FRITSCHIANA

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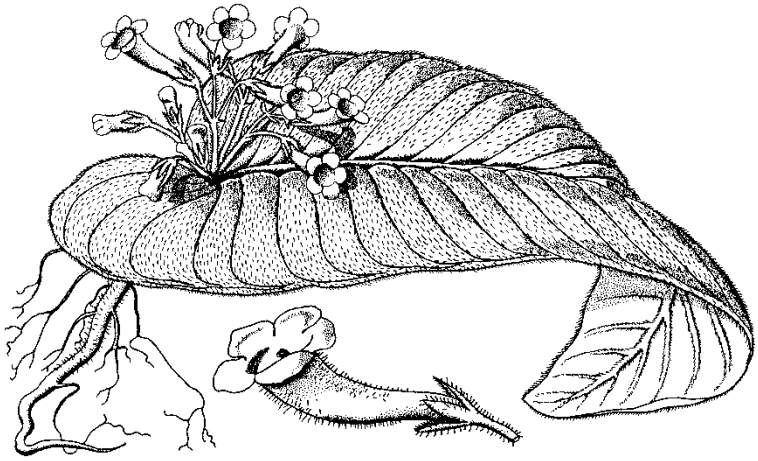

Veröffentlichungen aus dem
Institut für Pflanzenwissenschaften
der Karl-Franzens-Universität Graz

Walter OBERMAYER

Dupla Graecensia Lichenum (2013, numbers 801–960)

Josef HAFELLNER

Lichenicolous Biota (Nos 151–180)

Graz, 20. Dezember 2013

Hofrat Prof. Dr. Karl FRITSCH

(∗ 24.2.1864 in Wien, † 17.1.1934 in Graz)

Karl FRITSCH studierte nach einem Jahr in Innsbruck an der Universität Wien Botanik und wurde dort 1886 zum Dr.phil. promoviert; 1890 habilitierte er sich. Nach Anstellungen in Wien wurde FRITSCH 1900 als Professor für Systematische Botanik an die Universität Graz berufen, wo er aus bescheidenen Anfängen ein Institut aufbaute. 1910 wurde er Direktor des Botanischen Gartens, 1916 wurde das neu errichtete Institutsgebäude bezogen. Aus der sehr breiten wissenschaftlichen Tätigkeit sind vor allem drei Schwerpunkte hervorzuheben: Floristisch-systematische Studien, besonders zur Flora von Österreich, monographische Arbeiten (besonders über *Gesneriaceae*) und Arbeiten zur systematischen Stellung und Gliederung der Monocotylen. An Kryptogamen interessierten ihn besonders Pilze und Myxomyceten.

Nachrufe: KNOLL F. 1934: Karl Fritsch. - Berichte der Deutschen Botanischen Gesellschaft 51: (157)–(184) [mit Schriftenverzeichnis]. - KUBART B. 1935: Karl Fritsch. - Mitteilungen des Naturwissenschaftlichen Vereins für Steiermark 71: 5–15 [mit Porträt]. - TEPPNER H. 1997: Faszination versunkener Pflanzenwelten. Constantin von Ettingshausen - ein Forscherportrait. - Mitteilungen Geologie und Paläontologie am Landesmuseum Joanneum 55: 133–136. - Im übrigen vgl. STAFLEU F.A. & COWAN R.S. 1976, Taxonomic Literature 1: 892 und BARNHART J.H. 1965: Biographical Notes upon Botanists 2: 12.

Graz, November 1997 Herwig TEPPNER

Die Serie FRITSCHIANA wurde als Publikationsorgan für die zahlreichen Aktivitäten im Zusammenhang mit der botanischen Sammlung des Institutes für Pflanzenwissenschaften, Bereich Systematische Botanik und Geobotanik (vormals Institut für Botanik), der Karl-Franzens-Universität Graz (GZU) gegründet. Vor allem Schedae-Hefte der von den Mitarbeitern herausgegebenen Exsiccatenwerke sollten hier erscheinen, aber auch Exkursionsberichte sowie Listen und Indices besonders wertvoller Bestände in GZU. Das Spektrum wurde mittlerweile auf floristische und kleinere taxonomische Arbeiten (zwischenzeitlich auch auf das Samentauschverzeichnis des Botanischen Gartens) ausgeweitet. Die Schedae-Hefte des von Prof. Dr. Josef POELT begründeten, inzwischen abgeschlossenen Exsiccatenwerkes Plantae Graecenses sind die Vorläufer dieser Schriftenreihe.

Gesamtredaktion:

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ISSN 1024-0306
Key title = Abbreviated title: Fritschiana (Graz)

Umschlagsbild: *Carolofritschia diandra* ENGL. (= *Acanthonema strigosum* HOOK.f.); nach einer Zeichnung in HUTCHINSON, J. & HEPPER, F.N. 1963, Flora of West Tropical Africa, Ed. 2, Vol. II: 382.

FRITSCHIANA

Veröffentlichungen aus dem
Institut für Pflanzenwissenschaften
(Bereich Systematische Botanik und Geobotanik)
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Graz, 20. Dezember 2013

Neukombination in diesem Heft:
New combination in this issue:

Lecanographa dilleniana (Acharius) Hafellner & Obermayer
combinatio nova (page 20)

ISSN 1024-0306
Key title = Abbreviated title: Fritschiana (Graz)

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Date of publication: 20 December 2013
Printed by: Druckerei Khil Ges.m.b.H., Neutorgasse 26, 8010 Graz, Austria

Dupla Graecensia Lichenum (2013, numbers 801–960)

Walter OBERMAYER*

OBERMAYER Walter 2013: Dupla Graecensia Lichenum (2013, numbers 801–960). - Fritschiana (Graz) 76: 1–45. – ISSN 1024-0306.

Abstract: Dupla Graecensia Lichenum (2013, numbers 801–960) comprises 160 collections (887 specimens) of lichen duplicates from the following 23 countries: Albania (county of Tiranë), Argentina (province Misiones), Armenia (province Wajoz Dsor), Australia (states New South Wales and Queensland), Austria (states Carinthia, Salzburg, Styria, Tirol, and Upper Austria), Brazil (states Mato Grosso, Minas Gerais, and São Paulo), Canada (province British Columbia), Costa Rica, Czech Republic (region South Bohemia), Ecuador (province Cotopaxi), France (region Rhône-Alpes, overseas region Guadeloupe), Germany (state Bavaria), Greece (region Crete), Guatemala (department El Quiché), Italy (regions Lombardia, Piemonte, Trentino-Südtirol, and Friuli - Venezia Giulia), Kosovo, Liechtenstein, Mazedonia, Montenegro, Slovenia, Spain (Balearic Islands), U.S.A. (states Alaska, Montana, and Hawaii), and Uruguay (department Lavalleja). TLC-investigations were carried out for 29 lichenized taxa. The following new combination is introduced: *Lecanographa dilleniana* (Acharius) Hafellner and Obermayer.

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The dwarf-exsiccata 'Dupla Graecensia Lichenum' is issued by the herbarium of the Institute for Plant Sciences of the Karl-Franzens-University, Graz, Austria (international herbarium acronym: GZU). It includes lichens from all over the world with at least five duplicates of each collection. Each institution receiving a duplicate is cited (at the bottom line of each individual label) with its international herbarium acronym. The herbaria in Canberra (CANB), Graz (GZU), Munich (M), New York (NY), and Uppsala (UPS) are receiving all distributed specimens continuously. 'Dupla Graecensia Lichenum' is published as text version (with online corrections) under http://www-classic.uni-graz.ac.at/walter.obermayer/dupl-graec.htm. A downloadable PDF-file can be found under http://www-classic.uni-graz.at/walter.obermayer/dupla-graecensia-lichenum-2013.pdf.

Label texts originally drafted in a local language have been translated into English by the author. The nomenclatural authorities of lichenized fungi are NOT given in any abbreviated style and are (mostly) taken from 'The International Plant Names Index' (IPNI) (see http://www.ipni.org/index.html).

I wish to thank all the collectors and keepers of private herbaria for their contributions, in particular Franz BERGER, Josef HAFELLNER, Klaus KALB (he provided also material of a collection of Otto and Isa DEGENER), Helmut MAYRHOFER, Héctor OSORIO, Zdeněk PALICE, Toby SPRIBILLE, and Roman TÜRK. I am very grateful to the following colleagues, who helped with determinations: Ulf ARUP, Othmar BREUSS, Josef HAFELLNER (especially regarding admixed parasites), Thomas KASALICKY, Martin KUKWA, Jiří MALÍČEK, Helmut MAYRHOFER, Hiroyuki KASHIWADANI, Harrie SIPMAN, and Orvo VITIKAINEN. Josef HAFELLNER and Christian SCHEUER kindly checked the manuscript for errors.

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801. **Absconditella lignicola** Vězda and Pisut

AUSTRIA, Oberösterreich (=Upper Austria), Reichraminger Hintergebirge [part of the National Park Kalkalpen], 27 km south of the centre of Steyr, 400–800 m southeast of Ebenforstalm, northwest-facing slopes between Geißlucke and Alpstein, 47°47'40–55"N, 014°25'25–50"E, (grid number 8252/2), elevation 1100–1300 m, primeval-forest-like vegetation with mainly *Fagus sylvatica* (with some intermixed *Picea abies* and *Abies alba*), on strongly rotten wood of *Fagus sylvatica*. – 3 August 2013, collected and determined by Walter Obermayer (12973).

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

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802. **Acrocordia cavata** (Acharius) Richard Harris

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm (orographically right side of the river Raab), 4.3 km west-southwest of Weiz, 0.2 km northwest of a water power station, near a dilapidated saw mill, 47°12'30"N, 015°34'15"E, (grid number 8759/3), elevation 470 m, riparian forest, on stem bark of *Fraxinus excelsior*. – 26 October 2009, collected and determined by Josef Hafellner (74662).

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803. **Alectoria ochroleuca** (Hoffmann) Abramo Massalongo

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 15 km west of Deutschlandsberg, north above the saddle Weinebene, Handalpe, ridge between Handalm and Weberkogel, 46°50'55"N, 015°01'00"E, (grid number 9156/3), elevation 1830 m, dwarf shrub heath (windblown ridge above the timberline), on ground. – 21 March 2012, collected and determined by Walter Obermayer (12440) [excursion together with Brian Coppins, Josef Hafellner and Helmut Mayrhofer].

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804. **Amandinea punctata** (Hoffmann) Coppins and Scheidegger

AUSTRIA, Steiermark (=Styria), Ennstaler Alpen, Gesäuseberge, Reichenstein-Massiv, 7.5 km southeast of Admont, ridge between Totenköpfel and Pfarrmauer, south-facing slopes north of Mödlinger Hütte, 47°32'50"N, 014°33'00"E, (grid number 8453/3), elevation 1950 m, small rock outcrop (Triassic limestone), on plant remnants. – 22 September 2007, collected by Josef Hafellner (69822), Lucia Muggia and Angela Hafellner, determined by Josef Hafellner.

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805. **Amandinea punctata** (Hoffmann) Coppins and Scheidegger

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm, 4.6 km west of the centre of Weiz, 600 m northeast of Gutenberg, orographically left side of the gorge, 47°12'55"N, 015°34'07"E, (grid number 8759/3), elevation 560 m, siliceous outcrops (schist) in loose mixed forest, on east-exposed inclined rock faces. – 23 August 2009, collected and determined by Josef Hafellner (74734).

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806. **Anzina carneonivea** (Anzi) Scheidegger
variety *carneonivea*

AUSTRIA, Kärnten (=Carinthia), Hohe Tauern, Ankogelgruppe, National Park Hohe Tauern, 13 km west-northwest of Malta, Gößkar, path from Gößkarspeicher to Gießener Hütte, 46°59'11"N, 013°20'34"E, (grid number 9046/1), elevation 1810 m, on dead wood of *Larix decidua* (lying on the ground). – 15 September 2013, collected and determined by Roman Türk (52296).

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807. **Arthonia accolens** Stirton

FRANCE, Guadeloupe (Lesser Antilles, Leward Islands), Île de Basse Terre, Côte Sous le Vent, Commune de Bouillante, Vallée de Beaugendre, elevation 300 m, on leaves. – 12 December 1987, collected by Jean Vivant (no collector number given; ex herbario Kalb 36548), determined by Klaus Kalb.

distributed to: **CANB, GZU, M, NY, UPS, herbarium Kalb**

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808. **Arthonia didyma** Körber

AUSTRIA, Tirol, Ammergauer Alpen (=Ammergebirge), 8.9 km east of Reutte, east-facing slopes of Soldatenköpfe (north of the lake Plansee), along Altenbergweg (lowermost part), 47°29'30"N, 010°50'05"E, (grid number 8531/1), elevation 1030 m, mixed forest, on bark of *Acer pseudoplatanus*. – 5 September 2004, collected and determined by Josef Hafellner (81199).

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809. **Bactrospora cascadensis** Ponzetti and McCune

CANADA, British Columbia, West Kootenays, Selkirk Mountains, Goat Range, Kuskanax River watershed, below Kimbol Lake, 50°17'32"N, 117°38'24"W, elevation 1120 m, oldgrowth Tsuga forest, on trunk of *Tsuga heterophylla*. – 9 August 2004, collected by Toby Spribille (15673), Craig Pettitt and Viktoria Wagner, determined by Toby Spribille.

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810. **Bilimbia sabuletorum** (Schreber) Arnold

AUSTRIA, Steiermark (=Styria), Totes Gebirge, 8.3 km east-northeast of the centre of Bad Aussee, close to the southern shore of the lake Grundlsee, Wienern, near the brook Arzbergbach, 47°37'46"N, 013°53'30"E, (grid number 8349/3), elevation 725 m, trees along the brook, on decaying bryophytes (covering the stem bark of *Fraxinus excelsior*). – 21 September 2013, collected by Walter Obermayer (13059), determined by Josef Hafellner (2013).

Note: Although richly fruiting, only badly developed asci and spores (5-septate, 37 x 6 µm) were found.

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811. **Brigantiaea fuscolutea** (Dickson) Rolf Santesson

U.S.A., Alaska, Juneau area, Mendenhall Glacier, immediately behind the Mendenhall Glacier Visitor's Center, 58°24'54"N, 134°32'41"W, elevation 77 m, glacially scoured seepy bedrock, on shallow soil and mosses over granitic rock. – 22 September 2010, collected and determined by Toby Spribille (34890).

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812. **Bryoria capillaris** (Acharius) Brodo and David Hawksworth

ITALY, Trentino-Alto Adige [Trentino-Südtirol], Dolomites, 21 km southeast of the centre of Bozen, west-facing slopes of Latemar, near Reiter Joch, 46°21'15"N, 011°32'25"E, elevation 2000 m, high montane conifer forest near the timber line, on twigs of *Picea abies*. – September 1989, collected and determined by Walter Obermayer (12565).

Note: At the time of issuing the present exsiccata, the thalli of all specimens already have changed their brownish colour to reddish, which is caused by the presence of the alectorialic/barbatolic acid complex.

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813. **Buellia griseovirens** (Turner and Borrer ex Smith) Almborn

AUSTRIA, Oberösterreich (=Upper Austria), Ennstaler Alpen, Bosruck-Massiv, east of Pyhrnpass, path from the pass to Lahnerkogel, SW below Fuchsalm, near the spring of the brook Pyhrnbach, 47°37'05"N, 014°18'35"E, (grid number 8351/4), elevation 1030 m, stand of *Alnus incana* (in a spring fen), on stem bark of *Alnus incana*. – 2 November 2007, collected by Josef Hafellner (69227) and Lucia Muggia, determined by Josef Hafellner.

Note: All specimens with apothecia.

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814. **Buellia tetrapla** (Nylander) Müller Argoviensis

AUSTRALIA, Queensland, between Mount Glorious and Lake Wivenhoe, Pryde Creek, 27°24'S, 152°38'E, elevation 150 m, loose scrubland with *Acacia* and granitic rocks, on bark. – 29 August 1995, collected by Klaus Kalb (33904) and Roderick Rogers, determined by Klaus Kalb.

distributed to: **CANB, GZU, M, NY, UPS, herbarium Kalb**

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815. **Calicium trabinellum** (Acharius) Acharius

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, Steinplan, 8 k m southeast of Knittelfeld, southwestern slopes between Stadlmoarhütte and Steinplanhütte, 47°09'15"N, 014°53'05"E, (grid number 8855/1), elevation 1480 m, subalpine spruce forest (with scattered clearings), on decayed wood of a tree stump. – 30 July 2005, collected and determined by Josef Hafellner (65392).

