

Dupla Graecensia Lichenum (2011, nos 681–800)

Walter OBERMAYER*

OBERMAYER W. 2011: Dupla Graecensia Lichenum (2011, nos 681–800). - Fritschiana (Graz) 69: 17–53. - ISSN 1024-0306.

Abstract: Dupla Graecensia Lichenum (2011, nos 681–800) comprises 120 collections of lichen duplicates from Albania (Tiranë district), Argentina (prov. Misiones; prov. Tierra del Fuego), Australia (New South Wales), Austria (Carinthia; Lower Austria; Salzburg; Styria; Tirol; Upper Austria), Bulgaria, China (Tibet, prov. Xizang), Czech Republic, France (Rhône-Alpes), Germany (Bavaria; Saxony-Anhalt), Greece (Crete), Italy (Trentino–Alto-Adige; Veneto), Montenegro, Norway (Svalbard), Russia (Khabarovskiy Krai), Slovenia, Switzerland (Bern), U.S.A (Alaska; Idaho; Maine; Montana), and Uruguay (Canelones; Durazno; Maldonado; Montevideo; Rivera; Salto; Soriano). TLC-investigations were carried out for 27 lichenized taxa: *Alectoria lata*, *Bryoria fuscescens* (2x), *B. subcana*, *Chrysothrix candelaris*, *Cladonia ecmocyna*, *Cladonia macilenta*, *Cladonia macroceras*, *Dimelaena oreina*, *Lecanora thysanophora*, *Lecidella carpathica*, *Lepraria crassissima* (2x), *Lepraria lobificans*, *Lepraria rigidula*, *Melanelixia fuliginosa*, *Melanohalea exasperatula*, *Miriquidica garovaglii*, *Mycobilimbia epixanthoides*, *Pertusaria oculata*, *Pertusaria suboculata*, *Phlyctis argena*, *Protoparmelia badia*, *Rinodina alba*, *Stereocaulon symphycheilum*, and *Usnea intermedia*. Isotypes of *Caloplaca michelagoensis* and *Xanthoria coomae* as well as paratypes of *Lecanora schizochromatica* are distributed.

*Institut für Pflanzenwissenschaften, Karl-Franzens-Universität Graz,
Holteigasse 6, 8010 Graz, AUSTRIA, e-mail: walter.obermayer@uni-graz.at,
homepage: <http://www.uni-graz.at/walter.obermayer/index.html>

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 abbreviation: 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 abbreviation: 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.uni-graz.ac.at/walter.obermayer/dupl-graec.htm>. A downloadable PDF-file can be found under <http://www.uni-graz.at/walter.obermayer/dupla-graecensia-lichenum-2011.pdf>. Label texts originally drafted in a local language have been translated into English by the author.

I wish to thank all the collectors and keepers of (private and public) herbaria for their contributions, in particular Franz BERGER, Josef HAFELLNER, Josef HALDA, Siegfried HUNECK, Sergey KONDRATYUK, Helmut MAYRHOFER, Georg MIEHE, Héctor S. OSORIO, Zdeněk PALICE, Toby SPRIBILLE, Eva STRASSER, Roman

TÜRK, and Jan VONDRÁK. Thanks are also due to several colleagues, who helped with determinations: Josef HAFELLNER, Martin KUKWA, Helmut MAYRHOFER, Zdeněk PALICE, Toby SPRIBILLE, Tor TØNSBERG, and Jan VONDRÁK.

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681. *Acarospora* cf. *peliscypha* Th.Fr.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 11 km SW of Judenburg, W of Winterleitenhütte, SE-facing slopes between Kreiskogel and Speikkogel, 47°05'30"N, 14°33'30"E, grid number 8953/1, 1900–2000 m above sea level, amphibolitic outcrops between tall forbs, on vertical to overhanging rock surfaces, 10 July 1998, collected and determined by Walter Obermayer (07170).

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682. *Alectoria lata* (Taylor) Linds.

RUSSIA, Khabarovskiy Krai, De Kastri-Lazarev route, Vidanovo wetland complex, swampy valley of the River Psyu, 1.7 km E of Vidanovo, 6.5 km W of the seashore, 51°59.759'N, 141°15.000'E, 3 m above sea level, large Sphagnum bog with low Larix scrub, on bark of *Larix*, 16 July 2009, collected and determined by Toby Spribille (30847) [excursion together with Lidiya Yakovchenko, Christian Printzen, Birgit Kanz and Lena Malashkina].

