Lichenicolous Biota (Nos 81–100)

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Abstract: The fourth fascicle (20 numbers) of the exsiccata "Lichenicolous Biota" is published. This issue contains material of 20 non-lichenized fungal taxa (13 ascomycetes, 3 basidiomycetes, 4 anamorphic fungi), including isotype material of *Polycoccum minutulum* Kocourk. & F.Berger (no 86) and of *Stigmidium hesperium* Kocourk., K.Knudsen & Diederich (no 89), as well as paratype material of *Chaenothecopis kalbii* Tibell & K.Ryman (no 93), furthermore collections of the type species of *Arborillus* (*A*. *ilimonae*), *Marchandiobasidium* (*M. aurantiacum*), *Illosporiopsis* (*I*. *christiansenii*), *Phacographa* (*P*. *glaucomaria*), *Phacothecium* (*P*. *varium*), *Phaeopyxis* (*P*. *punctum*), and *Sclerococcum* (*S*. *sphaerale*).

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Introduction

With fascicle 4 the first centuria of "Lichenicolous Biota" is completed. Previously published fascicles appeared in the period 2007–2009 (see HAFELLNER 2007, 2008, 2009).

The exsiccata "Lichenicolous Biota" covers all lichenicolous biota. The exsiccata is open to non-lichenized and lichenized fungi, but also to myxomycetes, bacteria, and even animals, whenever they cause a characteristic symptom on their host (e.g., discoloration or galls). Consequently, the exsiccata contains both highly host-specific and plurivorous species, as long as the individuals clearly grow upon a lichen and the collection is homogeneous, so that identical duplicates can be prepared.

The five complete sets are sent to herbaria of the following regions: Central Europe (Graz [GZU]), Northern Europe (Uppsala [UPS]), Western Europe (Bruxelles [BR]), North America (New York [NY]), Australasia (Canberra [CANB]). Incomplete sets will preferably be distributed to Barcelona [BCN], Edinburgh [E], Leningrad [LE], Munich [M], and Prague [PRM] (herbarium acronyms sec. HOLMGREN et al. 1990, continued and updated as electronic database by THIERS 2010,

onwards and hosted at New York Botanical Garden http://sciweb.nybg.org/science2/IndexHerbariorum.asp). It is planned to publish at least one fascicle per year, consisting of a variable number of decades.

For the 4th issue, I gratefully acknowledge the contribution of four collections by Jana KOCOURKOVÁ (syn. J. HORÁKOVÁ) [one together with Pavel KOCOUREK], two collections by Rainer CEZANNE and Marion EICHLER, two collections by Walter OBERMAYER, two collections by Paul DIEDERICH and Damien ERTZ, one collection each by Jan VONDRÁK (together with Jaroslav ŠOUN) and Franz PRIEMETZHOFER (together with Franz BERGER). In fieldwork I received support by Angela HAFELLNER, Walter OBERMAYER, and Roderick ROGERS. Paul DIEDERICH, Damien ERTZ, Jana KOCOURKOVÁ, Laurens SPARRIUS, and Leif TIBELL contributed to the scientific content of the fascicle by the identification of either lichenicolous fungi or hosts. Walter OBERMAYER is thanked for critically reading the manuscript.

I would be much obliged to colleagues who send material of lichenicolous biota for distribution in future fascicles. The collections should be divided up into at least 5 (up to 10) duplicates, preferably already prepared. Unprepared collections should be rich enough to obtain at least 5 duplicates.

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81. ***Cladosporium arthoniae*** M.S.Christ. & D.Hawksw.

in Hawksworth, Bull. Brit. Mus. (Nat. Hist.) Bot. ser. 6(3): 210 (1979).

Host: *Dirina stenhammari* (thallus)

Europe, **Ukraine**: Crimean Peninsula, Bakhchysarai, Mashino, limestone cliff 500 m NW of the village, 44°42’04’’N / 33°54’26’’E, *c*. 350 m alt.; on base of the cliff, on limestone in overhangs.

Note 1: The type host of *Cladosporium arthoniae* is *Arthonia impolita* of which it infests the apothecia.