Note: All specimens show immersed pycnidia with wide open ostioles which are yellow at the margin.

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816. **Caloplaca arnoldiiconfusa** Gaya and Navarro-Rosinés

AUSTRIA, Steiermark (=Styria), Ennstaler Alpen, Gesäuseberge east of Admont, north-west-facing slopes of Großer Buchstein, base are of Admonter Frauenmauer, 47°36'55"N, 014°35'30"E, (grid number 8353/4), elevation 1720 m, rock walls of Triassic limestone, on steep rock faces. – 18 June 2005, collected by Josef Hafellner (67596) and Angela Hafellner, determined by Josef Hafellner.

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817. **Caloplaca aurea** (Schaerer) Zahlbruckner

AUSTRIA, Steiermark (=Styria), Ennstaler Alpen, Gesäuseberge east of Admont, south-facing slopes of Hochtor, path from Schneeloch to the summit, 47°33'30"N, 014°37'55"E, (grid number 8453/2), elevation 2050 m, bedded, low calcareous outcrops and fragments of alpine meadows, on earthy substrate in rock crevices. – 24 September 2005, collected and determined by Josef Hafellner (67530).

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818. **Caloplaca crenulatella** (Nylander) Henri Olivier

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, 6.2 km southeast of Saint-Gervais-les-Bains, 2 km southeast of Bionnassay, summit of Mont Vorassay, 45°51'11"N, 006°46'02"E, elevation 2260 m, calcium-rich ouctrops, on horizontal faces of clay shale (near ground). – 20 August 2011, collected by Walter Obermayer (12386), determined by Ulf Arup (2012).

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819. **Caloplaca herbidella** (Hue) Hugo Magnusson

GERMANY, Bayern (=Bavaria), Chiemgauer Alpen, along the road from Reit im Winkl to Ruhpolding, at the lake Weitsee, northern shore where the brook Wappbach flows into the lake, 47°21'10"N, 012°33'20"E, elevation 760 m, mixed forest and *Salix* stands along the shore, on stem bark of *Salix* spec. – 29 August 2009, collected and determined by Josef Hafellner (79588).

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820. **Caloplaca nubigena** (Krempelhuber) Dalla Torre and Sarnthein

AUSTRIA, Steiermark (=Styria), Ennstaler Alpen, Gesäuseberge east of Admont, north-west-facing slopes of Großer Buchstein, base of Admonter Frauenmauer, 47°36'55"N, 014°35'30"E, (grid number 8353/4), elevation 1720 m, rock walls of triassic limestone, on steep rock faces. – 18 June 2005, collected by Josef Hafellner (67597) and Angela Hafellner, determined by Josef Hafellner.

Note: The specimen in GZU shows several thalli of *Caloplaca nubigena* which grow parasitically on *Clauzadea immersa*.

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821. **Caloplaca proteus** Poelt

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 8.2 km southwest of Hermagor, 2.4 km east-northeast of Nassfeldpass, conspicuous rocky ridge in the south-facing slopes of Gartnerkofel, midway between the south saddle and the summit, 46°34'15"N, 013°18'20"E, (grid number 9445/2), elevation 2100 m, alpine meadow with calcareous outcrops (Triassic limestone), on vertical faces of limestone rocks. – 1 September 2007, collected and determined by Josef Hafellner (76907).

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822. **Caloplaca sinapisperma** (Lamarck and Augustin Pyramus DeCandolle) Maheu and Gillet

AUSTRIA, Salzburg, Flachgau Region (=Salzburg-Umgebung District), 4.2 km south-southwest of Sankt Gilgen, 1.5 km south-southeast of Zwölferhorn, Illinger Alm, 47°43' 47"N, 013°20'39"E, (grid number 8246/3), elevation 1243 m, on bryophytes above limestone rocks. – 5 August 2005, collected and determined by Roman Türk (37782) and Barbara Antesberger.

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823. **Caloplaca subpallida** Hugo Magnusson

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm, 4.6 km west of the centre of Weiz, 600 m northeast of Gutenberg, orographically left side of the gorge, 47°12'55"N, 015°34'07"E, (grid number 8759/3), elevation 560 m, siliceous outcrops (schist) in loose mixed forest, on east-exposed inclined rock faces. – 23 August 2009, collected and determined by Josef Hafellner (74735).

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824. **Caloplaca chalybaea** (Fries) Müller Argoviensis

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, 10 km west of Birkfeld, Streberkogel south of Gasen, western end of the summit ridge, 47°21'35"N, 015°34'30"E, (grid number 8659/1), elevation 1440 m, small ouctrops of calcareous schist in a subalpine meadow, on southwest-exposed inclined rock surfaces. – 13 November 2011, collected by Josef Hafellner (79029), determined by Ivan Frolov (21 December 2013).

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issued in the printed version under Caloplaca variabilis, determined by Josef Hafellner

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825. **Candelariella efflorescens** agg. [in the sense of european lichenologists]

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, urban area of Graz, Schubertstraße, 150 m southwest of the pond Hilmteich, 47°04'57"N, 15°27'31"E, (grid number 8958/2), elevation 374 m, on stem bark of *Aesculus hippocastanum* (alley trees). – 4 November 2010, collected and determined by Walter Obermayer (12646).

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826. **Candelariella vitellina** (Hoffmann) Müller Argoviensis

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 7 km south-southwest of Kötschach-Mauthen, 3.4 km east-northeast of Plöckenpass, valley of the brook Angerbach, 500 m west-southwest of Untere Tschintenmuntalm, 46°36'32"N, 012°59'19"E, (grid number 9343/4), elevation 1375 m, small pasture with schistose boulders, on rock. – 18 July 2007, collected and determined by Walter Obermayer (12664).

Note: The specimen in GZU contains - beside the typical orange coloured thallus (= forma *vitellina*) - an island-like patch with the citrine-green chemotype (= forma *flavovirella*).

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827. **Catillaria nigroclavata** (Nylander) Schuler

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 7.4 km east of the centre of Graz, 3.6 km west of the centre of Laßnitzhöhe, Äußere Ragnitz, 47°04'33"N, 15°32'07"E, (grid number 8959/1), elevation 440 m, lumbered trees of *Fraxinus* and *Salix* along a brook, on twigs of *Fraxinus excelsior* (treetop area). – 14 January 2012, collected and determined by Walter Obermayer (12306).

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828. **Cetraria islandica** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Seckauer Tauern, 20 km northwest of the centre of Knittelfeld, Hochreichhart, summit area, 47°21'49"N, 014°40'55"E, (grid number 8654/1), elevation 2410 m, alpine boulder field, on mossy layers in shaded crevices (west-exposed). – 28 August 2012, collected and determined by Walter Obermayer (12496).

Note: All issued specimens separated from one cushion.

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829. **Cetraria sepincola** (Ehrhart) Acharius

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Stubalpe, west of Köflach, Peterer Riegel, upper part of the northwest-facing slopes, 47°02'30"N, 014°50'20"E, (grid number 8955/3), elevation 1860 m, big boulders of garnet mica schist in dwarf-shrub heath (at timberline), on twigs of *Larix decidua*. – 26 May 2005, collected and determined by Josef Hafellner (64924).

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830. **Cetrelia cetrarioides** (Delise ex Duby) William Culberson and Chicita Culberson

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.4 km northeast of the centre of Schladming, 5 km east of the centre of Ramsau, east-facing slopes of Sattelberg, 640 m south of Lodenwalker, 240 m east of Strimitzen, 47°25'26"N, 013°43'12"E, (grid number 8548/3), elevation 980 m, forest glade with single tall trees of *Acer pseudoplatanus* and *Fagus sylvatica* (reforestation area with young conifers), on bark of *Acer pseudoplatanus*. – 23 February 2013, collected and determined by Walter Obermayer (12693).

Note: TLC (all specimens tested): Atranorin, perlatolic acid syndrome. Specimens partly (e.g. in GZU) intermixed with *Cetrelia monachorum* [atranorin, imbricaric acid (major), perlatolic acid (minor)].

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831. **Cetrelia monachorum** (Zahlbruckner) William Culberson and Chicita Culberson

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.5 km north-northeast of the centre of Schladming, 4 km east of the centre of Ramsau, forestry road between the farmsteads Reitbauer and Gabäcker ('Jausenstation Fliegenpilz'), 47°25'40"N, 013°42'27"E, (grid number 8548/3), elevation 1000 m, mixed forest (with *Picea abies, Abies alba, Fagus sylvatica, Acer pseudoplatanus*), on bark of *Fagus sylvatica*. – 21 February 2013, collected and determined by Walter Obermayer (12721).

Note: TLC (all specimens tested): Atranorin, imbricaric acid (major), perlatolic acid (minor). Specimen in GZU with apothecia.

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832. **Cetrelia monachorum** (Zahlbruckner) William Culberson and Chicita Culberson

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.5 km north-northeast of the centre of Schladming, 4 km east of the centre of Ramsau, forestry road between the farmsteads Reitbauer and Gabäcker ('Jausenstation Fliegenpilz'), 47°25'40"N, 013°42'27"E, (grid number 8548/3), elevation 1000 m, mixed forest (with *Picea abies, Abies alba, Fagus sylvatica, Acer pseudoplatanus*), on bark of *Fagus sylvatica*. – 21 February 2013, collected and determined by Walter Obermayer (12732).

Note: TLC (all specimens tested): Atranorin, imbricaric acid (major), perlatolic acid (minor).

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833. **Cetrelia monachorum** (Zahlbruckner) William Culberson and Chicita Culberson

AUSTRIA, Oberösterreich (=Upper Austria), Reichraminger Hintergebirge [part of the National Park Kalkalpen], 27 km south of the centre of Steyr, 400-800 m southeast of Ebenforstalm, northwest-facing slopes between Geißlucke and Alpstein, 47°47'40–55"N, 014°25'25–50"E, (grid number 8252/2), elevation 1100–1300 m, primeval forest-like vegetation with dominant *Fagus sylvatica* (with some intermixed *Picea abies* and *Abies alba*), on bark of fallen *Fagus sylvatica* (partly covered with bryophytes). – 3 August 2013, collected and determined by Walter Obermayer (12907).

Note: TLC (each specimen tested twice): Atranorin (major to traces), imbricaric acid (major), perlatolic acid (minor).

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834. **Chaenotheca chrysocephala** (Turner ex Acharius) Thore Fries

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 3 km northeast of the pass Gaberl, along the path north of the summit of Scherzberg, 47°07'53"N, 014°56'28"E, (grid number 8855/4), elevation 1560 m, subalpine spruce forest, on standing deadwood (snags). – 19 August 2006, collected and determined by Josef Hafellner (66759).

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835. **Chaenotheca cinerea** (Persoon) Tibell

U.S.A., Montana, Flathead County, Lake McDonald, along Snyder Creek, just upstream of a road bridge, 48°36'59"N, 113°52'27"W, elevation 995 m, mixed conifer-hardwood flood-plain forest, on bark of trunks of *Populus balsamifera* (subspecies *trichocarpa*). – 12 April 2001, collected and determined by Toby Spribille (10368).

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836. **Chaenotheca furfuracea** (Linnaeus) Tibell

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 7.4 km east of the centre of Graz, 3.6 km west of the centre of Laßnitzhöhe, Äußere Ragnitz, 47°04'33"N, 15°32'07"E, (grid number 8959/1), elevation 440 m, mixed forest (*Carpinus betulus*, *Fagus sylvatica*, *Picea abies*) along a brook, on very thin, free pendulose roots of *Picea abies* (in an earthy cavern of a NE-facing slope of a brook). – 13 October 2013, collected and determined by Walter Obermayer (13063).

Note: The thalli are partly infected by an unknown, parasitic species of *Micarea*.

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837. **Chaenotheca stemonea** (Acharius) Müller Argoviensis

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.4 km northeast of the centre of Schladming, 5 km east of the centre of Ramsau, east-facing slopes of Sattelberg, 640 m south of Lodenwalker, 240 m east of Strimitzen, 47°25'04"N, 013°43'04"E, (grid number 8548/3), elevation 1020 m, forest area with *Abies alba*, *Picea abies*, *Larix decidua*, *Pinus sylvestris*, *Acer pseudoplatanus*, on bark of *Picea abies* (basal area). – 23 February 2013, collected and determined by Walter Obermayer (13009).

Note: Partly intermixed with *Chaenotheca* cf. *cinerea* (granular-squamulose thallus, stalk pale at the base, upper part with a rather dense white 'pruina').

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838. **Cladonia amaurocraea** (Flörke) Schaerer

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Stubalpe, northeast of Bad Sankt Leonhard, saddle area south of Peterer Riegel, Almhalt, 47°01'45"N, 014°50'50"E, (grid number 8955/3), elevation 1820 m, ouctrops and big boulders in dwarf-shrub heath, on ground. – 16 July 2006, collected by Josef Hafellner (66148) and Lucia Muggia, determined by Josef Hafellner.

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839. **Cladonia caespiticia** (Persoon) Flörke

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, Ameringkogel-Massiv, east of Obdach, valley of the brook Schwarzenbach east of the hamlet Schwarzenbach am Größing, southwest below the hut Griesmoarhütte, 47°05'30"N, 014°45'15"E, (grid number 8954/2), elevation 1140 m, rocky back slope of a forestry road, on earth. – 18 August 2005, collected and determined by Josef Hafellner (65848).

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840. **Cladonia fimbriata** (Linnaeus) Fries

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, southwest of Köflach, northwest of Packsattel, midway between Knödelhütte and Bernsteinhütte, Lahnofen just southeast below the hilltop, 46°59'40"N, 014°55'45"E, (grid number 9055/2), elevation 1510 m, small outcrops and big boulders of mica schist (in loose *Picea abies* and *Larix-decidua*-forest), on duff layer (covering rock boulders). – 10 August 2005, collected and determined by Josef Hafellner (64887).

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841. **Cladonia fimbriata** (Linnaeus) Fries

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 3.7 km northwest of the centre of Ramsau, forestry road from Türlwandhütte to Brandalm, 47°26'47"N, 013°37'14"E, (grid number 8547/4), elevation 1600 m, open *Larix decidua* forest, on southwest-exposed earth slope of the road. – 24 February 2012, collected and determined by Walter Obermayer (12392).

Note: TLC (specimen in GZU tested): Fumarprotocetraric acid (major), protocetraric acid (traces), confumarprotocetraric acid (traces).

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842. **Cladonia sulphurina** (Michaux) Fries

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 7.9 km east-southeast of Obdach, Ameringkogel-Massiv, south-facing ridge of Weißenstein, 0.6 km east of the lodge Weißensteinhütte, north of Melcheben, 47°03'25"N, 014°48'00"E, (grid number 8954/2), elevation 1800 m, subalpine forest with *Picea abies* and *Larix decidua*, on strongly decayed log. – 3 September 2005, collected and determined by Josef Hafellner (65584).

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843. **Cladonia uncialis** (Linnaeus) Weber ex Wiggers subspecies *uncialis*

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, 3.5 km south-southeast above Chamonix, 500 m south of the cable car station at Plan de l'Aiguille, 45°53'48"N, 006°53'14"E, elevation 2300–2350 m, slopes and ridge of a border moraine, alpine vegetation with siliceous boulders, on ground. – 18 August 2011, collected and determined by Walter Obermayer (12388).

Note: TLC (specimen in GZU tested): Usnic acid, rangiformic (major) and norrangiformic (traces) acids, fatty acid (4-5/5-6/6), [no squamatic acid].

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844. **Collema tenax** (Swartz) Acharius variety *vulgare* (Schaerer) Degelius

ITALY, Friuli - Venezia Giulia, comune San Michele al Tagliamento, Bibione, waste land north of the sandy beach, 45°38'29"N, 013°04'13"E, elevation 3 m, on sandy ground. – 16 May 2005, collected and determined by Roman Türk (37549).

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845. **Cyphelium inquinans** (Smith) Trevisan

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Koralpe, 10 km east-southeast of Wolfsberg, uppermost part of the valley of the brook Rassingbach, 1.5 km east of Hipfelhütte, near a waterfall ('Pomswasserfall'), 46°48'25"N, 014°57'55"E, (grid number 9155/4), elevation 1640 m, primeval forest with *Picea abies* on northeast-exposed slope, on stem bark of *Picea abies*. – 8 May 2002, collected by Josef Hafellner (71912), Barbara Emmerer, Harald Kompsch and others, determined by Josef Hafellner.