Note: TLC (specimen [including apothecium] in GZU tested): Usnic acid, barbatic acid (maj.), 4-O-demethylbarbatic acid (tr.), alectoronic acid (maj.), unknown (3/5/3, min.). - Location and habitat data in Russian: Дорога Де-Кастри-Лазарев, болотный комплекс в окр. с. Виданово, заболоченная долина р. Псю, около 1,7 км по воздуху восточнее с. Виданово, 6,5 км по воздуху западнее от побережья. Марь с редкими низкими лиственницами.

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683. *Arthothelium ruanum* (A.Massal.) Körb.

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 10 km NE of Graz, between the villages Schillingsdorf and Greith, 300 m S of the farmhouse Grubbauer, near the spring of the brook Greith-Bach, 47°06'54"N, 015°33'00"E, grid number 8859/3, 530 m above sea level, mixed forest with *Larix decidua*, *Fagus sylvatica*, *Quercus*, and *Picea abies*, on stem bark of young *Fraxinus excelsior*, 12 December 2010, collected and determined by Walter Obermayer (12119).

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684. **Aspicilia candida** (Anzi) Hue

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Aravis Range, 4.5 km NW of the centre of Sallanches, 45°57'25"N, 006°35'07"E, 1600 m above sea level, ESE-exposed cliffs of calcareous schist, on strongly inclined rock faces, 17 August 2011, collected and determined by Walter Obermayer (12195).

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685. **Bacidina arnoldiana** (Körb.) V.Wirth & Vězda (Syn.: *Bacidia arnoldiana*)

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 10 km NE of Graz, between the villages Schillingsdorf and Greith, 300 m S of the farmhouse Grubbauer, near the spring of the brook Greith-Bach, 47°06'54"N, 015°33'00"E, grid number 8859/3, 530 m above sea level, mixed forest with *Larix decidua*, *Fagus sylvatica*, *Quercus*, and *Picea abies*, on stem bark of young *Fraxinus excelsior*, 12 December 2010, collected by Walter Obermayer (12118), determined by Josef Hafellner and Walter Obermayer.

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686. **Bellemerea subsorediza** (Lynge) R.Sant.

U.S.A., Alaska, White Pass, notch ca. 200 m S of where the railroad crosses the U.S.A./Canada border, S end of Pumphouse Pond, along the railroad, 59°37.230'N, 135°08.363'W, 881 m above sea level, alpine vegetation, on disturbed rocks, 9 September 2008, collected and determined by Toby Spribille (29288, ex herbario KLGO 53004).

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687. **Biatora flavopunctata** (Tønsberg) Hinteregger & Printzen

U.S.A., Montana. Missoula County, Mission Mountains, Jocko Falls, Lost Sheep Lake Trailhead, 47°13.876'N, 113°48.130'W, 1331 m above sea level, mixed mid-montane conifer forest (*Larix occidentalis*, *Pseudotsuga menziesii*), on *Vaccinium membranaceum* stalks, 25 July 2006, collected and determined by Toby Spribille (20617) [excursion together with Tim Wheeler and Sergio Pérez-Ortega].

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688. **Bryoria cf. subcana** (Nyl. ex Stizenb.) Brodo & D.Hawksw.

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen, Grebenzen, 7.7 km SW of Neumarkt, 700 m S of Grebenzen-Schutzhaus, trail of the ski lift, 47°02'45"N, 014°19'55"E, grid number 8951/4, 1750–1800 m above sea level, near the man-made timber line, on twigs of *Larix decidua* (exposed to sunlight), 12 August 2010, collected and determined by Walter Obermayer (11993).

Note: Thallus Pd+ rapidly turning red (TLC: fumarprotocetraric acid [maj.], protocetraric acid [tr.], confumarprotocetraric acid [tr.]), basal parts blackened, soralia partly fissure-like, partly tuberculate, pseudocyphellae present (at least on more basal parts of thicker branches). Other Bryorias might be intermixed. According to Myllys et al. (2011, Lichenologist 43: 617–638) DNA data suggest, that *Bryoria subcana* might be conspecific with *B. fuscescens*, *B. chalybeiformis*, *B. lanestris*, and even with *B. implexa* and *B. capillaris*.