Note 2: *Dirina stenhammari* is regarded by some lichenologists as a synonym of *Dirina massiliensis* f. *sorediata*.

10. VI. 2006 leg. J. Vondrák (4613) & J. Šoun, det. L. Sparrius

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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82. ***Illosporiopsis christiansenii*** (B.L.Brady & D.Hawksw.) D.Hawksw.

in Sikaroodi et al., Mycol. Res. 105: 457 (2001). – Bas.: *Hobsonia christiansenii* B.L.Brady & D.Hawksw. in Lowen et al., Mycologia 78: 842 (1986).

Host: *Physcia adscendens* (thallus) and *Phaeophyscia orbicularis* (thallus)

Europe, **Germany**: Hessen, Hessische Rheinebene, SW of Riedstadt-Leeheim, 49°50’35’’N / 8°23’50’’E, *c*. 85 m alt., MTB 6116/3; orchard, on twigs of *Malus domestica*.

Note: The type host of *Illosporiopsis christiansenii* is *Candelaria concolor*.

31. X. 2009 leg. R. Cezanne & M. Eichler, det. R. Cezanne & M. Eichler

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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83. ***Lichenochora aipoliae*** Etayo, Nav.-Ros. et Coppins

in Etayo & Navarro-Rosinés, Revista Catalana de Micologia 30: 31 (2008).

Host: *Physcia aipolia* (thallus, apothecial margins)

Europe, **Austria**: Styria, Oststeirisches Riedelland, 8 km E of the centre of Graz, 3.3 km WNW of Laßnitzhöhe, Äußere Ragnitz, 47°04’40’’N / 15°32’20’’E, c. 460 m alt., GF 8959/1, deciduous trees along a grain field, on canopy branches of *Salix* spec.

Note 1: The infection of *Physcia aipolia* with *Lichenochora aipoliae* induces the formation of more or less conspicuous galls.

Note 2: The basidiomycete *Syzygospora physciacearum* Diederich is developed on several lobes of Physcia aipolia on the specimen in GZU and may also be present on the duplicates. Material of *Syzygospora physciacearum* is distributed under Lichenicolous Biota no. 100.

30. IV. 2006 leg. W. Obermayer (11369), det. J. Hafellner

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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84. ***Marchandiobasidium aurantiacum*** Diederich & Schultheis

in Diederich et al., Mycol. Res. 107: 524 (2003).

Host: *Physcia adscendens* (thallus) and *Physcia tenella* (thallus)

Europe, **Germany**: Hessen, Hessische Rheinebene, SW of Riedstadt-Leeheim, 49°50’35’’N / 8°23’50’’E, *c*. 85 m alt., MTB 6116/3; orchard, on twigs of *Malus domestica*.

Note: *Physcia tenella* is the type host of *Marchandiobasidium aurantiacum*.

31. X. 2009 leg. R. Cezanne & M. Eichler, det. R. Cezanne & M. Eichler

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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85. ***Paranectria oropensis*** (Ces.) D.Hawksw. & Piroz.

in Can. J. Bot. 55: 2555 (1977). – Bas.: *Sphaeria Nectria oropensis* Ces. in Rabenhorst, Bot. Zeitung 15: 406 (1857); Rabenhorst, Herb. Mycol., ed. 2, no. 524 (1863). – Syn.: *Nectria oropensis* (Ces.) Tul. & C.Tul. in Sel. Fung. Carp. 3: 95 (1865). – *Ciliomyces oropensis* (Ces. in Rabenh.) Höhn. in Sitzungsber. Akad. Wiss. Wien, Math.-Naturwiss. Kl. 115: 25 (1906).

Host: *Phaeophyscia orbicularis* (thallus)

Europe, **Austria**: province of Styria, Graz, Schubertstraße avenue near junction with Holteigasse, 47°04’55’’N / 15°27’30’’E, *c*. 375 m alt., GF8958/2; roadside trees, on bark of *Aesculus hippocastanum*.