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846. **Cyphelium inquinans** (Smith) Trevisan

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 7.2 km south-southwest of the railway-station of Kötschach-Mauthen, 3 km east of the pass area of Plöckenpass, valley of the brook Angerbach, 46°36'25-30"N, 012°58'50-59"E, (grid number 9343/4), elevation 1300–1350 m, mixed forest along the brook, on stem bark of *Abies alba*. – 31 August 2007, collected and determined by Walter Obermayer (12665).

Note: TLC (specimen in GZU tested): Placodiolic acid, unknown substance (1/1-2/1), unknown terpenoids.

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847. **Dictyonema glabratum** (Sprengel) David Hawksworth

BRAZIL, São Paulo, Ilha de São Sebastião (Ilha Bela), at the Rua Castelhanor, elevation 50 m, tropical rainforest, (substrate not known). – 6 July 1979, collected by Josef Poelt (no collector number given) and Klaus Kalb, determined by Walter Obermayer (2012).

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848. **Diploschistes muscorum** (Scopoli) Rolf Santesson

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe east of Bad Sankt Leonhard, northwest of Packsattel, 1 km west of the hut Bernsteinütte, conspicuous group of rocks at the timber line, southeast below the ridge with the height notation 1696, 46°59'50"N, 014°54'20"E, (grid number 9055/1), elevation 1630 m, big boulders of mica slate, on bryophytes and raw humus (covering the boulders). – 10 August 2005, collected and determined by Josef Hafellner (41622).

Note: Partly associated with *Lepraria caesioalba* (chemotype I) which has been issued in Lichenotheca Graecensis, number 309 (Obermayer, W. 2007: Lichenotheca Graecensis, Fasc. 16 (Nos 301–320). - Fritschiana (Graz) 60: 1–6.).

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849. **Diplotomma lutosum** Abramo Massalongo

AUSTRIA, Steiermark (=Styria), Mürzsteger Alpen, 6.3 km northwest of Mürzsteg, Proles-Massiv, south below the summit of Kleiner Proles, 47°43'25"N, 015°26'50"E, (grid number 8258/4), elevation 1570 m, low outcrops of Triassic limestone, on calcareous rocks. – 1 August 2008, collected by Josef Hafellner (77124), Lucia Muggia and Angela Hafellner, determined by Josef Hafellner.

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850. **Diplotomma venustum** (Körber) Körber

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, 1.2 km east of Arzberg, Gösser, a bit west of the summit (at the upper edge of the southwest-exposed cliffs), 47°15'00"N, 015°32'05"E, (grid number 8759), elevation 980 m, low limestone ouctrops and single trees, on inclined faces of calcareous rocks. – 4 July 2009, collected and determined by Josef Hafellner (74761).

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

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851. **Enterographa pallidella** (Nylander) Redinger

U.S.A., Hawaii, O'ahu, Waialua, Mokuleia Beach, Degener's garden, 21°35'N, 158°08'W, on dead branch of Coccoloba uvifera (at the beach). – 14 March 1977, collected by Otto Degener (34254; ex herbario Kalb) and Isa Degener, determined by Klaus Kalb.

distributed to: **CANB, GZU, M, NY, UPS, herbarium Kalb**

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852. **Evernia divaricata** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 15 km west of the centre of Deutschlandsberg, Weinebene, 1 km south of the saddle, 46°49'55"N, 015°01' 02"E, (grid number 9156/3), elevation 1650 m, edge of the forest (with *Picea abies* and *Larix decidua*), along the road, on light exposed twigs of *Larix decidua*. – 21 March 2012, collected and determined by Walter Obermayer (12428) [excursion together with Brian Coppins, Josef Hafellner and Helmut Mayrhofer].

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853. **Evernia prunastri** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 3.6 km northwest of the centre of Schladming, 1.9 km south-southwest of the centre of Ramsau, south-facing slopes of Kulmberg, Vorberg, 47°24'25"N, 013°38'38"E, (grid number 8547/4), elevation 1120 m, forest area with *Picea abies*, on stem bark of *Acer pseudoplatanus*. – 20 February 2012, collected and determined by Walter Obermayer (12420).

Note: Specimen in GZU partly with apothecia and partly with unusual laminal, capitate soralia.

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854. **Fellhanera subtilis** (Vězda) Diederich and Sérusiaux

GERMANY, Bayern (=Bavaria), Regen district, 6 km northwest of Zwiesel, northwest of the mountain Hennenkobel, swamp Kiesau, 49°03'03"N, 013°10'30"E, (grid number 6945), elevation 850 m, on twigs of Vaccinium myrtillus. – 18 September 2010, collected and determined by Franz Berger (no collector number given).

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855. **Flavocetraria cucullata** (Bellardi) Kärnefelt and Arne Thell

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 15 km west of Deutschlandsberg, north above the saddle Weinebene, Handalpe, ridge between Handalm and Weberkogel, 46°50'55"N, 015°01'00"E, (grid number 9156/3), elevation 1830 m, dwarf shrub heath (windblown ridge above the timberline), on ground. – 21 March 2012, collected and determined by Walter Obermayer (12438) [excursion together with Brian Coppins, Josef Hafellner and Helmut Mayrhofer].

Note: Specimen in GZU richly fruiting.

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856. **Flavoparmelia caperata** (Linnaeus) Hale

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.6 km north-northwest of the centre of Schladming, Ramsau, 1 km north of the church of Ramsau-Ort, just north of the farmstead Feldlhof, 47°25'39"N, 013°39'09"E, (grid number 8547/4), elevation 1190 m, single trees in meadows (along a gr avel road), on bark of *Acer pseudoplatanus* (near ground). – February 2007, collected and determined by Walter Obermayer (12617).

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857. **Flavoparmelia soredians** (Nylander) Hale

ITALY, Lombardia, provincia di Sondrio, 21 km west-southwest of Bormio, between Grosotto and Grosio, near "Castello Visconti", 46°17'25"N, 010°15'52"E, elevation 650 m, dry slopes, on bryophytes (over rocks). – 1 July 1975, collected and determined by Arthur Buschardt (3934).

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858. **Fulgensia fulgida** (Nylander) Szatala

GREECE, Crete, Nomos Chanion, 35 km southeast of the centre of Chania, 9 km north-northeast of Paleochora, above Strati, 35°18'N, 023°44'E, elevation 800 m, on calcareous boulders (partly covered with soil). – 5 September 1998, collected by Ulli Trinkaus and Martin Grube (no collector number given), determined by Thomas Kasalicky (1998).

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859. **Fuscopannaria praetermissa** (Nylander) Per Magnus Jørgensen

AUSTRIA, Salzburg, Pinzgau Region (=Zell am See District), Hohe Tauern, 14 km south-west of Mittersill, Habachtal, path from Moaralm to Thüringer Hütte, 47°11'13"N, 012°21' 10"E, (grid number 8840/1), elevation 1470 m, on bryophytes (above calcareous mica schist). – 30 June 2012, collected and determined by Roman Türk (51042).

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860. **Graphis scripta** (taxon complex)

AUSTRIA, Steiermark (=Styria), Totes Gebirge, 8.3 km east-northeast of the centre of Bad Aussee, close to the southern shore of the lake Grundlsee, Wienern, near the brook Arzbergbach, 47°37'46"N, 013°53'30"E, (grid number 8349/3), elevation 725 m, trees along the brook, on bark of *Fraxinus excelsior* (covered with bryophytes). – 21 September 2013, collected and determined by Walter Obermayer (13013).

Note: The issued material partly conists of a m ixture of thalli belonging to different geno-/ morphotypes. *Graphis scripta* in the strict sense, *G. betulina*, *G. macrocarpa*, and *G. pulverulenta* have recently been separated at species level (see Neuwirth, G. and Aptroot, A. 2011: Recognition of four morphologically distinct species in the *Graphis scripta* complex in Europe. - Herzogia 24: 207–230).

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861. **Graphis scripta** (taxon complex)

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 7.4 km east of the centre of Graz, 3.6 km west of the centre of Laßnitzhöhe, Äußere Ragnitz, 47°04'33"N, 15°32'07"E, (grid number 8959/1), elevation 440 m, mixed forest (with *Carpinus betulus Fagus sylvatica*, *Picea abies*) along a brook, on upper surface of horizontally growing twig of *Carpinus betulus* (strongly shadowed). – 13 October 2013, collected and determined by Walter Obermayer (13062).

Note: Part of the specimen (e.g. in GZU) shows black pycnidia which are pale at the base. The colourless pycnospores (5 x 2 µm) are narrowly ellipsoid but not rod-shaped (the latter is mentioned for species of Graphis).

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862. **Gyalecta friesii** (Abramo Massalongo) Körber

CANADA, British Columbia, Selkirk Mountains, Incomappleux River drainage, west bank of the river downstream of the confluence with Battle Brook, 50°59'23"N, 117°35'13"W, elevation 605 m, *Thuja plicata* forest with very large trees, on detritus. – 23 August 2003, collected by Toby Spribille (12701-B) and Craig Pettitt, determined by Toby Spribille.

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863. **Hypogymnia physodes** (Linnaeus) Nylander

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 3.7 km northwest of the centre of Ramsau, forestry road from Türlwandhütte to Brandalm, 150 m northeast of Brandalm, 47°26'40"N, 013°37'05"E, (grid number 8547/4), elevation 1560 m, open *Larix decidua* forest, on stem bark (and twigs) of *Larix decidua*. – 24 February 2012, collected and determined by Walter Obermayer (12419).

Note: Partly intermixed with *Parmelia sulcata* and *Pseudevernia furfuracea*.

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864. **Hypogymnia wilfiana** Goward, Toby Spribille and Ahti

CANADA, British Columbia, Central Interior, Upper Clearwater valley, Trophy Mountains, third canyon, above Upper Clearwater road, 51°47.226'N, 120°00.558'W, elevation 827 m, mixed montane conifer forest, on branches and twigs of Pseudotsuga menziesii. – 20 October 2009, collected and determined by Toby Spribille (33452).

Note: Other taxa of *Hypogymnia* may be admixed.

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865. **Hypotrachyna imbricatula** (Zahlbruckner) Hale

COSTA RICA, Puntarenas, 4 km SSE of San Vito, Fila Cruces Ridge, surroundings of 'Las Cruces Tropical Botanical Garden', 08°47'N, 082°57'W, elevation 1300 m, premontane zone of the rainforest, on (substrate not known). – 31 December 1978, collected by Klaus Kalb (21063) and G. Plöbst, determined by Harry Sipman (2004).

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866. **Hypotrachyna livida** (Taylor) Hale

BRAZIL, Minas Gerais, Serra da Mantiqueira, 18 km southeast of Camanducaia, above Vila Monte Verde, 22°52'S, 46°02'W, elevation 1800 m, mountain rainforest (disturbed vegetation), on bark of trees. – 3 July 1979, collected by Klaus Kalb (21095), determined by Harrie Sipman.

Note: TLC (Sipman and Elix): Atranorin, colensoic acid, probably hydroxycolensoic acid, unknown substances).

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867. **Hypotrachyna physcioides** (Nylander) Hale

BRAZIL, Mato Grosso, Serra dos Coroados, 10 km northeast of Chapada dos Guimarães, 15°26'S, 55°49'W, elevation 680 m, submontane rain forest, on bark of tree. – 9 July 1980, collected by Klaus Kalb (21099), determined by Harrie Sipman (2000).

Note: TLC (Sipman and Elix): Atranorin, barbatic acid, obtusatic acid, 4-O-demethylbarbatic acid, norobtusatic acid.

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868. **Hypotrachyna pulvinata** (Feé) Hale

ECUADOR, Cotopaxi, Cotopaxi National Park, at the base of the mountain Cotopaxi, between Pedregal and the tableland, 30°40'S, 78°30'W, elevation 3250 m, on bark of a tree. – 12 August 1987, collected by Klaus Kalb (19113), determined by Harrie Sipman.

Note: TLC (Sipman and Elix): Atranorin, evernic acid, lecanoric acid.

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869. **Hypotrachyna rockii** (Zahlbruckner) Hale

GUATEMALA, El Quiché, 15 r oad kilometres south of Chichicastenango, along the national road number 15, 14°53'N, 91°07'W, elevation 2400 m, shady and dry forest with *Pinus* and *Quercus*, (substrate not known). – 15 January 1979, collected by Klaus Kalb (21060) and G. Plöbst, determined by Harrie Sipman (2004).

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870. **Icmadophila ericetorum** (Linnaeus) Zahlbruckner

AUSTRIA, Steiermark (=Styria), Totes Gebirge, 8.3 km east-northeast of the centre of Bad Aussee, path from Gößl (eastern shore of the lake Grundlsee) along the brook Toplitzbach to the lake Toplitzsee, 47°38'27"N, 013°54'38"E, (grid number 8349/3), elevation 720 m, forest area (with *Acer pseudoplatanus*, *Abies alba*, *Picea abies*, and *Fraxinus excelsior*) along the brook, on vertical faces of a strongly decayed stump. – 22 September 2013, collected and determined by Walter Obermayer (13012).

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871. **Lecanographa dilleniana** (Acharius) Hafellner and Obermayer combinatio nova

[MycoBank No.: MB 807169]

Basionym: *Lichen dillenianus* Acharius, Lichenographiae Sueciae Prodromus: 57 (1798); Synonym: *Lecanactis dilleniana* (Acharius) Körber

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, Rappoldkogel north-east above Hirschegger Sattel, west side of the summit, 47°05'00"N, 014°53'00"E, (grid number 8955/1), elevation 1920 m, cliffy rocks and big boulders of mica schist, on west-exposed, inclined rock faces. – 10 August 2003, collected and determined by Josef Hafellner (65487).

Note: Applying the generic concept of *Lecanactis*-like arthonialean lichens as elaborated by Egea and Torrente, Bibliotheca Lichenologica 54 (1994), this peculiar species is best classified in *Lecanographa*.

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872. **Lecanora agardhiana** Acharius subspecies *sapaudica* Clauzade and Claude Roux

AUSTRIA, Oberösterreich (=Upper Austria), Ennstaler Alpen, Bosruck-Massiv, east of Pyhrnpass, Lahnerkogel, summit area, 47°37'10"N, 014°19'55"E, (grid number 8351/4), elevation 1850 m, low calcareous outcrops inbetween loose stands of *Pinus mugo*, on south exposed low limestone outcrops. – 23 September 2006, collected by Josef Hafellner (67623) and Lucia Muggia, determined by Josef Hafellner.

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873. **Lecanora argentata** Nylander [in the broad sense]

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, 1.2 km south-southwest of Semriach, side gorge of Kesselfallklamm, 47°12'17"N, 015°23'53"E, (grid number 8758/3), elevation 630 m, gorge area with limestone rocks, shady and wet conditions, on bark of *Carpinus betulus* (windthrown). – 5 December 2011, collected by Walter Obermayer (12288), determined by Jiří Malíček (2013).

Note: The material was determined by Jiří Malíček as *Lecanora argentata* (including *L. subrugosa*). The strongly crenulated margins of the apothecia refer to *L. subrugosa*, the very thin walls of the spores (less than 0.8 µm) refer to *L. argentata* s.str.

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874. **Lecanora bicincta** Ramond

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Stubalpe, 8 km north-northeast of Bad Sankt Leonhard, Peterer Kogel, south side of the summit, 47°01'55"N, 014°49'35"E, (grid number 8954/4), elevation 1840 m, small boulders and outcrops of amphibolite (in dwarf-shrub heath), on inclined faces of small rocks (close to the ground). – 25 May 2005, collected and determined by Josef Hafellner (64965).

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875. **Lecanora carpinea** (Linnaeus) Vainio

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Schöckl, 2 km north of Sankt Radegund, parking site along the road to Schöcklkreuz, 30 m northeast of the tavern Schöcklbartl, 47°11'54"N, 015°29'00"E, (grid number 8858/2), elevation 1030 m, S-exposed downslope of a road, on stem bark of young Sorbus aucuparia. – 5 August 2012, collected and determined by Walter Obermayer (12474).

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876. **Lecanora pulicaris** (Persoon) Acharius

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 15 km west of the centre of Deutschlandsberg, Weinebene, 1 km south of the saddle, 46°49'55"N, 015°01' 02"E, (grid number 9156/3), elevation 1650 m, edge of the forest (with *Picea abies* and *Larix decidua*), along the road, on light exposed twigs of *Larix decidua*. – 21 March 2012, collected and determined by Walter Obermayer (12441) [excursion together with Brian Coppins, Josef Hafellner and Helmut Mayrhofer].