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689. **Bryoria fuscescens** (sensu latissimo)

AUSTRIA, Steiermark (=Styria; border area to Salzburg), Niedere Tauern, Schladminger Tauern, 24 km NW of Murau, Preber, path from Grazer Hütte to the summit of Preber, ridge area between Bockleiteneck and Roßscharte, 47°12'53"N, 013°52'03"E, grid number 8749/3, 2450–2530 m above sea level, alpine pastures with siliceous rocks along a windblown ridge, on ground (amongst mosses and other lichens), 15 August 2006, collected and determined by Walter Obermayer (11171).

Note: Partly intermixed with *Gowardia nigricans*, *Alectoria ochroleuca* and probably other Bryorias. Thallus Pd+ red (TLC: Fumarprotocetraric acid [maj.], protocetraric acid [tr.], confumarprotocetraric acid [tr.]), partly with short lateral branches, pseudocyphellae partly distinct, fusiform or slit-like, depressed, soralia sparse. The specimens (formally determined as *Bryoria chalybeiformis*, but with fumarprotocetraric acid also in the esorediate thallus parts), could represent a ground inhabiting form of *Bryoria americana*.

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690. *Bryoria fuscescens* (sensu lato)

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10 km WNW of Obdach, road from Schmelz to Winterleitenhütte, 47°05'45"N, 014°34'40"E, grid number 8953/1, 1650 m above sea level, close to a forest road in a altimontane forest with *Picea abies* and *Pinus cembra*, on twigs of *Picea abies* (SSE-exposed), 15 May 2002, collected and determined by Walter Obermayer (11351).

Note: Partly with rather conspicuous, big, white (but also partly black pigmented or even isidiate) soralia. TLC: fumarprotocetraric acid (maj.), protocetraric acid (tr.); soralia always Pd+ orange, esorediate parts of the thallus partly Pd-, basal areas with some slit-like pseudocyphellae. Other *Bryoria*s might be intermixed. According to Myllys et al. (2011 Lichenologist 43: 617–638) DNA-data suggest, that *Bryoria fuscescens* might be conspecific with *B. subcana*, *B. chalybeiformis*, *B. lanestris*, and even with *B. implexa* and *B. capillaris*.

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691. *Bryoria smithii* (Du Rietz) Brodo & D.Hawksw.

AUSTRIA, Salzburg, Hohe Tauern, Venediger Group, 4.8 km SSW of Neukirchen am Großvenediger, Obersulzbachtal, between Blausee and Hopffeldboden, 47°13'08"N, 012°14'55"E, grid number 8739/3, 970 m above sea level, on *Picea abies*, 1 November 2010, collected by Roman Türk (48020), determined by Walter Obermayer (2011).

Note: *Bryoria smithii* (Pd-, with many short lateral, clustered spinules and with soralia) is partly (e.g. in GZU) intermixed with two other bicolorous taxa, namely *B. bicolor* (Pd+ red, densely anisotomically branched, with [not clustered] spinules and without soralia) and with *Bryoria tenuis* (infrequently isotomic-dichotomously branched, Pd+ red, almost without lateral spinules and without soralia). Additionally, *Bryoria nadvornikiana* is also partly intermixed.

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692. *Buellia disciformis* (Fr.) Mudd

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, Obertal S of Schladming, between Hopfriesen and the inn Tauerngold, 47°19'05"N, 13°41'20"E, grid number 8648/3, 1060 m above sea level, *Alnus incana* trees near the brookside, on *Alnus incana*, 25 August 2001, collected and determined by Walter Obermayer (11567).

Note: One apothecium of every single specimen examined: Two-celled spores 16–24 µm long (older stages sometimes with 2 or 3 septa), hymenium with oil droplets, K+ yellowish-brown thallus. At least the specimen in GZU is intermixed with another buellioid species (*Buellia erubescens* s.l.: Spores 12–15 x 7.5 µm; hymenium without oil droplets, thallus K+ reddish).