Note: *Paranectria oropensis* has become more common in Central Europe in recent times. Infections with this aggressive lichenicolous fungus have considerable importance as succession factor in corticolous lichen synusiae comparable to that of *Athelia arachnoidea*. (compare Hafellner & Obermayer, Herzogia 22: 177–190, 2009).

15. V. 2006 leg. J. Hafellner (73127), det. J. Hafellner

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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86. ***Polycoccum minutulum*** Kocourk. & F.Berger
Isotype

in Czech Mycology 51: 171 (1999).

Host: *Trapelia placodioides* (thallus)

Europe, **Czech Republic**: Central Bohemia, Distr. Rakovník, Roztoky, valley of Klucná brook, 50°0’46.114’’N / 13°51’56.768’’E, *c*. 280 m alt.; on west-facing slope, on rhyolite.

Note: *Trapelia placodioides* is the type host of *Polycoccum minutulum*.

31. VIII. 1997 leg. P. Kocourek & J. Kocourková (PRM 842975), det. J. Kocourková

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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87. ***Sclerococcum sphaerale*** (Ach.) Fr.

in Scleromyceti suecici no. 179 (1821). – Bas.: *Spiloma sphaerale* Ach. in Synopsis Method. Lich.: 2 (1814). – Syn.: *Acolium sphaerale* (Ach.) Rehm in Ascomyceten: Hysteriaceen und Discomyceten, Rabenhorst's Kryptogamen-Flora, 2. Aufl., Bd. 1(3): 400 (1889). – *Spilomium sphaerale* (Ach.) H.Olivier in Exposé Lich. Ouest France 2: 402 (1903). – *Coniothecium sphaerale* (Ach.) Keissl. in Flechtenparasiten, Rabenhorst's Kryptogamen-Flora, 2. Aufl., Bd. 8: 616 (1930).

Host: *Pertusaria corallina* (thallus)

Europe, **Czech Republic**: Central Bohemia, Distr. Benešov, Louňovice pod Blaníkem, below top of Velký Blaník Mt., 49°38’29.903’’N / 14°52’24.305’’E, *c*. 620 m alt.; in beech forest, on semi-shady boulder scree, on granite.

Note: *Pertusaria corallina* is the type host of *Sclerococcum sphaerale*.

24. VI. 1995 leg. J. Horáková (PRM 915686), det. J. Horáková

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2010: Lichenicolous Biota (Nos 81–100). - Fritschiana 67: 11–26.

88. ***Sphinctrina anglica*** Nyl.

in Synopsis Methodica Lichenum 1: 143 (1860).

Host: *Protoparmelia hypotremella* (thallus)

Europe, **Austria**: Lower Austria, Thayatal National Park, *c*. 0.8 km SW of Hardegg, rocky hilltop exposed to SW above the creek Fugnitz, 48°50’55’’N / 15° 51’E, *c*. 350 m alt.; open mixed forest, on dead decorticated branches of *Pinus sylvestris*.

Note 1: Originally the species was not recognized as being lichenicolous. *S. anglica* is based on a type originating from eastern North America (New England).

Note 2: Löfgren & Tibell (Lichenologist 11: 122, 1979) regarded the name as a nomen novum for the invalidly published *Lichen microcephalus* Sm. and simultaneously proposed a neotype. The bibliographic source cited by them (Nylander, Mém. Soc. Imp. Sci. Nat. Cherbourg 5: 334, 1857) in my opinion does not allow this interpretation.

5. IV. 2009 leg. F. Priemetzhofer & F. Berger, det. F. Berger

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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89. ***Stigmidium hesperium*** Kocourk., K.Knudsen & Diederich
Isotype

in Kocourková & Knudsen, Czech Mycology 61(1): 76 (2009).

Host: *Caloplaca coralloides* (thallus, apothecial margins)

North America, **U.S.A.**: California, Monterey Co., along coast S of Asilomar, China Rock, 36°35'28"N / 121°57'53"W, *c*. 5 m alt.; on a costal rock.

Note: *Caloplaca coralloides* is the type host of *Stigmidium hesperium*.

19. VII. 2008 leg. P. Diederich (16787) & D. Ertz, det. P. Diederich

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

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90. ***Weddellomyces xanthoparmeliae*** Calatayud et Nav.-Ros.

in Mycotaxon 69: 505 (1998).