Note: Apothecia with margins reacting Pd+ yellowish (atranorin only) and Pd+ reddish (atranorin and fumarprotocetraric acid) grow side by side. Partly associated species: *Evernia divaricata, Hypogymnia physodes, H. tubulosa, Melanohalea exasperatula, Pseudevernia furfuracea* variety *ceratea* and variety *furfuracea.*

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877. **Lecidea confluens** (Weber) Acharius

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 15 km west-southwest of Hermagor, Hochwipfel, 46°35'43"N, 013°10'40"E, (grid number 9445/1), elevation 2130 m, alpine meadows and loose dwarf scrub communities with outcrops of paleozoic, siliceous schist, on inclined rock surfaces. – 2 September 2007, collected and determined by Walter Obermayer (12336) [excursion together with Josef Hafellner].

Note: All five issued specimens originate from one big thallus. TLC (specimen in GZU tested): Confluentic acid (major), 2'-O-methylperlatolic acid (minor), 2'-O-methylmicrophyllinic acid (minor).

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878. **Lecidea nylanderi** (Anzi) Thore Fries

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.5 km north-northeast of the centre of Schladming, 4 km east of the centre of Ramsau, forestry road between the farmsteads Reitbauer and Gabäcker ('Jausenstation Fliegenpilz'), 47°25'40"N, 013°42'27"E, (grid number 8548/3), elevation 1000 m, mixed forest (with *Picea abies*, *Abies alba*, *Fagus sylvatica*, and *Acer pseudoplatanus*), on bark of one individual of *Picea abies*. – 21 February 2013, collected and determined by Walter Obermayer (12729).

Note: TLC: Divaricatic acid (specimen in GZU tested).

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879. **Lecidella elaeochroma** (Acharius) Maurice Choisy [in the broad sense]

GERMANY, Bayern (=Bavaria), Schwaben, Ammergauer Alpen, 6 k m southeast of Schwangau, near Bleckenau, 47°32'N, 010°46'E, elevation 1370 m, on bark of single *Acer pseudoplatanus*. – 28 August 1968, collected by Adolf Schröppel (no collector number given), determined by Walter Obermayer (2013).

Note: Most of the issued material consists of two morpho-/chemotypes of *Lecidella elaeochroma*, one type with a pale brownish thallus (K+ brownish to sligthly red) and big apothecia, the second type with a whitish (to slightly yellowish) thallus (K- or slightly yellowish) and small apothecia. The issued material is partly (e.g. in GZU) intermixed with *Rinodina trevisanii* (determined by Helmut Mayrhofer, 2013).

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880. **Lecidoma demissum** (Rutström) Gotthard Schneider and Hertel

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 15 km west-southwest of Hermagor, Hochwipfel, 46°35'43"N, 013°10'40"E, (grid number 9445/1), elevation 2130 m, alpine meadows and loose dwarf scrub communities with outcrops of paleozoic, siliceous schist, on ground. – 2 September 2007, collected and determined by Walter Obermayer (12339) [excursion together with Josef Hafellner].

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881. **Lecidoma demissum** (Rutström) Gotthard Schneider and Hertel

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 11 km southeast of the centre of Wolfsberg, Großes Kar, foot area of northeast-facing slopes of Großer Speikkogel, 480 m north of the radar station, 46°47'30"N, 014°58'15"E, (grid number 9255/2), elevation 1980 m, siliceous boulders (inbetween a *Pinus mugo* stand), on duff layer. – 22 June 2008, collected by Josef Hafellner (71173), Lucia Muggia and A ngela Hafellner, determined by Josef Hafellner.

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882. **Lepraria alpina** (de Lesdain) Tretiach and Baruffo
[chemotype 1]

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, 3.5 km south-southeast above Chamonix, 500 m south of the cable car station at Plan de l'Aiguille, 45°53'48"N, 006°53'14"E, elevation 2300–2350 m, slopes and ridge of a border moraine, alpine vegetation with siliceous boulders, on flat ground. – 18 August 2011, collected and determined by Walter Obermayer (12360).

Note: TLC (all specimens tested): Atranorin, porphyrillic acid, roccellic acid.

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883. **Lepraria caesioalba** (de Lesdain) Jack Rodney Laundon
[chemotype 1a]

ITALY, Piemonte, Prov.Torino, Alpi Cozie, mountains west of Pinerolo, northeastern slopes and ridges of Punta Caláncia, south above the village Perero, 44°53'00"N, 007°07'20"E, elevation 2350 m, boulders and cliffs of siliceous rocks, on plant remnants (above soil). – 26 July 2001, collected by Josef Hafellner (69436), determined by Walter Obermayer.

Note: TLC (all specimens tested): Atranorin (major) fumarprotocetraric acid (minor), rangiformic acid (major), norrangiformic acid (traces), angardianic acid (minor). Traces of stictic acid and zeorin were partly present but could be caused by contamination.

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884. **Lepraria cf. caesioalba** (de Lesdain) Jack Rodney Laundon
[chemotype 1b]

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Aravis Range, 5.3 km northwest of the centre of Sallanches, 400 m west-southwest above Chalets de Doran, 45°58'02"N, 006°35'00"E, elevation 1530–1560 m, scattered boulders and low outcrops of limestone and calcareous schist in alpine pasture, on bryophytes (on east-exposed, strongly inclined calcareous schist). – 17 August 2011, collected by Walter Obermayer (12357), determined by Martin Kukwa (February 2012).

Note: TLC (specimen in GZU, CANB, and UPS tested): Atranorin (major), rangiformic acid (major), norrangiformic acid (traces), fumarprotocetraric acid (minor), protocetraric acid (traces). - As the morphology is quite different from a typical *Lepraria caesioalba* (compared with samples from non-calcareous substrate) the present material might belong to an undescribed species (Martin Kukwa, personal communication).

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885. **Lepraria elobata** Tønsberg

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, 10.6 km northeast of the centre of Sallanches, 1.6 km northeast of the cable car station of Les Grandes Platières, west-facing slopes of Tête Pelouse, 45°59'51"N, 006°43'55"E, elevation 2370 m, on northwest-exposed, small, earthy (overhanging) slope of a road. – 19 August 2011, collected and determined by Walter Obermayer (12370).

Note: TLC (specimen in GZU and CANB tested): Atranorin (major), stictic acid (major), constictic acid (major), zeorin (major), menegazziaic acid (traces), cryptostictic acid (traces), several fatty acids (minor/traces).

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886. **Lepraria granulata** Slaviková

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 15 km west-southwest of Hermagor, Hochwipfel, 46°35'43"N, 013°10'40"E, (grid number 9445/1), elevation 2130 m, alpine meadows and loose dwarf scrub communities with outcrops of paleozoic, siliceous schist, on rock surfaces (strongly inclined). – 2 September 2007, collected and determined by Walter Obermayer (12338) [excursion together with Josef Hafellner].

Note: TLC (all specimens tested): Atranorin, fatty acid G1 (major), fatty acid G2 (traces). Anthraquinones (in substrate hyphae): A1 (5-6/6/5-6; major), A2 (7/?5-6/6-7; major) A3 (4-5/1/1-2; minor), A4 (below A1 in C; traces). Anthrachinones A2 and A3 detected in the GZU specimen only.

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887. **Lepraria neglecta** (Nylander) Erichsen

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, 3.5 km south-southeast above Chamonix, 500 m south of the cable car station at Plan de l'Aiguille, 45°53'48"N, 006°53'14"E, elevation 2300–2350 m, slopes and ridge of a border moraine, alpine vegetation with siliceous boulders, on bryophytes (over rockoutcrops). – 18 August 2011, collected and determined by Walter Obermayer (12364).

Note: *Lepraria neglecta* (C+red) is present on all 5 specimens (TLC: alectorialic acid, roccellic/angardianic acid). The issued material is partly intermixed with (or dominated by) the following chemotaxa of the *Lepraria neglecta* group (all of them C-): *Lepraria alpina*, chemotype 1 (atranorin, porphyrillic acid, roccellic/angardianic acid), *L. alpina*, chemotype 2 (atranorin, porphyrillic acid, rangiformic acid [?]), *L. caesioalba*, chemotype 1 (atranorin, fumarprotocetraric acid, roccellic/angardianic acid), *L. caesioalba*, chemotype 2 (atranorin, stictic acid complex, roccellic/angardianic acid), *L. granulata* (atranorin, fatty acid G1, fatty acid G2, anthraquinones in substrate hyphae, unknowns).

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888. **Lepraria vouauxii** (Hue) Richard Harris

[Synonym: *Leproloma vouauxii*]

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, 6.2 km southeast of Saint-Gervais-les-Bains, 2 km east-southeast of Bionnassay, 45°51' 44–52"N, 006°46'25–50"E, elevation 1500–1700 m, mixed forest with dominant *Picea abies*, on schistose rock walls (overhanging faces, strongly shadowed). – 20 August 2011, collected and determined by Walter Obermayer (12384).

Note: TLC (specimen in GZU tested): Pannaric acid 6-methylester (major), 4-oxypannaric acid 6-methylester (major), unknown UV-white substance (3[-4]/2[-3]/3).

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889. **Lepraria vouauxii** (Hue) Richard Harris

[Synonym: *Leproloma vouauxii*]

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, 6.2 km southeast of Saint-Gervais-les-Bains, 2 km east-southeast of Bionnassay, 45°51' 44–52"N, 006°46'25–50"E, elevation 1500–1700 m, mixed forest with dominant *Picea abies*, on vertical faces of strongly shadowed, schistose rock walls (partly on bryophytes). – 20 August 2011, collected and determined by Walter Obermayer (12293).

Note: TLC (specimen in GZU tested): Pannaric acid 6-methylester and related dibenzofurans, unknown (5/?/4-5). Specimen in GZU infected with *Arthonia excentrica* (determined by Josef Hafellner).

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890. **Leptogium saturninum** (Dickson) Nylander

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.6 km north-northwest of the centre of Schladming, Ramsau, 1 km north of the church of Ramsau-Ort, just north of the farmstead Feldlhof, 47°25'39"N, 013°39'09"E, (grid number 8547/4), elevation 1190 m, single trees in meadows (along a gr avel road), on bark of *Acer pseudoplatanus* (near ground). – February 2007, collected and determined by Walter Obermayer (12594).

Note: Partly with branched, shrub-(to tree-)like isidiate structures on the upper surface.

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891. **Letharia vulpina** (Linnaeus) Hue

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 3.7 km northwest of the centre of Ramsau, forestry road from Türlwandhütte to Brandalm, 150 m northeast of Brandalm, 47°26'40"N, 013°37'05"E, (grid number 8547/4), elevation 1560 m, open *Larix decidua* forest, on stem bark of *Larix decidua*. – 24 February 2012, collected and determined by Walter Obermayer (12418).

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892. **Lobarina scrobiculata** (Scopoli) Nylander ex Crombie

AUSTRIA, Steiermark (=Styria), Totes Gebirge, 10 km east-northeast of the centre of Bad Aussee, east of the lake Grundlsee, Gößlwiesen south of the village Gößl, path to the spring of the brook Stimitz, at the orographically right side of the brook, 47°37'58"N, 013°54'48"E, (grid number 8349/2), elevation 740 m, single deciduous trees on a cattle pasture, on bark of *Acer pseudoplatanus*. – 15 April 2009, collected by Simin Payandeh and Roya Payandeh (no collector number given; ex herbario Hafellner 41687), determined by Josef Hafellner.

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893. **Loxospora elatina** (Acharius) Abramo Massalongo

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.4 km northeast of the centre of Schladming, 5 km east of the centre of Ramsau, east-facing slopes of Sattelberg, 640 m south of Lodenwalker, 240 m east of Strimitzen, 47°25'04"N, 013°43'04"E, (grid number 8548/3), elevation 1020 m, forest area with *Abies alba*, *Picea abies*, *Larix decidua*, *Pinus sylvestris*, *Acer pseudoplatanus*, on bark of *Abies alba*. – 23 February 2013, collected and determined by Walter Obermayer (12719).

Note: TLC (specimen in GZU tested): Thamnolic acid, elatinic acid, unknown.

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894. **Megalospora pachycarpa** (Delise ex Duby) Henri Olivier

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.4 km northeast of the centre of Schladming, 5 km east of the centre of Ramsau, east-facing slopes of Sattelberg, 640 m south of Lodenwalker, 240 m east of Strimitzen, 47°25'26"N, 013°43'12"E, (grid number 8548/3), elevation 980 m, forest glade with single tall trees of *Acer pseudoplatanus* and *Fagus sylvatica* (reforestation area with young conifers), on bark of *Acer pseudoplatanus*. – 23 February 2013, collected and determined by Walter Obermayer (12694).

Note: TLC: Usnic acid, zeorin. *Lepraria leuckertiana* has the same chemistry but shows a cottony appearance with a well developed white medulla, which is absent in the present material.

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895. **Melanelixia glabra** (Schaerer) Oscar Blanco and others

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.4 km north-northwest of Schladming, Ramsau, 0.5 km north of the church of Ramsau-Ort, 47°25'40"N, 013°39'00"E, (grid number 8547/4), elevation 1180 m, roadside trees in open meadows, on bark of *Acer pseudoplatanus*. – 19 February 2007, collected and determined by Walter Obermayer (12334).

Note: The specimen in GZU is infected with *Abrothallus bertianus* (black, globose, epruinose ascomata with brown, 2-celled spores, 15 x 5 µm; determined by Josef Hafellner).

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896. **Melanohalea exasperatula** (Nylander) Oscar Blanco and others

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.1 km northwest of the centre of Ramsau, near Türlwandhütte, 47°26'58"N, 013°36'50"E, (grid number 8547/4), elevation 1650 m, open *Larix decidua* forest, on twigs of *Larix decidua*. – 24 February 2012, collected and determined by Walter Obermayer (12393).

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897. **Menegazzia terebrata** (Hoffmann) Abramo Massalongo

AUSTRIA, Steiermark (=Styria), Totes Gebirge, 8.3 km east-northeast of the centre of Bad Aussee, path from Gößl (eastern shore of the lake Grundlsee) along the brook Toplitzbach to the lake Toplitzsee, 47°38'27"N, 013°54'38"E, (grid number 8349/3), elevation 720 m, forest area (with *Acer pseudoplatanus*, *Abies alba*, *Picea abies*, and *Fraxinus excelsior*) along the brook, on bark of *Acer pseudoplatanus*. – 22 September 2013, collected and determined by Walter Obermayer (13011).

Note: Some thalli of the issued specimens host the lichenicolous fungus *Briancoppinsia cytospora* (determined by Josef Hafellner), of which a separate specimen is stored in GZU. The conidiomata are developed in nonsorediate parts of thallus as well as in soralia.

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898. **Micarea lignaria** (Acharius) Hedlund

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Stubalpe, east of Bad Sankt Leonhard, west-facing slopes northeast above Görlitzer Alm, Kollmannsöfen, near Schieflinger Kreuz, 47°00'25"N, 014°52'55"E, (grid number 8955/3), elevation 1745 m, outcrops and boulders of mica slate (in dwarf-shrub heath), on bryophytes and plant remnants. – 12 June 2005, collected and determined by Josef Hafellner (65085).

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899. **Micarea peliocarpa** (Anzi) Coppins [in the broad sense]

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 7.2 km south-southwest of the railway station of Kötschach-Mauthen, 3 km east of the pass area of Plöckenpass, valley of the brook Angerbach, 46°36'25-30"N, 012°58'50-59"E, (grid number 9343/4), elevation 1300–1350 m, mixed forest along the brook, on rotten wood. – 31 August 2007, collected and determined by Walter Obermayer (12666).

Note: Mature apothecia mostly whitish to slightly creamy yellowish (→ *Micarea alabastrites*), rather old apothecia partly darker coloured (→ *M. peliocarpa* in the strict sense); thallus and sections of apothecia C+ red, ascus apex in Lugol without a ring structure, spores 4-celled, straight to slightly curved, 16-19 x 4-5 µm.

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900. **Miriquidica garovaglii** (Schaerer) Hertel and Rambold

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 15 km west-southwest of Hermagor, Hochwipfel, 46°35'43"N, 013°10'40"E, (grid number 9445/1), elevation 2130 m, alpine meadows and loose dwarf scrub communities with outcrops of paleozoic, siliceous schist, on east-exposed, vertical rock surfaces. – 2 September 2007, collected and determined by Walter Obermayer (12335) [excursion together with Josef Hafellner].