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693. **Calicium adpersum Pers.**

GERMANY, Baden-Württemberg, 32 km SW of Würzburg, Taubertal, 2.7 km SW of the centre of Lauda (urban district of Lauda-Königshofen), 49°33'16"N, 009°40'14"E, grid number 6424/1, 375 m above sea level, on bark of *Quercus robur*, 4 April 2009, collected by Roman Türk (44957), determined by Walter Obermayer, duplum in GZU confirmed by Leif Tibell (2009).

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694. **Caloplaca austrocitrina Vondrák et al.**

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, urban area of Graz, Lenaugasse, 500 m SW of the pond Hilmteich, 47°04'50"N, 015°27'26"E, grid number 8958/2, 375 m above sea level, on mortar of a garden wall (35 cm above asphalt surface), 02 April 2010, collected by Walter Obermayer (11926), determined by Jan Vondrák (2011).

Note: Determination of GZU sample by Jan Vondrák, based on molecular data.

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695. **Caloplaca bassiae (Willd. ex Ach.) Zahlbr.**

AUSTRALIA, New South Wales, S of Batemans Bay, between Mossy Point and Broulee, 38°45'S, 150°13'E, rock outcrops on the ocean coast, on phyllitic rocks, 29 January 2004, collected by Sergey Kondratyuk (20483) and Ingvar Kärnefelt, determined by Sergey Kondratyuk (2008).

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696. **Caloplaca cerina (Ehrh. ex Hedw.) Th.Fr.**

AUSTRIA, Tirol, Northern Limestone Alps, Karwendel, 12.2 km NNW of the centre of Innsbruck, 7 km ESE of Scharnitz, Hinterautal, surrounding area of the lake Kotwaldsee, 47°22'41"N, 011°21'26"E, grid number 8634/1, 1070 m above sea level, on bark of *Salix*, 13 September 2008, collected by Roman Türk (44065b) and Heidelinde Sofie Pfleger, determined by Roman Türk.

Note: Some specimens (e.g. in GZU) show two morphotypes.

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697. **Caloplaca michelagoensis** Elix et al.

– isotype –

AUSTRALIA, New South Wales, W vicinity of Michelago township (near railway bridge), 35°42'35.7"S, 149°10'03.3"E, 700 m above sea level, on bark of roadside *Eucalyptus* trees, 1 January 2004, collected and determined by Sergey Kondratyuk (20495).

Note: Holotype in CANB.

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698. **Caloplaca ochraceofulva** (Müll.Arg.) Jatta

URUGUAY, dept. Maldonado, 28 km W of the centre of Maldonado, Punta Colorado, 34°55'S, 55°16'W, 0–5 m above sea level, on rocks in a meadow (aerohaline zone), 28 November 1960, collected and determined by Héctor S. Osorio (4256), duplum confirmed by Ove Alborn (1989).

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699. **Caloplaca xanthobola** (Kremp.) Zahlbr.

URUGUAY, dept. Durazno, Rio Negro, 1 km E of the railway station, 'km 329', 32°26'S, 055°24'W, along the riverside, on rocks (locally common), 24 February 1974, collected and determined by Héctor S. Osorio (7015), confirmed by Clifford Wetmore (III.2007).

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700. **Candelaria concolor** (Dicks.) Stein

AUSTRIA, Steiermark (=Styria), Dachsteingruppe, 4.4 km NNW of Schladming, Ramsau, 440 m N of the church of Ramsau-Ort, farmhouse Feldlhof, 47°25'35"N, 013°39'10"E, grid number 8547/4, 1180 m above sea level, open meadows, on bark of main stems of *Syringa vulgaris*, 16 February 2010, collected and determined by Walter Obermayer (11875).

Note: Specimen in GZU with apothecia.

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701. **Candelariella biatorina** M. Westberg

U.S.A., Idaho, Boundary County, Selkirk Mountains, Mount Roothaan trailhead, 48° 36.471'N, 116°44.088'W, 1860 m above sea level, edge of open S-facing slope, high montane/subalpine parkland, on branches of *Abies lasiocarpa*, 18 July 2004, collected and determined by Toby Spribille (15236) [excursion together with Viktoria Wagner].

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702. **Candelariella vitellina** (Hoffm.) Müll. Arg.