Host: *Xanthoparmelia conspersa* (thallus, partly also apothecia)

Europe, **Czech Republic**: South Moravia, Distr. Znojmo, Chvalatice, dam Vranov, near Chvalatická zátoka bay, 48°56’24.038’’N / 15°45’58.549’’E, *c*. 360 m alt.; boulder scree on south-facing slope, on quartzitic rock.

Note 1: The type host of *Weddellomyces xanthoparmeliae* is *Xanthoparmelia* cf. *protomatrae*.

Note 2: *Lichenostigma cosmopolites* Hafellner & Calatayud (det. J. Hafellner) is also present on all duplicates but its ascomata may be poorly developed.

6. IX. 1998 leg. J. Kocourková (PRM 758529), det. J. Kocourková

distributed to: BCN, BR, CANB, E, GZU, LE, M, NY, PRM, UPS

Hafellner J. 2010: Lichenicolous Biota (Nos 81–100). - Fritschiana 67: 11–26.

91. ***Arborillus llimonae*** Munt.-Cvet. et Gómez-Bolea

in Mycotaxon 64: 152 (1998).

Host: *Diploschistes scruposus* (thallus)

Europe, **Czech Republic**: Central Bohemia, Distr. Rakovník, Roztoky, Stříbrný luh Nature Reserve, above the Berounka River, 50°1'9''N / 13°53'41''E, *c*. 280 m alt., MTB 5949 C14; on west-facing slope in mixed thin forest, on shale.

Note: The type host of *Arborillus llimonae* is *Diploschistes diacapsis*.

23. VII. 2000 leg. J. Kocourková (PRM 915687), det. J. Kocourková

distributed to: BCN, BR, CANB, GZU, NY, PRM, UPS

Hafellner J. 2010: Lichenicolous Biota (Nos 81–100). - Fritschiana 67: 11–26.

92. ***Athelia arachnoidea*** (Berk.) Jülich

in Willdenowia, Beiheft 7: 53 (1972). – Bas.: *Corticium arachnoideum* Berk. in Ann. Mag. Nat. Hist. 13: 345 (1844). – Syn.: *Athelia bispora* (J.Schröt.) Donk, in Fungus 27: 12 (1957).

Host: *Phaeophyscia orbicularis* (thallus)

Europe, **Austria**: Styria, Graz, Schubertstraße avenue near junction with Holteigasse, 47°04'55''N / 15°27'30''E, *c*. 375 m alt., GF8958/2; roadside trees, on bark of *Aesculus hippocastanum*.

Note: A type host is not given in the protologue. It was described as creeping over mosses and lichens on fallen sticks.

15. V. 2006 leg. J. Hafellner (73126), det. J. Hafellner

distributed to: BCN, BR, CANB, GZU, M, NY, UPS

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93. ***Chaenothecopsis kalbii*** Tibell & K.Ryman
Paratype

in Nova Hedwigia 60: 206(1995).

Host: *Lecanora caesiorubella* (thallus / apothecial margins)

Australia: Queensland, Tandora, about 25 km ENE of Maryborough, 25°27'S / 152°52'E, at sea level; mangroves.

Note 1: The type host of *Chaenothecopsis kalbii* is a neotropical *Lecanora* only determined to genus level.

Note 2: Material from the same large collection has also been distributed in Santesson, Fungi lichenicoli exsiccati no. 259.

23. VIII. 1986 leg. J. Hafellner (17926) & R. Rogers, det. L. Tibell

distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2010: Lichenicolous Biota (Nos 81–100). - Fritschiana 67: 11–26.

94. ***Chaenothecopsis parasitaster*** (Bagl. & Carestia) D.Hawksw.

in Notes R. Bot. Garden, Edinburgh 36: 184 (1978). – Bas.: *Calicium pusillum* var. *parasitaster* Bagl. & Carestia in Atti Soc. Crittog. Ital. 2: 246 (1880).