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901. **Multiclavula mucida** (Fries) Ronald Petersen

AUSTRIA, Oberösterreich (=Upper Austria), Reichraminger Hintergebirge [part of National Park Kalkalpen], 16 km west of the centre of Weyer, Zöbelboden, summit area of Stefflkogel, 47°50'47"N, 014°26'38"E, (grid number 8152/4), elevation 890 m, on rotten wood of *Fagus sylvatica*. – 11 September 2010, collected by Roman Türk (47218) and Wolfgang Mayer, determined by Roman Türk.

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902. **Mycobilimbia violascens** (Kalb and Vězda) Kalb

U.S.A., Hawaii, O'ahu, Keawaula valley, dry thicket along the coast, 21°33'N, 158°14'W, on living trunks of exotic Leucaena. – 16 March 1977, collected by Otto Degener (34257; ex herbario Kalb) and Isa Degener, determined by Klaus Kalb.

Note: Partly associated with *Amandinea multispora*.

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903. **Mycoblastus affinis** (Schaerer) Thomas Schauer

CZECH REPUBLIC, South Bohemia, Šumavce mountains, 4.2 km west-northwest of Nová Pec, Jezerní luk, 48°47.30'N, 013°52.40'E, elevation 920 m, woody raised bog with *Pinus* × *pseudopumilio*, *P.* cf. *uncinata*, *Picea abies*, and *Betula* cf. *carpatica* (surrounded by a wet spruce forest), on bark and wood of *Pinus* cf. *uncinata*, *Picea abies*, and *Betula* cf. *carpatica*. – 18 October 2009, collected by Zdeněk Palice (no collector number given) and Christian Printzen, determined by Toby Spribille (2010).

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904. **Mycocalicium subtile** (Persoon) Szatala

AUSTRIA, Oberösterreich (=Upper Austria), Reichraminger Hintergebirge [part of National Park Kalkalpen], 9.3 km northeast of the centre of Windischgarsten, Langmoos, northeast-facing slopes of Großer Größtenberg, 47°45'45"N, 014°26'27"E, (grid number 8252/2), elevation 1190 m, on rotten wood of *Picea abies*. – 14 August 2007, collected by Roman Türk (44790) and Wolfgang Mayer, determined by Roman Türk.

Note: Partly intermixed with *Biatora turgidula*, which has been issued as number 322 in Obermayer, Walter 2009: Lichenotheca Graecensis, Fasc. 17 (Nos 321–340). - Fritschiana (Graz) 65: 1–6.

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905. **Nephroma laevigatum** Acharius [not in the sense of other authors]

ALBANIA, Qarku i Tiranës (County of Tirana), 10 km east-northeast of the centre of Tirana, Mount Dajt, between the restaurant "Panorama" and the saddle Qafa e Qershisë, 41°22'15"N, 019°55'20"E, elevation 1100 m, deciduous forest over limestone on a west-exposed slope, on bark of Acer opalus. – 20 August 2007, collected and determined by Josef Hafellner (71109) [excursion together with Mauro Tretiach, Lucia Muggia, Massimo Piccoto and Jani Marka].

Note: The yellowish-orange medulla reacts KOH+ immediately deep red.

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906. **Nephroma resupinatum** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Ennstaler Alpen, Gesäuseberge east of Admont, trail from Johnsbach to Hess-Hütte, short west of Untere Koderalm, 47°32'40"N, 014°37'35"E, (grid number 8453/4), elevation 1250 m, mixed forest, on bark of *Acer pseudoplatanus*. – 25 September 2005, collected and determined by Josef Hafellner (67500).

distributed to: **CANB, E, GZU, M, NY, UPS**

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907. **Normandina pulchella** (Borrer) Nylander

AUSTRIA, Oberösterreich (=Upper Austria), Reichraminger Hintergebirge [part of the National Park Kalkalpen], 27 km south of the centre of Steyr, 400-800 m southeast of Ebenforstalm, northwest-facing slopes between Geißlucke and Alpstein, 47°47'40–55"N, 014°25'25–50"E, (grid number 8252/2), elevation 1100–1300 m, primeval-forest-like vegetation with dominant *Fagus sylvatica* (with some intermixed *Picea abies* and *Abies alba*), on bark of *Fagus sylvatica* (covered with bryophytes). – 3 August 2013, collected and determined by Walter Obermayer (12906).

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908. **Ocellularia melanostoma** (Krempelhuber) Kalb

BRAZIL, São Paulo, 65 km west of São Sebastião, along Rio Guaratuba, between São Lourenço and Juquií, 23°47'S, 45°55'W, elevation 1 m, mangrove, on bark of Laguncularia racemosa. – 19 February 1980, collected and determined by Klaus Kalb (31646).

Note: TLC (Kalb): Hypoprotocetraric acid, 4-O-demthylnotatic acid.

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909. **Opegrapha viridis** (Persoon ex Acharius) Behlen and Desberger

[Synonym: *Zwackhia viridis*]

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm (northwest of Weiz), orographically right side of the river Raab, 700 m west of Haselbach, near the footbridge ('Haselbachsteg'), 47°14'10"N, 015°33'25"E, (grid number 8759/3), elevation 540 m, remnants of a floodplain forest, on bark of *Fraxinus excelsior*. – 11 October 2009, collected and determined by Josef Hafellner (74458).

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910. **Pannaria conoplea** (Acharius) Bory

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 9.2 km northwest of Eibiswald, 1.7 km east-northeast of the church of Sankt Katharina in der Wiel, south-southeast of the farmhouse Hohl, summit area of a small hilltop, 46°43'55"N, 015°08'50"E, (grid number 9256/4), elevation 820 m, low outcrops of eclogite in a loose mixed forest, dominated by *Pinus sylvestris*, on standing deadwood (snags). – 28 November 2009, collected and determined by Josef Hafellner (75047).

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911. **Parmelia sulcata** Taylor

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 7.4 km east of the centre of Graz, 3.6 km west of the centre of Laßnitzhöhe, Äußere Ragnitz, 47°04'33"N, 15°32'07"E, (grid number 8959/1), elevation 440 m, lumbered trees of Fraxinus and *Salix* along a brook, on twigs of *Fraxinus excelsior* (treetop area). – 14 January 2012, collected and determined by Walter Obermayer (12307).

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912. **Parmotrema mellissii** (Carroll William Dodge) Hale

URUGUAY, Lavalleja, 17.5 km north of Cerro de las Animas, Abra de Cotto, 34°45'S, 55° 19'W, top of a hill, on wooden fence post. – 12 October 1969, collected by Hector Osorio (6456), seen by Mason Hale (1973).

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913. **Parmotrema perlatum** (Hudson) Maurice Choisy

MONTENEGRO, 30 km north-northeast of the centre of Podgorica, Morača canyon, 7.5 km (air-line distance) south of the Morača monastery, small side road to the W, 42° 42.060'N, 019°22.476'E, elevation 210 m, on twigs of *Carpinus orientalis*. – 16 June 2011, collected and determined by Helmut Mayrhofer (19205).

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914. **Parmotrema tinctorum** (Nylander) Hale

ARGENTINA, Misiones, 26 km northeast of San Ignacio, near Gisela, 27°03'S, 55°22'W, elevation 170 m, on trunk and branches of Meliaceae (locally abundant). – 16 March 1953, collected by J.E. Montes (36A; ex herbario Osorio 3352), determined by Hector Osorio (1957).

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915. **Peltigera collina** (Acharius) Schrader

AUSTRIA, Steiermark (=Styria), Totes Gebirge, 8.3 km east-northeast of the centre of Bad Aussee, path from Gößl (eastern shore of the lake Grundlsee) along the brook Toplitzbach to the lake Toplitzsee, 47°38'27"N, 013°54'38"E, (grid number 8349/3), elevation 720 m, forest area (with *Acer pseudoplatanus*, *Abies alba*, *Picea abies*, and *Fraxinus excelsior*) along the brook, on bark of *Acer pseudoplatanus* (amongst bryophytes). – 22 September 2013, collected and determined by Walter Obermayer (13014).

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916. **Peltigera degenii** Gyelnik

AUSTRIA, Steiermark (=Styria), Ennstaler Alpen, 9 km southwest of Hieflau, southeast facing slopes of Haselkogel, path from Radmer an der Hasel via Gspitzter Stein to Haselkar, 47°32'00"N, 014°42'35"E, (grid number 8454/3), elevation 1100 m, mixed forest with *Fagus sylvatica* and *Picea abies* (with limestone boulders), on bryophytes and plant remnants (covering limestone rocks). – 3 July 2005, collected and determined by Josef Hafellner (67915).

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917. **Peltigera horizontalis** (Hudson) Baumgarten

AUSTRIA, Oberösterreich (=Upper Austria), Reichraminger Hintergebirge [part of the National Park Kalkalpen], 27 km south of the centre of Steyr, 400-800 m southeast of Ebenforstalm, northwest-facing slopes between Geißlucke and Alpstein, 47°47'40-55"N, 014°25'25-50"E, (grid number 8252/2), elevation 1100–1300 m, primeval-forest-like vegetation with mainly *Fagus sylvatica* (with some intermixed *Picea abies* and *Abies alba*), on base of *Picea abies* (strongly shaded conditions). – 3 August 2013, collected and determined by Walter Obermayer (13010).

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918. **Peltigera neckeri** Hepp ex Müller Argoviensis

ARMENIA, Wajoz Dsor (Vayots' Dzor) province, area about 13 km east-southeast of Vayk, 1.4 km southwest of the village Artavan, 39°39'06"N, 45°36'20"E, elevation 1940 m, edge of a forest along a rivulet, on bryophytes and plant debris. – 18 June 2009, collected by M. Oganesian, H. Ter-Voskanyan, K. Kugler and E. Vitek (no collector number given), determined by Orvo Vitikainen (2011; examined specimen in GZU).

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919. **Peltigera rufescens** (Weiss) Humboldt

AUSTRIA, Tirol, Osttirol, Karnische Alpen, 3.4 km south of Kartitsch, path along the valley Winklertal to the lake Obstanser See, near Prinz-Heinrich-Kapelle, 46°41'44"N, 012°29' 25"E, (grid number 9340/2), elevation 1960 m, on ground (above south-exposed limestone rocks). – 3 July 2005, collected and determined by Roman Türk (37792).

Note: Richly fruiting material.

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920. **Pertusaria hymenea** (Acharius) Schaerer

SPAIN, Balearic Islands, Mallorca, Sierra de Tramontana, along the road from Sóller to Lluc, 4 km west-northwest of Lluc, 39°49'43"N, 002°50'15"E, elevation 590 m, *Pinus* forest with *Olea europaea*, on stem bark of *Olea europaea*. – 23 August 2013, collected and determined by Walter Obermayer (12990).

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921. **Pertusaria pertusa** (Weigel) Tuckerman

ALBANIA, Qarku i Tiranës (County of Tirana), 10 km east-northeast of the centre of Tirana, Mount Dajt, between the restaurant "Panorama" and the saddle Qafa e Qershisë, 41°22'15"N, 019°55'20"E, elevation 1100 m, deciduous forest over limestone on a westexposed slope, on bark of *Acer opalus*. – 20 August 2007, collected and determined by Josef Hafellner (71110) [excursion together with Mauro Tretiach, Lucia Muggia, Massimo Piccoto and Jani Marka].

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922. **Petractis hypoleuca** (Acharius) Vězda

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm (northwest of Weiz), 2.1 km east-southeast of Arzberg, path at the orographically left side of the gorge, in the sinuosity of the river Raab between Gamswand and Enzianwand, 47°14'30"N, 015°32'45"E, (grid number 8759/3), elevation 550 m, base area of the north-west exposed limestone cliff, on inclined faces of calcareous rocks (with high ground moisture). – 8 October 2009, collected and determined by Josef Hafellner (74494).

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923. **Phaeophyscia chloantha** (Acharius) Moberg

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 7 km east of the centre of Graz, 3.1 km southwest of Hönigtal, 460 m southwest of Rot, between the roads Ragnitzstraße and Höhenstraße, 47°04'45"N, 015°31'38"E, (grid number 8959/1), elevation 480 m, open meadow with single apple trees, on stem bark of *Malus domestica* (0.2-1 m above ground). – 11 November 2012, collected and determined by Walter Obermayer (12543).

Note: All specimens with many apothecia and unusual dark and narrow lobed thalli.

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924. **Phaeophyscia chloantha** (Acharius) Moberg

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm (northwest of Weiz), 0.2 km southeast of Arzberg, orographically right side of the river Raab, 47°14'53"N, 015°31'25"E, (grid number 8759/3), elevation 570 m, riparian forest, on bark of *Fraxinus excelsior*. – 26 October 2009, collected and determined by Josef Hafellner (74587).

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925. **Phaeorrhiza nimbosa** (Fries) Helmut Mayrhofer and Poelt

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Koralpe, 9.5 km southeast of the centre of Wolfsberg, Steinschneider, gently inclined ridge northwest below the relay station, 46°47'48"N, 014°57'13"E, (grid number 9255/2), elevation 1980 m, low outcrops of mineral rich marble in alpine meadows, on bryophytes and plant remnants. – 11 June 2009, collected and determined by Josef Hafellner (73538).

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926. **Phaeorrhiza nimbosa** (Fries) Helmut Mayrhofer and Poelt

LIECHTENSTEIN, Rätikon, mountain ridge between Augstenberg and N ospitz, south-southwest above the village Malbun, south above Vaduzer Täli, 47°05'20"N, 09°36'15"E, elevation 2060 m, small cliffs of calcareous rocks in alpine vegetation, on soil (exposed to the south). – 27 August 2008, collected and determined by Josef Hafellner (72847).

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927. **Phlyctis argena** (Acharius) Flotow

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.4 km northtwest of Schladming, Ramsau, 0.5 km north of the church of Ramsau-Ort, 47°25'40"N, 013°39'00"E, (grid number 8547/4), elevation 1180 m, roadside trees in open meadows, on bark of *Acer pseudoplatanus* (stem base). – 19 February 2007, collected and determined by Walter Obermayer (12358).

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928. **Phlyctis argena** (Sprengel) Flotow

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Schöckl, 2.9 km north of Sankt Radegund, forest area between Schöcklkreuz and R abnitzberg, 47°12'25"N, 15°29'20"E, (grid number 8758/4), elevation 1115 m, mixed forest (*Abies alba*, *Fagus sylvatica*, *Picea abies*, *Sorbus aucuparia*), on stem bark of *Larix decidua*. – 6 January 2012, collected and determined by Walter Obermayer (12512).

Note: The typical white, arachnoid, radiating prothallus is well developed on all issued specimens.

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929. **Physcia stellaris** (Linnaeus) Nylander

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), 1.4 km south-southwest of the centre of Neumarkt, 180 m southwest of Mühldorf, road from Mühldorf to Pöllau, 47°03'40"N, 014°25'10"E, (grid number 8952/2), elevation 860 m, along the road at the edge of a spruce forest, on twigs of *Larix decidua*. – 25 December 2009, collected by Walter Obermayer (12588) and Brigitte Cartellieri, determined by Walter Obermayer.

Note: Associated species: *Amandinea punctata, Evernia prunastri, Hypogymnia physodes, H. tubulosa, Melanelixia subargentifera, Melanohalea exasperatula, Parmelia sulcata, Rinodina freyi, Scoliciosporum umbrinum,* and *Usnea* (several taxa)

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930. **Physconia muscigena** (Acharius) Poelt

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 12 km west-northwest of Köflach, 200 m south of Altes Almhaus, Wölkerkogel, 47°04'50"N, 14°55'30"E, (grid number 8955/2), elevation 1690 m, pasture ground with marble outcrops, on plant debris. – 25 April 2012, collected and determined by Walter Obermayer (12519).

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931. **Placidium semaforonense** (Breuss) Breuss

GREECE, Crete, 40 km southwest of the centre of Chania, south coast of Crete, 4.5 km east of Paleochora, 35°14'22"N, 023°44'15"E, elevation 5 m, boulders (20 m off the shore), on earth (horizontal surface of a calcareous boulder). – 23 August 2012, collected by Walter Obermayer (12519b), determined by Othmar Breuß.

Note: Associated with *Heppia solorinoides* (white thallus; determined by Othmar Breuß)

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932. **Polycauliona candelaria** (Linnaeus) Frödén, Arup and Søchting
[Synonym: *Xanthoria candelaria*]

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Koralpe, 5.8 km east-northeast of Lavamünd, saddle between Jankitzkogel and Hühnerkogel, gently inclined south-facing slope near a wayside cross, 46°39'00"N, 015°01'35"E, (grid number 9356/1), elevation 1440 m, near a feeding point for game animals on a forest glade with single trees, on stem bark of *Acer pseudoplatanus*. – 23 July 2007, collected and determined by Josef Hafellner (70645).

