. In branches of *Rhamnus cathartica*. UCS 669997:319897, coll. Esa Kalska & Unto Söderholm 4753, 05.X. 2014, det Unto Söderholm (TUR).

New to Finland.

Hyaloscypha epiporia Huhtinen

FINLAND. Lapponia sompiensis (SoL), Savukoski, Urho Kekkonen National Park, Kemihäärä-Naltio. Pine (*Pinus sylvestris*) dominated forest, on pore side of dead *Amylocystis lapponica*. UCS 7542284:3584282, coll. Jorma Pennanen 2166, 10. IX. 2012, det. Jorma Pennanen & Unto Söderholm (TUR).

New record of this very rare taxon.

Octospora coccinea (P. Crouan & H. Crouan)

Brumm.

FINLAND. Savonia australis (Sa/ES), Lappeenranta, Kourulanmäki, a ruderate area between Kourulanmäki and the rubbish dumps from the cement factory. Field margin, clayey ground by a ditch, with *Tortula truncata*, *Dischelimium nudum*, *Bryum argenteum* and *Cephaloziella*. UCS 6770022:3564951, coll. Sanna Huttunen, 20.IX.2014, det Seppo Huhtinen 2014 (TUR); Tavastia borealis (Tb/PH), Multia, Lehtomäki, E of the farm house. Pastured forest on E slope with *Picea abies*, *Betula*, *Pinus sylvestris*, *Alnus incana*, *Populus tremula* and *Salix caprea*, near a brook, on bare mull soil. UCS 69319:34047, coll. Jouni Issakainen & Jukka Vauras 30178, 8.IX.2013, det. Seppo Huhtinen 2013 (TUR-A).

New to Finland.

***Sowerbyella imperialis* (Peck) Korf**

FINLAND. *Tavastia australis* (Ta/EH), Urjala, Raikko, Kivijärvenlehto. Nature reserve area. In grass-herb spruce (*Picea abies*) forest among spruce needles and mosses, on calcareous soil. UCS, 6770:3308, coll. & det. Jarkko Korhonen & Tea v. Bonsdorff 92–14, 14.–15.X.2014 (H6049945, TUR).

This is the second known locality in Finland, previous one is from Regio aboënsis (Ab/V), Parainen (TUR). Red-listed as Critically endangered (CR) in Finland (von Bonsdorff et al. 2010, Rassi et. al. 2010).

***Sporormiella megalospora* (Auersw.) S.I. Ahmed & Cain**

FINLAND. Regio aboënsis (Ab/V), Parainen, Åvensör, Kirmo. On sheep dung. UCS 669997:319897, coll. & det. Unto Söderholm 4754, 05.X. 2014 (TUR).

New to Finland.

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