Host: *Cladonia digitata* (thallus)

Europe, **Austria**: Styria, Eastern Alps, Niedere Tauern, Triebener Tauern, in the small valley Schleifgraben E above the village St. Johann am Tauern, 47°21'40''N / 14°29'05''E, *c*. 1280 m alt., GF 8652/2, montane spruce forest, on rotten stumps.

Note: The type host of *Chaenothecopsis parasitaster* is *Cladonia deformis*.

29. IX. 2001 leg. J. Hafellner (57551), det. J. Hafellner

distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2010: Lichenicolous Biota (Nos 81–100). - Fritschiana 67: 11–26.

95. ***Opegrapha geographicola*** (Arnold) Hafellner

in Herzogia 10: 12 (1994). – Bas.: *Phaeospora geographicola* Arnold in Verh. Zool.-Bot. Ges. Wien 46: 140 (1896). – Syn.: *Leptosphaeria geographicola* (Arnold) Sacc. & D.Sacc. in Sylloge Fungorum 17: 731 (1905). – *Weddellomyces geographicola* (Arnold) Alstrup & D. Hawksw. in Meddel. om Grønland, Biosci. 31: 74 (1990).

Host: *Rhizocarpon geographicum* (thallus)

Europe, **Austria**: Styria, Eastern Alps, Niedere Tauern, Schladminger Tauern, E slopes of the ridge between the mountains Gasselhöhe and Rippetegg SW of the town Schladming, by the trail from the refuge Gasselhöhehütte to the lake Mittersee, 47°21’10’’N / 13°35’50’’E, *c*. 1800 m alt., GF 8647/2, mossy boulders of micaschist in dwarf shrub communities at the treeline, on inclined rock faces.

Note: *Rhizocarpon geographicum* is the type host of *Opegrapha geographicola*.

24. VIII. 2001 leg. J. Hafellner (64108) & W. Obermayer, det. J. Hafellner

distributed to: BR, CANB, GZU, NY, UPS

Hafellner J. 2010: Lichenicolous Biota (Nos 81–100). - Fritschiana 67: 11–26.

96. ***Phacographa glaucomaria*** (Nyl.) Hafellner

in Bibliotheca Lichenologica 100: 102 (2009). – Bas.: *Lecidea glaucomaria* Nyl. in Bot. Notiser 1852: 177 (1852). – Syn.: *Opegrapha glaucomaria* (Nyl.) Källsten ex Hafellner in Bull. Soc. Linn. Provence 45: 227 (1994).

Host: *Lecanora bicincta* (thallus)

Europe, **Austria**: Styria, Eastern Alps, Niedere Tauern, Schladminger Tauern, Krahbergzinken SE of the town Schladming, steep slopes exposed to SW short below the summit, 47°21’20’’N / 13°44’30’’E, *c*. 2050 m alt., GF 8648/1; small cliffs of micaschist surrounded by alpine meadows, on vertical rock faces.

Note: The type host of *Phacographa glaucomaria* is *Lecanora rupicola*.

13. VIII. 2001 leg. J. Hafellner (56404), det. J. Hafellner

distributed to: BR, CANB, GZU, NY, UPS

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97. ***Phacothecium varium*** (Tul.) Trevis.

in Linnaea 28: 298 (1856). – Bas.: *Phacopsis varia* Tul. in Ann. Sci. Nat., Bot., sér. 3., 17: 125 (1852). – Syn.: *Lecidea physciaria* Nyl. in Suppl. Lich. Paris: 8 (1897). – *Opegrapha physciaria* (Nyl.) D.Hawksw. & Coppins in Coppins et al., Lichenologist 24: 367 (1992).

Host: *Xanthoria calcicola* (thallus)

Africa, **Canary Islands**: Lanzarote, Peña de la Pequeña NE above the village Los Valles, El Agujero, summit area, 29°07’20’’N / 13°29’50’’W, *c*. 500 m alt., boulders and low cliffs of basaltic rock in succulent shrub community, on inclined rock faces exposed to the S.

Note: The type host of *Phacothecium varium* is *Xanthoria parietina*.