Note: All specimens with apothecia.

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933. **Porpidia crustulata** (Acharius) Hertel and Knoph

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, Steinplan 8 km southeast of Knittelfeld, southwest-facing slopes along the road from the valley of the brook Kamperbach to Sonnberg, 47°08'50"N, 014°52'00"E, (grid number 8855/1), elevation 940 m, northwest exposed back slope with some juvenile plants of *Picea abies* and *Larix decidua*, on field stones (siliceous schist). – 30 July 2005, collected and determined by Josef Hafellner (65371).

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934. **Pseudevernia furfuracea** (Linnaeus) Zopf
variety *ceratea* (Acharius) David Hawksworth

AUSTRIA, Kärnten (=Carinthia), Saualpe, 12.3 km southwest of Bad Sankt Leonhard, 4.3 km south-southwest of Klippitztörl, summit area of Forstalpe, 46°53'95"N, 014°39'42"E, (grid number 9153/2), elevation 2015 m, alpine meadows with big boulders ('Öfen'), on vertical surface of siliceous rocks (in a big crevice). – 8 September 2012, collected and determined by Walter Obermayer (12501).

Note: The collection consists of many thalli, most of which have been tested with 'C' (DanKlorix®).

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935. **Psorinia conglomerata** (Acharius) Gotthard Schneider

AUSTRIA, Kärnten (=Carinthia), Saualpe, 12.3 km southwest of Bad Sankt Leonhard, 4.3 km south-southwest of Klippitztörl, summit area of Forstalpe, 46°53'95"N, 014°39'42"E, (grid number 9153/2), elevation 2015 m, alpine meadows with big boulders ('Öfen'), on strongly inclined to vertical (southwest-exposed) faces of siliceous rocks. – 16 August 2013, collected and determined by Walter Obermayer (12993).

Note: Specimen in GZU with apothecia and pycnidia.

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936. **Pycnothelia papillaria** Dufour

AUSTRIA, Kärnten (=Carinthia), Saualpe, 13.7 km southwest of Bad Sankt Leonhard, 5.3 km south-southwest of Klippitztörl, path from Hafeneck to Kienberg, 46°53'31"N, 014° 38'58"E, (grid number 9153/2), elevation 2025 m, alpine meadows with big boulders ('Öfen'), on soil. – 16 August 2013, collected and determined by Walter Obermayer (13005).

Note: The issued specimens show mainly the crustose, primary basal thalli (the secondary vertical thalli [podetia] are only scarsely developed).

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937. **Ramalina farinacea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.6 km north-northwest of the centre of Schladming, Ramsau, 280 m northeast of the church of Ramsau-Ort, 500 m southeast of the farmstead Feldlhof, 47°25'26"N, 013°39'28"E, (grid number 8547/4), elevation 1150 m, alley with *Acer pseudoplatanus*, *Fraxinus excelsior*, and *Salix* spec., on twigs of *Salix* spec. – 19 February 2012, collected and determined by Walter Obermayer (12394).

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938. **Ramalina fraxinea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 9.3 km northwest of the centre of Schladming, 5.8 km west of the centre of Ramsau, southwest-facing slopes of Durchat, Hierzegg, 150 m northwest of the farmstead Mühlebner, 47°25'53"N, 013°34'45"E, (grid number 8547/3), elevation 1120 m, single trees in a meadow (below a street), on bark of *Acer pseudoplatanus*. – 22 February 2013, collected and determined by Walter Obermayer (12696).

Note: TLC (specimen in GZU tested): Usnic acid (no further substances). Part of the issued specimens is infected with *Tremella ramalinae* (determined by Josef Hafellner).

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939. **Ramalina fraxinea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), 5.5 km southwest of the centre of Neumarkt, east-facing slopes of Grebenzen, 800 m west-southwest of Pöllau, 'Winkelmoar' (near the spring Pöllauer Ursprung), 47°02'13"N, 014°22'34"E, (grid number 8952/3), elevation 1130 m, single tree along a gravel road, on bark of *Fraxinus excelsior* (along a road). – 27 August 2010, collected and determined by Walter Obermayer (12613).

Note: 1) All specimens with some chasmothecia of a *Phyllactinia* (probably *Ph. fraxini*) stuck to the thalli. 2) All specimens with very distinct, strongly elongated pseudocyphellae. 3) TLC (specimen in GZU tested): Usnic acid only.

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940. **Ramalina fraxinea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 4.6 km north-northwest of the centre of Schladming, Ramsau, 280 m northeast of the church of Ramsau-Ort, 500 m southeast of the farmstead Feldlhof, 47°25'26"N, 013°39'28"E, (grid number 8547/4), elevation 1150 m, alley with *Acer pseudoplatanus* and *Fraxinus excelsior*, on twigs of *Acer pseudoplatanus* and *Fraxinus excelsior*. – 19 February 2012, collected and determined by Walter Obermayer (12391).

Note: TLC (specimen in GZU tested): Usnic acid (no other substances detected).

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941. **Ramalina pollinaria** (Westring) Acharius

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), 2.7 km southwest of the centre of Neumarkt, Mitterberg, farmstead Zeischgl, 47°03'21"N, 014°23'58"E, (grid number 8952/1), elevation 1060 m, single tree in front of the farmstead, on bark of a 550 years old (dead) Tilia. – 25 December 2009, collected and determined by Walter Obermayer (12978).

Note: Specimen in GZU with apothecia.

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942. **Ramalina polymorpha** (Liljeblad) Acharius

MAZEDONIA, Babuna, pass 'Pletvar' east of Prilep, 41°22'20"N, 021°39'55"E, elevation 1200 m, S-exposed slopes with scattered big siliceous boulders, on steep faces of rocks. – 11 July 1977, collected by Josef Hafellner (41647), determined by Hiroyuki Kashiwadani (2008).

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943. **Rhizocarpon badioatrum** (Flörke ex Sprengel) Thore Fries

SLOVENIA, Central Eastern Alps, Styrian Prealps, Kobansko, [Koralpe], mountain top ("Jantschkifels") 7.6 km northeast above Dravograd (=Unterdrauburg), above the chapel Sv.Urban, uppermost slopes exposed to the south below the summit, near the border to Austria, 46°39'08"N, 015°03'49"E, (grid number 9356/1), elevation 1360 m, scattered boulders of garnet schist on clearings in a spruce forest, on steep rock faces. – 20 July 2008, collected and determined by Josef Hafellner (71503).

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944. **Rhizocarpon geographicum** (Linnaeus) Augustin Pyramus DeCandolle

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Koralpe, 9.7 km east-southeast of the centre of Wolfsberg, Sprungkogel, western part of the summit (1 km west of Grillitschütte), 46°48'55"N, 014°58'15"E, (grid number 9155/4), elevation 1860 m, bedded outcrops of mica schist in dwarf-shrub heaths (just above the timber line), on inclined faces of rocks. – 2 December 2006, collected by Josef Hafellner (67322) and Angela Hafellner, determined by Josef Hafellner.

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945. **Rinodina excrescens** Vainio

CZECH REPUBLIC, South Bohemia, Novohradské hory mountains, Český Krumlov district, settlement Žofín, 48°40'34.5"N, 014°41'31.5"E, elevation 750 m, group of old trees at the roadside, on bark of old *Fraxinus excelsior*. – 18 September 2009, collected by Zdeněk Palice (12679) and Jiří Malíček, determined by Helmut Mayrhofer.

Note: TLC (specimen in GZU tested): Pannarin.

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946. **Rinodina immersa** (Körber) Arnold

MONTENEGRO, Dinaric Alps, Durmitor mountain range, Žabljak Municipality, Durmitor National Park, pass Sedlo, 43°05'54"N, 019°03'04"E, elevation 1853 m, on limestone rocks (near the ground). – 17 June 2011, collected by Helmut Mayrhofer (19058) and Andreas Brudermann, determined by Helmut Mayrhofer (2012).

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947. **Rinodina milvina** (Wahlenberg) Thore Fries

KOSOVO, Prokletije, Albanian Alps, Bjeshkët e Nemuna e Kosovës, Gjeravica, northeast-exposed slopes near the summer cottages 1.9 km east of the summit, 42°32'09"N, 020° 09'49.6"E, elevation 1890 m, on low siliceous boulders (in open pasture). – 24 August 2012, collected by Helmut Mayrhofer (19677) and Haxhi Zekaj, determined by Helmut Mayrhofer.

Note: Associated species: *Candelariella vitellina, Rhizocarpon geographicum, Aspicilia caesiocinerea.*

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948. **Rinodina pyrina** (Acharius) Gray

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, 3 km northwest of Sankt Radegund, Schöckl, summit plateau, west of Stubenberghaus, 47°11'55"N, 15°27'55"E, (grid number 8858/2), elevation 1440 m, border of a pasture, on twigs of *Larix decidua*. – 6 January 2012, collected by Walter Obermayer (12328), determined by Helmut Mayrhofer (2011).

Note: All specimens show *Rinodina pyrina* (grey thallus) partly growing shoulder to shoulder with *Rinodina freyi* (brownish thallus), in some specimens even with abutting apothecia. *Rinodina sophodes* was found on the same twigs and may be scantily intermixed.

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949. **Rinodina thiomela** (Nylander) Müller Argoviensis

AUSTRALIA, New South Wales, Crookwell, 10 km northwest of Crookwell, along the road to Binda, elevation 830 m, along a small creek, on schist. – 25 July 1992, collected by Helmut Mayrhofer (10996) and Eleonore Hierzer, determined by Helmut Mayrhofer.

Note: TLC (Wardlaw and Elix 1999, specimen in GZU tested): Thiomelin (major), 8-O-methylthiomelin (minor), 2-dechlorothiomelin (minor), 4-dechlorothiomelin (minor), atranorin (traces).

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950. **Rinodina trevisanii** (Hepp) Körber

AUSTRIA, Steiermark (=Styria), Ennstaler Alpen, Haller Mauern north of Admont, Grabnerstein north above Buchauer Sattel, south-facing slopes northeast of Grabneralmhaus, 47°37'45"N, 014°30'20"E, (grid number 8353/3), elevation 1500 m, stand of mugo pines (*Pinus mugo*) with single trees and limestone boulders (in a forest glade), on stem bark of *Acer pseudoplatanus*. – 26 October 2006, collected by Josef Hafellner (67101) and Lucia Muggia, determined by Helmut Mayrhofer.

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951. **Rinodina turfacea** (Wahlenberg) Körber variety *cinereovirens* (Vainio) Helmut Mayrhofer

CANADA, British Columbia, north-northeast of Prince George, near Willow River, Perry Farm, 54°07'07"N, 122°32'28"W, elevation 600 m, on bark of *Populus* spec. – 22 August 1994, collected and determined by Helmut Mayrhofer (17209).

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952. **Solorina crocea** (Linnaeus) Acharius

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc Group, 3.5 km south-southeast above Chamonix, 500 m south of the cable car station at Plan de l'Aiguille, 45°53'48"N, 006°53'14"E, elevation 2300–2350 m, slopes and ridge of a border moraine, alpine vegetation with siliceous boulders, on ground. – 18 August 2011, collected and determined by Walter Obermayer (12359).

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953. **Solorina saccata** (Linnaeus) Acharius

ITALY, Trentino-Alto Adige [Trentino-Südtirol], Dolomites, 7 km south-southwest of the train station of Olang, Hochalpe, east of Lapadures Joch, 46°42'25"N, 012°00'35"E, elevation 2230 m, alpine meadows, on earth. – 6 July 1999, collected by Helmut Mayrhofer (18162) and Herwig Teppner, determined by Helmut Mayrhofer.

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954. **Solorina spongiosa** (Acharius) Anzi

AUSTRIA, Salzburg, Lungau Region (=Tamsweg District), Murauer Berge, 12.7 km east of the centre of Tamsweg, path from Dorfer Hütte to the summit of Gstoder, 47°08'27"N, 013°58'32"E, (grid number 8849/4), elevation 1800 m, earthy slope of a four years old road (contact zone of marble and garnet mica schist), on bare earth. – 15 June 2007, collected and determined by Roman Türk (41894).

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955. **Stereocaulon symphycheilum** Ivan Lamb

AUSTRIA, Kärnten (=Carinthia), Saualpe, 12.3 km southwest of Bad Sankt Leonhard, 4.3 km south-southwest of Klippitztörl, summit area of Forstalpe, 46°53'95"N, 014°39'42"E, (grid number 9153/2), elevation 2015 m, alpine meadows with big boulders ('Öfen'), on mosses (above siliceous rocks). – 8 September 2012, collected and determined by Walter Obermayer (12499).

Note: Tips of capitate soredia and medulla UV+ white (due to divaricatic acid).

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956. **Thamnolia vermicularis** (Swartz) Schaerer [in the narrow sense]

AUSTRIA, Steiermark (=Styria), Seckauer Tauern, 20 km northwest of the centre of Knittelfeld, Hochreichart, summit area, 47°21'49"N, 014°40'55"E, (grid number 8654/1), elevation 2410 m, alpine scree and raw soil, on ground. – 28 August 2012, collected and determined by Walter Obermayer (12477).

Note: All samples tested with an UV-lamp. A few intermixed thalli of *Thamnolia subuliformis* have been removed.

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957. **Trapelia coarctata** (Turner ex Smith) Maurice Choisy

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, Ochsenkogel 1.7 km southwest of Modriach, gently inclined, northeast-facing slopes, 46°56'45"N, 015°02'50"E, (grid number 9056/3), elevation 1160 m, northeast exposed back slope of a forest road in a montane spruce forest, on small stones of mica schist. – 17 May 2008, collected by Josef Hafellner (71179) and Lucia Muggia, determined by Josef Hafellner.

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958. **Trapeliopsis granulosa** (Hoffmann) Lumbsch

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, southwest of Köflach, northwest of Packsattel, midway between Knödelhütte and Bernsteinhütte, Lahnofen just southeast below the hilltop, 46°59'40"N, 014°55'45"E, (grid number 9055/2), elevation 1510 m, small outcrops and big boulders of mica schist (in loose *Picea abies* and *Larix decidua* forest), on bryophytes. – 10 August 2005, collected and determined by Josef Hafellner (64891).

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959. **Usnea hirta** (Linnaeus) Weber ex Wiggers

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 5.3 km northwest of the centre of Schladming, Ramsau, 1 km west-northwest of the church of Ramsau-Ort, between the farmsteads Knoll and Grah, 47°25'33"N, 013°38'34"E, (grid number 8547/4), elevation 1190 m, edge of a small forest, on contorted wire of an electric pasture fence (mounted on bark of *Larix decidua*) and on twigs of *Larix decidua*. – February 2013, collected and determined by Walter Obermayer (12738).

Note: TLC (at least three thalli of each specimen tested): Usnic acid, 3 fatty acids of the murolic acid complex. Other densely tufted taxa of the genus *Usnea* (with alectorialic acid or thamnolic acid or salazinic acid) are partly intermixed.

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960. **Xanthomendoza fulva** (Hoffmann) Søchting, Kärnefelt and Sergei Kondratyuk

[Synonyms: *Xanthoria fulva*, *Gallowayella fulva*]

AUSTRIA, Steiermark (=Styria), Dachsteinmassiv, 3.5 km north of the centre of Schladming, 2.2 km east of the centre of Ramsau, 47°25'18"N, 013°41'02"E, (grid number 8548/3), elevation 1060 m, open meadow with detached *Acer pseudoplatanus*, on stem bark of *Acer pseudoplatanus*. – 20 February 2012, collected and determined by Walter Obermayer (12457).

distributed to: **CANB, E, GZU, M, MIN, NY, UPS**

Lichenicolous Biota (Nos 151–180)

Josef HAFELLNER*

HAFELLNER Josef 2013: Lichenicolous Biota (Nos 151–180). – Fritschiana (Graz) 76: 47–68. - ISSN 1024-0306.

Abstract: The seventh fascicle (30 numbers) of the exsiccata "Lichenicolous Biota" is published. The issue contains material of 10 lichenized and 20 non-lichenized fungal taxa (26 ascomycetes, 2 basidiomycetes, 2 anamorphic fungi) [admixtures not counted]. It includes isotype material of *Gyalideopsis stereocaulicola* Etayo (no. 157), as well as paratype material of *Lecanora printzenii* Pérez-Ortega, Vivas & Hafellner (no. 176). Furthermore collections of the type species of the following genera are distributed: *Bachmanniomyces* (*B*. *uncialicola*), *Epicladonia* (*E*. *sandstedei*), *Epilichen* (*E*. *scabrosus*), *Lichenochora* (*L*. *obscuroides*, syn. *L*. *thallina*), *Phaeopyxis* (*P*. *punctum*), and *Telogalla* (*T*. *olivieri*). For *Lichen varians* Davies an i llustration published together with the protologue is designated as the lectotype and an epitype is selected (no. 152 of this exsiccata fascicle).

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Introduction

The exsiccata "Lichenicolous Biota" is continued with fascicle 7 c ontaining 30 numbers.

The exsiccata covers all lichenicolous biota, i.e., it is open not only to non-lichenized and lichenized fungi, but also to myxomycetes, bacteria, and even animals, whenever they cause a characteristic symptom on their host being a lichen (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], Saint Petersburg [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). Also in the future it is planned to publish at least one fascicle per year, consisting of a variable number of decades.

The grid reference preceded by the abbreviation “GF” refers to the grid used by the project “Floristische Kartierung Mitteleuropas” (floristic mapping of Middle Europe, e.g. EHRENDORFER & HAMANN 1965).

For the 7th issue, I gratefully acknowledge the contribution of 2 collections by Paul Diederich and 1 collection each by Jana Kocourková, Walter Obermayer, the late Rolf Santesson (together with Anders Tehler & Göran Thor), and Jan Vondrák (together with Olga Merkulova). In fieldwork I received support by Angela Hafellner, Celia Hampton-Miller, Jani Marka, Lucia Muggia, Massimo Piccotto, Toby Spribille, and Mauro Tretiach. Jana Kocourková, Paul Diederich, Javier Etayo, and Jan Vondrák contributed to the scientific content of the fascicle by the identification of either lichenicolous fungi, hosts or by providing data published in the notes. Christian Scheuer, Walter Obermayer, and Helmut Mayrhofer are 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.

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

151. ***Arthonia stereocaulina*** (Ohlert) R.Sant.

in Lichenicolous Fungi Sweden Norway: 18 (1993). – Bas.: *Arthonia nephromaria* var. *stereocaulina* Ohlert in Schrift. K. Physik.-ökon. Ges. Königsberg 11: 49 (1870). – Syn.: *Conida nephromaria* var. *stereocaulina* (Ohlert) Rehm in Rabenh. Krypt.-Fl., Pilze, 2. ed., 1(3): 425 (1890). – *Conida fuscopurpurea* f. *stereocaulina* (Ohlert) Keissl. in Rabenh. Krypt.-Fl., Pilze, 2. ed., 8: 80 (1930).

Host: *Stereocaulon alpinum* (thallus)

Europe, **Switzerland**: Kanton Bern, Western Alps, Urner Alps, area of Steigletscher (Steingletscher) (below Sustenpass) *c*. 20 k m NE of the town Meiringen, Chüöbärgli, on slopes exposed to the N, 46°43'10''N / 08°25'45''E, elevation *c*. 2100 m alt., outcrops of siliceous rocks (granite, schist) in alpine vegetation, on soil.

Note 1: The type host of *Arthonia stereocaulina* is *Stereocaulon condensatum* (Santesson, l.c.).

Note 2: The original spelling of the epithet "*nephromiaria*" was orthographically corrected to "nephromaria" by Santesson (l. c.) following ICBN 60.12.

26. VIII. 2006 leg. J. Hafellner (77449), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

152. ***Arthonia varians*** (Davies) Nyl. **Epitype**

in Lich. Scandinaviae: 260 (1861). – Bas.: *Lichen varians* Davies in Transact. Linn. Soc., Bot., 2: 284 (1794). – Syn.: *Celidium varians* (Davies) Arnold in Flora (Regensburg) 45: 313 (1862). – *Arthonia glaucomaria* Nyl. in Mem. Soc. Imp. Sci. Nat. Cherbourg 4: 98 (1856), non *Lecidea glaucomaria* Nyl. (1852) quid est *Phacographa glaucomaria* (Nyl.) Hafellner.

Host: *Lecanora bicincta* (apothecia)

Europe, **Austria**: Kärnten (Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe E above the town Wolfsberg, Steinschneider, gently inclined ridge exposed to the W below the broadcasting station, 46°47'48''N / 14°57'13''E, *c*. 1980 m alt., GF 9255/2; low outcrops of mineral-rich marble surrounded by alpine meadows, on inclined rock faces.

Note: The species has originally been described as a lichen with variably coloured apothecial discs. Nylander (l.c.) realized that it constitutes a 3 -biont-system consisting of the bipartite *Lecanora rupicola* serving as the host lichen and a lichenicolous *Arthonia*, for long time treated under the synonymous name *A*. *glaucomaria* Nyl. *Lichen varians* is herewith lectotypified on the one hand on the lichenicolous fungus causing the glossy black discs, on the other hand on the illustration tab. 28, Fig. 3A accompanying the original description by Davies (l.c.) (lectotype designated here). Hafellner, Lichenicolous Biota no. 152 (specimen in GZU) is selected as the epitype for the lichenicolous fungus.

11. VI. 2009 leg. J. Hafellner (73519), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

153. ***Cercidospora lichenicola*** (Zopf) Hafellner

in Herzogia 7(3–4): 360 (1987). – Bas.: *Leptosphaeria lichenicola* Zopf in Hedwigia 35: 358 (1896). – Syn.: *Metasphaeria lichenicola* (Zopf) Vouaux in Bull. Soc. Mycol. France 29: 102 (1913).

Host: *Solorina crocea* (thallus, apothecia)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Niedere Tauern, Wölzer Tauern, mountain chain *c*. 4 km W of the village Pusterwald, ridge between Steineck and Stubenberg, 47°17’40’’N / 14°18’10’’E, *c*. 2170 m alt., GF 8751/2; scattered boulders of garnet micaschist in open alpine vegetation on slope exposed to the N, on soil.

Note 1: *Solorina crocea* is the type host of *Cercidospora lichenicola*.

Note 2: The taxon is sometimes regarded as a heterotypic synonym of either *C*. *punctillata* (Nyl.) R.Sant. (type host is ?*Omphalina hudsoniana*) or *C*. *decolorella* (Nyl.) O.E.Erikss. & J.Z.Yue (type on senescent mosses). These taxa are regarded here as specifically different.

Note 3: *Solorina crocea* may additionally be infested by *Arthonia peltigerina* (Almq.) H.Olivier (as seen on specimen in GZU).

12. VIII. 2012 leg. J. Hafellner (80906), L. Muggia & A. Hafellner, det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

154. ***Corticifraga fuckelii*** (Rehm) D.Hawksw. & R.Sant.

in Biblioth. Lichenol. 38: 125 (1990). – Bas.: *Phragmonaevia fuckelii* Rehm in Rabenh. Krypt.-Fl. 2. ed., 1(3): 166 (1888). – Syn.: *Peziza fuckelii* (Rehm) Sacc. in Syll. Fung. 8: 85 (1889).

Host: *Peltigera* spec. (thallus)

North America, **U.S.A.**: Alaska, Yukon-Koyukuk Census Area, Brooks Range, Endicott Mountains, valley of Middle Fork of Koyukuk River N of Wiseman, between Hammond Road and Trans Alaska Pipeline, 67°28’00’’N / 150°03’ 00’’W, *c*. 370 m alt.; boreal forest with dominant *Picea mariana* and understorey of *Betula glandulosa* over alluvial soils, on the mossy ground.

Note 1: The type host of *Corticifraga fuckelii* is a *Peltigera* not determined to species level.

Note 2: Isotypes of the species have been distributed in Fuckel, Fungi Rhen., Suppl. fasc. 6, no. 2069.

18. VIII. 2010 leg. J. Hafellner (80267), det. J. Hafellner (excursion together with T. Spribille, L. Muggia and C. Hampton-Miller)

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

155. ***Endococcus stigma*** (Körb.) Stizenb.

in Jahresber. St. Gall. Naturwiss. Ges. 1880/81: 516 (1882). – Bas.: *Tichothecium stigma* Körb. in Parerga Lichenol.: 468 (1865). – Syn.: *Discothecium stigma* (Körb.) Zopf in Nova Acta Leop.-Carol. Acad. 70(2): 127 (1897).

Host: *Acarospora* spec. (thallus)

Europe, **Austria**: Kärnten (Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe E above the town Wolfsberg, Seespitz, northern ridge towards the saddle to summit 2005, gentle slope exposed to NW descending into the cirque Großes Kar, 46°47'30''N / 14°58'47''E, *c*. 2030 m alt., GF 9255/2, area covered with small, loose slabs of „Plattengneis" in open, alpine vegetation, on small slabs.

Note: The type host of *Endococcus stigma* was originally identified as *Lecidea lamprophora*. According to Triebel (Biblioth. Lichenol. 35: 226, 1989) it is more likely a sterile *Acarospora*.

11. X. 2008 leg. J. Hafellner (72644), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

156. ***Epicladonia sandstedei*** (Zopf) D.Hawksw.

in Bull. Brit. Mus. Nat. Hist., Bot. ser. 9(1): 16 (1981). – Bas.: *Diplodina sandstedei* Zopf in Sandstede, Abh. Naturwiss. Ver. Bremen 18: 429 (1906).

Host: *Cladonia caespiticia* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, Raabklamm NW of the town Weiz, orographically left slopes SSW below the village Grillbichl, 47°13'10''N / 15°33'50''E, *c*. 550 m alt., GF 8759/3; talus of forest road running through a mixed forest, on soil.

Note: *Cladonia caespiticia* is the type host of *Epicladonia sandstedei*.

19. IX. 2009 leg. J. Hafellner (74798), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

157. ***Gyalideopsis stereocaulicola*** Etayo **Isotype**

in Bull. Soc. Linn. Provence 61: 100 (2010).

Host: *Stereocaulon strictum* (thallus)

South America, **Peru**: dept. Cuzco, prov. Paucartambo, road Paucartambo–Pillcopata, just SW of Paso de Tres Cruces, 13°08'S / 71°38'W, *c*. 3450 m alt.

Note 1: The new species was detected during the 12th Regnellian Expedition.

Note 2: No habitat data were indicated on the available label. As seen from Google Earth the dominant landscape type in the given area is a puna grassland.

27. III. 1981 leg. R. Santesson, A. Tehler & G. Thor (P96: 22), det. J. Etayo

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

158. ***Lichenochora obscuroides*** (Linds.) Triebel & Rambold

in Rambold & Triebel, Biblioth. Lichenol. 48: 168 (1992). – Bas.: *Lecidea obscuroides* Linds. in Trans. Roy. Soc. Edinburgh 22: 112, 247 (1859). – Syn.: *Lichenochora thallina* (Cooke) Hafellner in Nova Hedwigia 48: 363 (1989).

Host: *Phaeophyscia orbicularis* (thallus)

Europe, **Austria**: Steiermark (Styria), Oststeirisches Hügelland, Graz, Ragnitztal in the eastern suburb of the town, Dr. Hanischweg, 47°04'35''N / 15°28'50''E, *c*. 380 m alt., GF 8958/2; old orchard, on lower canopy branches of *Juglans regia*.

Note: *Phaeophyscia orbicularis* is the type host of *Lichenochora obscuroides*.

10. IV. 1999 leg. J. Hafellner (51802), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

159. ***Roselliniella microthelia*** (Wallr.) Nik.Hoffm. & Hafellner

in Biblioth. Lichenol. 37: 93 (1990). – Bas.: *Verrucaria microthelia* Wallr. in Fl. Cryptog. Germ. 1: 309 (1831). – Syn.: *Physalospora microthelia* (Wallr.) G.Winter in Hedwigia 25: 23 (1886). – *Laestadia microthelia* (Wallr.) Vouaux in Bull. Soc. Mycol. France 28: 218 (1912). – *Guignardia microthelia* (Wallr.) Keissl. in Rabenh. Krypt.-Fl., 2. ed., 8: 344 (1930).

Host: *Trapelia placodioides* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, Raabklamm NW of the town Weiz, orographically left slopes SSW below the village Grillbichl, 47°13’10’’N / 15°33’50’’E, *c*. 550 m alt., GF 8759/3; talus of forest road running through a mixed forest, on pebbles of micaschist.

Note: No host is mentioned in the protologue of *Roselliniella microthelia*.

19. IX. 2009 leg. J. Hafellner (74796), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

160. ***Telogalla olivieri*** (Vouaux) Nik.Hoffm. & Hafellner

in Biblioth. Lichenol. 77: 109 (2000). – Bas.: *Laestadia olivieri* Vouaux in Bull. Soc. Mycol. France 28: 216 (1912) nomen novum for *Verrucaria xanthoriae* Wedd. f. *megaspora* H.Olivier in Princ. Paras. Lich. Fr. Suppl. 1: 14 (1907).

Host: *Xanthoria parietina* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Mürztaler Alpen, Kleinveitschtal NE of the village Veitsch, short NE of Proschenhofsiedlung, 47°35’ 20’’N / 15°30’10’’E, *c*. 695 m alt., GF 8459/1, row of trees along a fence between a meadow and a pasture, on branches of *Fraxinus excelsior*.

Note 1: *Xanthoria parietina* is the type host of *Telogalla olivieri*.

Note 2: *Xanthoria parietina* may additionally be infested by *Xanthoriicola physciae* (Kalchbr.) D.Hawksw. (as seen on the specimen in GZU).

31. X. 2010 leg. J. Hafellner (76437) & L. Muggia, det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

161. ***Abrothallus cetrariae*** I.Kotte

in Centralbl. Bakt. Paras., 2. Abt., 24: 82 (1909).

Host: *Platismatia glauca* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Mürzsteger Alpen, Greithgraben N of the village Turnau, short N of the hunting lodge Greith, surroundings of the wayside shrine Barbarakreuz, 47°37'00''N / 15°20'30''E, *c*. 1020 m alt., GF 8358/3; mixed forest with dominant conifers close to the creek, bark of *Acer pseudoplatanus*.

Note 1: *Platismatia glauca* is the type host of *Abrothallus cetrariae*.

Note 2: In the distributed material the anamorphic state is dominant; but all duplicates with at least some ascomata present.

22. X. 2006 leg. J. Hafellner (81682) & L. Muggia, det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

162. ***Abrothallus parmeliarum*** (Sommerf.) Nyl.

in Bull. Soc. Linn. Normandie, 2. sér., 3: 12 (1869). – Bas.: *Lecidea parmeliarum* („*parmeliorum*“) Sommerf. in Suppl. Flor. Lappon.: 176 (1826). – Syn.: *Buellia parmeliarum* (Sommerf.) Tuck. in Synopsis North American Lichens 2: 106 (1888). – *Buelliella parmeliarum* (Sommerf.) Fink in Lichen Fl. United States: 372 (1935).

Host: *Parmelia omphalodes* (thallus)

North America, **U.S.A.**: Alaska, Denali Borough, Alaska Range, 9.6 air km NE of Cantwell, base of Panorama Mountain, 63°27'55''N / 148°48'05''W, *c*. 680 m alt.; south-facing boulder scree of paleozoic greenstone between patches of *Alnus* spec., on boulders.

Note: Two species of *Parmelia* s. str. are mentioned in the protologue as host species, *Parmelia omphalodes* and *P. saxatilis*. A lectotype has not been designated so far.

24. VIII. 2010 leg. J. Hafellner (79981), det. J. Hafellner
(excursion together with T. Spribille, L. Muggia and C. Hampton-Miller)

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

163. ***Abrothallus tulasnei*** M.S.Cole & D.Hawksw.

in Mycotaxon 77: 310 (2001).

Host: *Xanthoparmelia conspersa* (thallus, apothecia)

Europe, **Czech Republic**: Southern Moravia, Distr. Znojmo, Podyjí National Park, Vranov nad Dyjí, *c*. 1 km SE of the village Zadní Hamry, above Dyje River, 48°52'50.4''N / 15°50'07''E, *c*. 330 m alt., in shady NE-facing boulder scree, on gneiss boulders.

Note: The type host of *Abrothallus tulasnei* is *Xanthoparmelia stenophylla* (sub *X*. *somloensis*).

4. IX. 1998 leg. J. Kocourková (8210), det. J. Kocourková

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

164. ***Bachmanniomyces uncialicola*** (Zopf) D.Hawksw.

in Bull. Brit. Mus. (Nat. Hist.) Bot. 9(1): 11 (1981). – Bas.: *Phyllosticta uncialicola* Zopf in Hedwigia 35: 324 (1896). – Syn.: *Phoma uncialicola* (Zopf) Vouaux, Bull. Soc. Mycol. France 30: 198 (1914).