8. IV. 1999 leg. A. Hafellner & J. Hafellner (47668), det. J. Hafellner

distributed to: BR, CANB, GZU, NY, UPS

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98. ***Phaeopyxis punctum*** (A.Massal.) Rambold, Triebel & Coppins

in Rambold & Triebel, Notes Roy. Bot. Garden Edinburgh 46: 384 (1990). – Bas.: *Nesolechia punctum* A.Massal. in Sched. Crit. Lich. Exs. Italiae 5: 96 (1856). – Syn.: *Lecidea punctum* (A.Massal.) Jatta in Sylloge Lichenum Italicorum: 353 (1900).

Host: *Cladonia sulphurina* (thallus)

North America, **Canada**: British Columbia, Wells Gray Provincial Park, Trophy Mountain, around "Trophy Meadows", 51°45’N / 119°56’W, *c*. 1750 m alt.; coniferous forest, on rotten trunk

Note 1: In the protologue the host is only given to genus level (*Cladonia*).

Note 2: Type material has been distributed in Massalongo, Lich. Ital. Exs. 153. Rambold & Triebel (l.c.) revised two isotypes stored in M but did not mention the type host either.

24. VII. 2008 leg. D. Ertz (12588) & P. Diederich, det. D. Ertz

distributed to: BR, CANB, GZU, LE, NY, UPS

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99. ***Stigmidium congestum*** (Körb.) Triebel

in Triebel et al., Mycotaxon 42: 290 (1991). – Bas.: *Pharcidia congesta* Körb. in Parerga Lichenologica: 470 (1865).

Host: *Lecanora chlarotera* (hymenia)

Europe, **Austria**: Styria, Eastern Alps, Steirisches Randgebirge, Fischbacher Alpen, on the saddle between the mountains Ederkogel and Aibel, NE of the village St.Jakob bei Mixnitz, 47°25'00''N / 15°27'50''E, *c*. 1100 m alt., GF 8558/4, row of deciduous trees at the edge of a meadow, on bark of *Fraxinus excelsior*.

Note: *Lecanora chlarotera* (f. *rugosella*) is the type host of the species.

29. IX. 1999 leg. J. Hafellner (59544), det. J. Hafellner

distributed to: BR, CANB, GZU, M, NY, UPS

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100. ***Syzygospora physciacearum*** Diederich

in Biblioth. Lichenol. 61: 38 (1996).

Host: *Physcia aipolia* (thallus, apothecial margins)

Europe, **Austria**: Styria, Oststeirisches Riedelland, 8 km E of the centre of Graz, 3.3 km WNW of the village Laßnitzhöhe, Äußere Ragnitz, 47°04'40''N / 15°32'20''E, *c*. 460 m alt., GF 8959/1; row of deciduous trees along a grain field, on canopy branches of *Salix* spec.

Note: The pyrenomycete *Lichenochora aipoliae* Hafellner is developed on several lobes of *Physcia aipolia* on the specimen in GZU and may also be present on the duplicates. Material of *Lichenochora aipoliae* is distributed under Lichenicolous Biota no. 83.

30. IV. 2006 leg. W. Obermayer (11369a), det. J. Hafellner

distributed to: BCN, BR, CANB, GZU, NY, UPS

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Phaeophyscia orbicularis	*Illosporiopsis christiansenii*	82
Phaeophyscia orbicularis	*Paranectria oropensis*	85
Physcia adscendens	*Illosporiopsis christiansenii*	82
Physcia adscendens	*Marchandiobasidium aurantiacum*	84
Physcia aipolia	*Lichenochora aipoliae*	83
Physcia tenella	*Marchandiobasidium aurantiacum*	84
Protoparmelia hypotremella	*Sphinctrina anglica*	88
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Trapelia placodioides	*Polycoccum minutulum*	86
Xanthoparmelia conspersa	*Weddellomyces xanthoparmeliae*	90
Xanthoparmelia conspersa	*Lichenostigma cosmopolites*	90
Xanthoria calcicola	*Phacothecium varium*	97

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Country (or Archipelago)	Lichenicolous taxon	Exs. no.
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	Sphinctrina anglica	88
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