Host: *Cladonia uncialis* (thallus)

North America, **U.S.A.**: Alaska, Yukon-Koyukuk Census Area, Brooks Range, Endicott Mountains, Midnight Dome, lowermost NE-facing slope above secondary dirt road at entrance of valley of Hammond River, 67°28'50''N / 150° 02'40''W, *c*. 420 m alt.; moss-covered boulder-bed in stand of *Betula neoalaskana*, in deep moss layer.

Note 1: *Cladonia uncialis* is the type host of *Bachmanniomyces uncialicola*.

Note 2: In the protologue no type is mentioned. A neotype ("lectotype") has been selected by Hawksworth (l.c.).

18. VIII. 2010 leg. J. Hafellner (79918), det. J. Hafellner
(excursion together with T. Spribille, L. Muggia and C. Hampton-Miller)

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

165. ***Dacampia engeliana*** (Saut.) A.Massal.

in Geneac. Lich.: 22 (1854) (as "*Dacampia Engeliam*"). – Bas.: *Sagedia engeliana* Saut. in Bot. Centralbl. 20: 406 (1846). – Syn.: *Xenosphaeria engeliana* (Saut.) Trevis. in Conspectus Verruc.: 18 (1860). – *Pleospora engeliana* (Saut.) G.Winter in Rabenh. Krypt.-Fl., 2. ed., 1(2): 493 (1885). – *Polyblastia engeliana* (Saut.) H.Olivier in Bull. Acad. Geogr. Bot. 16: 258 (1906).

Host: *Solorina saccata* (thallus)

Europe, **Liechtenstein**: Eastern Alps, Rätikon, mountain ridge between Augstenberg and Nospitz, SSW above the village Malbun, S above Vaduzer Täli, 47°05'20''N / 09°36'15''E, *c*. 2060 m alt., small cliffs of calcareous rock in alpine vegetation, on soil exposed to the N.

Note 1: The species was originally described as a lichen, not recognizing the fungus forming perithecioid ascomata being lichenicolous on a *Solorina* thallus.

Note 2: In accordance with the common use the name is herewith typified on the fungal component forming perithecioid ascomata.

27. VIII. 2008 leg. J. Hafellner (72868), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

166. ***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 Syll. Lich. Ital.: 353 (1900).

Host: *Cladonia digitata* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Gurktaler Alpen, E-facing slopes of Grebenzen, 6.1 km SSW of the village Neumarkt, 1.6 km S of Pöllau, between the farmhouse Fuchs and the area called "Königreich", 47°01'28''N / 14°23'15''E, *c*. 1200 m alt.; coniferous forest, on strongly rotten wood of a stump.

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

Note 2: An isotype has been restudied by Rambold & Triebel (l.c.), but the host species is not indicated either.

11. VIII. 2010 leg. W. Obermayer (11995), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

167. ***Sagediopsis fissurisedens*** Hafellner

in Herzogia 9(3–4): 757 (1993).

Host: *Aspilidea myrinii* (thallus)

Europe, **Austria**: Kärnten (Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe, ca. 11.5 km NE above the village St. Paul im Lavanttal, Krakaberg SE of the Koralpenhaus, southern side of summit area, 46°46'50''N / 14°58'15''E, *c*. 2070 m alt., GF 9255/2, boulders and outcrops of a hard quartzitic schist, on inclined rock faces.

Note: *Aspilidea myrinii* is the type host of *Sagediopsis fissurisedens*.

2. VII. 2007 leg. J. Hafellner (68472), L. Muggia & A. Hafellner
det. J. Hafellner

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

Hafellner J. 2012: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

168. ***Tremella caloplacae*** (Zahlbr.) Diederich

in Sérusiaux et al., Lejeunia 173: 31 (2003). – Bas.: *Lindauopsis caloplacae* Zahlbr. in Ber. Deutsch. Bot. Ges. 24: 145 (1906).

Host: *Xanthoria parietina* (apothecia)

Europe, **Luxembourg**: SSW of Belvaux, Kiemreech, 49°29'57''N / 5°53'38''E, *c*. 370–390 m alt., IFBL M8.51.21; ancient mining area, on twigs of *Salix caprea*.

Note: The type host of *Tremella caloplacae* is *Caloplaca aurantia*.

8. IX. 2012 leg. P. Diederich (17473), det. P. Diederich

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

169. ***Tremella lobariacearum*** Diederich & M.S.Christ.

in Diederich, Biblioth. Lichenol. 61: 103 (1996).

Host: *Lobaria macaronesica* (thallus)

Europe, **Azores**: Pico, between Lajes do Pico and São Roque do Pico, Bosque da Junqueira, 1 km S of crossing with road going to the E, 38°27’56’’N / 28°17’57’’W, *c*. 650 m alt.; laurel forest, on *Vaccinium cylindraceum*.

Note: The type host of *Tremella lobariacearum* is *Lobaria pulmonaria*.

26. VII. 2010 leg. P. Diederich (17077), det. P. Diederich

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

170. ***Unguiculariopsis thallophila*** (P.Karst.) W.Y.Zhuang

in Mycotaxon 32: 62 (1988). – Bas.: *Trochila thallophila* P.Karst. in Notiser Sällsk. Fauna Flora Fenn. 11: 246 (1870). – Syn.: *Pyrenopeziza thallophila* (P.Karst.) Sacc. in Syll. Fung. 8: 370 (1889). – *Mollisia thallophila* (P.Karst.) P.Karst. in Bidr. Känned. Finlands Nat. Folk 19: 205 (1871). – *Skyttea thallophila* (P.Karst.) Sherwood, D.Hawksw. & Coppins in Trans. Brit. Mycol. Soc. 75: 489 (1981).

Host: *Lecanora carpinea* (thallus, apothecia)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Nördliche Kalkalpen, Hochschwab-Gruppe, Seetal W of Seewiesen, *c*. 10 km NE of the village Aflenz, 47°37’15’’N / 15°15’20’’E, *c*. 930 m alt., GF 8357/4; row of trees along a fence surrounding a meadow, on branches in the lower canopy of *Fraxinus excelsior*.

Note: The type host of *Unguiculariopsis thallophila* is “*Lecanora subfusca*” but probably of the species of the “subfusca”-group was not critically determined.

20. VI. 2011 leg. J. Hafellner (78034), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

171. ***Caloplaca grimmiae*** (Nyl.) H.Olivier

in Mém. Soc. Imp. Sci. Nat. Cherbourg 37: 119 (1909). – Bas.: *Lecanora grimmiae* Nyl. in Flora (Regensburg) 69: 97 (1886). – Syn.: *Placodium grimmiae* (Nyl.) Vain. in Természettudományi Füzetek 22: 297 (1899).

Host: *Candelariella vitellina* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, Steinkogel S above the village Gasen, *c.* 10 km W of the town Birkfeld, gentle slope exposed to the SE, small rocky hill with altitude notation 1356, 47°21'05''N / 15°34'15''E, *c*. 1350 m alt., GF 8659/1; subalpine pasture somewhat above the actual tree line, on boulders of greenschist.

Note 1: Lichenicolous growth is not mentioned in the protologue but was demonstrated for the holotype specimen by Poelt & Kalb (Flora (Jena) 176: 132, 1985). The type host of *Caloplaca grimmiae* is *Candelariella vitellina*.

Note 2: All specimens contain the lichenicolous fungus *Carbonea vitellinaria* (Nyl.) Hertel as admixture.

13. XI. 2010 leg. J. Hafellner (76517) & L. Muggia, det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

172. ***Caloplaca oasis*** (A.Massal.) Szatala

in Magyar Bot. Lapok 31:120 (1932). – Bas.: *Callopisma aurantiacum* var. *oasis* A. Massal. in Sched. Criticae Lich. Exs. Italiae: 134 (1856). – Syn.: *Caloplaca velana* var. *oasis* (A.Massal.) Zahlbr. in Catal. Lich. Univ. 7: 197 1931). – *Placodium oasis* (A.Massal.) Szatala in Sydowia 14: 322 (1960).

Host: *Verrucaria* spec. (thallus)

Europe, **Albania**: Central Albania, Tiranë distr., on the mountain Dajt E above the town Tiranë, on the saddle Qafa e Qershisë E above the restaurant "Panorama", 41°22'25"N / 19°54'40"E, *c*. 1250 m alt.; scattered limestone outcrops in clearing of deciduous forest, on vertical rock faces.

Note: In the protologue only lichenicolous growth on crustose lichens is mentioned. In the comment Massalongo (l.c.: 135) indicates that the host frequently should be *Hymenelia coerulea* (sub *Hymenelia hiascens*). However this high altitude species is unlikely to occur in the surroundings of the two villages near Verona representing the syntype localities.

20. VIII. 2007 leg. J. Hafellner (71131), det. J. Hafellner
(excursion together with M. Tretiach, L. Muggia, M. Piccotto & J. Marka)

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

173. ***Caloplaca polycarpa*** (A.Massal.) Zahlbr.

in Österr. Bot. Z. 68: 317 (1919). – Bas.: *Callopisma aurantiacum* var. polycarpum A.Massal. in Symmicta Lichenol.: 31 (1850). – Syn.: *Callopisma polycarpum* (A.Massal.) A.Massal. in Sched. Criticae Lich. Exs. Italiae: 48 (1855). – *Gasparrinia polycarpa* (A.Massal.) Mérat in Bull. Soc. Bot. France 67: 196 (1920). – *Placodium polycarpum* (A.Massal.) Szatala in Ann. Hist.-Nat. Mus. Natl. Hung. 51:142 (1859).

Host: *Bagliettoa calciseda* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Grazer Bergland, Rote Wand *c*. 3 km E of the village Mixnitz, on the ridge facing SW along the upper edge of the cliffs exposed to the S, 47°19’45’’N / 15°24’ 05’’E, *c*. 1400 m alt., GF 8658/3; low outcrops of limestone, on inclined rock faces.

Note: Lichenicolous growth is not mentioned in the protologue.

30. X. 2005 leg. J. Hafellner (64546), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

174. ***Diploschistes muscorum*** (Scop.) R.Sant.

in Hawksworth et al., Lichenologist 12(1): 106 (1980). – Bas.: *Lichen muscorum* Scop., Fl. Carniolica 2: 365 (1772). – Syn.: *Diploschistes scruposus* subsp. *muscorum* (Scop.) Clauzade & Cl.Roux in Bull. Soc. Bot. Centre-Ouest 7: 825 (1985).

Host: *Cladonia pyxidata* agg. (thallus)

North America, **U.S.A.**: Alaska, Yukon-Koyukuk Census Area, Brooks Range, Endicott Mountains, Sukakpak Mountain, foothills on the W side, 67°35’35’’N / 149°46’00’’W, *c*. 580 m alt.; boulders of calcareous sandstone in open boreal forest, on soil.

Note: Lichenicolous growth is not mentioned in the protologue.

21. VIII. 2010 leg. J. Hafellner (79970), det. J. Hafellner
(excursion together with T. Spribille, L. Muggia and C. Hampton-Miller)

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

175. ***Epilichen scabrosus*** (Ach.) Clem.

in Gen. Fungi: 174 (1909). – Bas.: *Lecidea scabrosa* Ach. in Methodus Lich.: 48 (1803). – Syn.: *Buellia scabrosa* (Ach.) A.Massal. in Geneac. Lich.: 20 (1854). – *Karschia scabrosa* (Ach.) Rehm in Rabenh. Krypt.-Fl., Pilze, 2. ed., 1(3): 350 (1890). – *Catillaria scabrosa* (Ach.) Boistel in Nouv. Fl. Lich. 2: 197 (1903).

Host: *Baeomyces placophyllus* (thallus)

Europe, **Austria**: Salzburg, Eastern Alps, Pinzgau, Hohe Tauern, Glockner-Gruppe, northern slopes of Kitzsteinhorn, *c*. 0.5 km W of the Bundessportheim, 47°12’35’’N / 12°41’10’’E, *c*. 2450 m alt., GF 8742/3; open alpine vegetation over Ca-rich greenschist, on soil.

Note: The type host of *Epilichen scabrosus* is *Baeomyces rufus* (sub *B*. *rupestris*).

27. VIII. 1996 leg. J. Hafellner (37988), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

176. ***Lecanora printzenii*** Pérez-Ortega, Vivas & Hafellner **Paratype**

in Lumbsch et al., Phytotaxa 18: 76 (2011).

Host: *Umbilicaria* spec*.* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Niedere Tauern, Seckauer Tauern, Großer Ringkogel NW of the town Knittelfeld, slopes exposed to the NE above of the Sundlsee, 47°19’30’’N / 14°37’30’’E, *c*. 2060 m alt., GF 8653/4; boulderfield and cliffs, gneiss, on vertical rock faces of cliffs exposed to the N.

Note: The type host of *Lecanora printzenii* is *Umbilicaria cylindrica*.

15. VIII. 2001 leg. J. Hafellner (75167), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

177. ***Lecidea verruca*** Poelt

in Mitt. Bot. Staatssamml. München 4: 187 (1961).

Host: *Aspicilia simoensis* (thallus)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Stubalpe, Ameringkogel massiv E of the village Obdach, Weißenstein mountain, on ridge exposed to the S above of Melcheben, E above the mountain hut Weißensteinhütte, 47°03'35''N / 14°48'05''E, *c*. 1900 m alt., GF 8954/2, stone-wall separating alpine pastures, on boulders of gneiss.

Note 1: The host remained undetermined when the species was described ("ein dünner grauer Thallus, der gut zu einer *Aspicilia*-Art gehören könnte"). But in the meantime it became evident that the species is restricted to *Aspicilia* species.

Note 2: Poelt (Plant Syst. Evol. 135: 81–87, 1980) concluded from extensive field observations that *Lecidea verruca* is a dioecious species.

3. IX. 2005 leg. J. Hafellner (65145) & A. Hafellner, det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

178. ***Ramboldia insidiosa*** (Th.Fr.) Hafellner

in Hafellner & Türk, Carinthia II 185/105: 624 (1995). – Bas.: *Lecidea insidiosa* Th.Fr. in Bot. Notiser 1867: 153 (1867).

Host: *Lecanora varia* (thallus, apothecia)

Europe, **Austria**: Steiermark (Styria), Eastern Alps, Steirisches Randgebirge, Koralpe NE of the town Wolfsberg, Bärofen, summit area, shortly W of the summit cross, 46°53'25''N / 14°59'30''E, *c*. 1710 m alt., GF 9155/2; open subalpine coniferous forest, on wood of thick branches of a snag (*Larix decidua*).

Note: *Lecanora varia* is the type host of *Ramboldia insidiosa*. *Lecanora* "*subfusca*" is mentioned as further host in the protologue, but this needs confirmation.

25. VI. 2006 leg. J. Hafellner (70795) & L. Muggia, det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

179. ***Rimularia insularis*** (Nyl.) Rambold & Hertel

in Hertel, Lecideaceae exs. 8: 9 (1985). – Bas.: *Lecidea insularis* Nyl. in Bot. Notiser 1852: 177 (1852). – Syn.: *Lecidella insularis* (Nyl.) Körb. in Syst. Lich. Germaniae: 239 (1855).

Host: *Lecanora bicincta* (thallus)

Europe, **Austria**: Kärnten (Carinthia), Eastern Alps, Steirisches Randgebirge, Koralpe E of the town Wolfsberg, Burgstallofen, 46°48’35’’N / 14°56’15’’E, *c*. 1450 m alt., GF 9155/4; cliffs of eclogite-amphibolite surrounded by subalpine coniferous forest on slope exposed to the W, on inclined rock faces.

Note: The type host of *Rimularia insularis* is *Lecanora rupicola*.

29. VII. 2009 leg. J. Hafellner (74531), det. J. Hafellner

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

Hafellner J. 2013: Lichenicolous Biota (Nos 151–180). - Fritschiana 76: 47–68.

180. ***Scutula dedicata*** Triebel, Wedin & Rambold

in Symbolae Bot. Upsal. 32(1): 327 (1997).

Host: *Peltigera didactyla* (thallus, on both sides)

Europe, **Czech Republic**: Southern Bohemia, Jihočeský, foothills of Šumava Mountains, Prachatice, Husinec, Výrov, 49°03’00’’N / 13°59’50’’E, *c*. 500 m alt.; stony balk, on soil.

Note 1: *Peltigera didactyla* is the type host of *Scutula dedicata*.

Note 2: The distributed material contains only the anamorphic state (“*Karsteniomyces*”-state).

2. VI. 2010 leg. J. Vondrák (7853) & O. Merkulova, det. J. Vondrák

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

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ISSN 1024-0306