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 8.2 km SW of Hermagor, 2.4 km ENE of Nassfeldpass, S-facing slopes of Gartnerkofel, 50 m below the summit, 46°34'15"N, 013°18'12"E, 2050 m above sea level, alpine meadow with calcareous outcrops (Triassic limestone), on twigs of *Rhodothamnus chamaecistus*, 01 September 2007, collected and determined by Walter Obermayer (12259).

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703. **Candelariella xanthostigma** (Ach.) Lettau

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Östliches Grazer Bergland, Schöckl, 2.5 km N of Sankt Radegund, 250 m S of Schöcklkreuz, beginning of the forestry road Römerweg, 47°12'09"N, 015°29'07"E, grid number 8758/4, 1115 m above sea level, edge of a forest, on bark of *Larix decidua*, 28 November 2010, collected and determined by Walter Obermayer (12114).

Note: Richly fruiting material.

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704. **Catolechia wahlenbergii** (Flot. ex Ach.) Körb.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Schladminger Tauern, 8.7 km NNW of Schöder, 1.3 km N of the summit Eisenhut, NE of the lake Unterer Zwiefelsersee, 47°14'51"N, 014°03'02"E, grid number 8750/3, 1841 m above sea level, rock walls near the lake, on decaying bryophytes, 10 November 2011, collected by Helmut Mayrhofer (18180) and Michaela Sebernegg, determined by Helmut Mayrhofer.

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705. **Chrysothrix candelaris** (L.) J.R.Laundon

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), basal area of Grebenzen, 2.3 km SSW of the centre of Neumarkt, 800 m E of the farmhouse Tschaggober, 47°03'12"N, 014°25'01"E, grid number 8952/2, 985 m above sea level, S-exposed rock faces (in a forest area with *Picea abies* and *Larix decidua*), on small stump, 26 December 2010, collected and determined by Walter Obermayer (12134).

Note: TLC: Specimen in CANB, GZU, M, and UPS with calycin (maj.) and traces of pinastric acid, specimen in NY with pinastric acid (maj.) and traces of calycin, unknown substance (4[-5]/6/5) present in all specimens.

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706. **Circinaria caesiocinerea** (Nyl. ex Malbr.) A.Nordin et al. (Syn.: *Aspicilia caesiocinera*)

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, 3.5 km SSE above Chamonix, 500 m S of the cable car station at Plan de l'Aiguille, 45°53'48"N, 006°53'14"E, 2300–2350 m above sea level, slopes and ridge of a border moraine, alpine vegetation with siliceous boulders, on inclined rock surface, 18 August 2011, collected and determined by Walter Obermayer (12292).

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707. **Cladonia ecmocyna** Leight.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10,5 km W of Obdach, path from Großer Winterleitensee via Ochsenboden to Kreiskogel, 47°05'05"N, 14°33'35"E, grid number 8953/1, 1970 m above sea level, alpine meadows with boulders, on ground, 16 May 2002, collected and determined by Walter Obermayer (10181).

Note: TLC (all specimens tested): Atranorin, fumarprotocetraric acid, protocetraric acid (min.).

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708. **Cladonia macilenta** Hoffm.

URUGUAY, dept. Canelones, Parque National 'F.D.Roosevelt', 34°51'S, 056°02'W, on bark of *Eucalyptus robusta*, 18 July 1972, collected and determined by Héctor S. Osorio (6843).

Note: TLC (specimen in GZU tested): Thamnic acid, barbatic acid, didymic acid, unknown terpenoids.

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709. **Cladonia macroceras** (Delise) Hav.

AUSTRIA, Kärnten (=Carinthia), Steirisches Randgebirge, Stubalpe, Lichtengraben N of St.Leonhard im Lavanttal, 1 km ENE of the spring Goldbründl, orographically right situated slopes short above the bottom of the valley near a bridge, 47°00' 25"N, 014°48'30"E, grid number 8954/4, 1140 m above sea level, boulder field (gneiss and mica slate) with groups of *Picea abies*, on humus layer between bryophytes, 2 July 2006, collected by Josef Hafellner (66347) and Lucia Muggia, determined by Josef Hafellner.

Note: TLC: Fumarprotocetraric acid (maj.), protocetraric acid (tr.), confumarprotocetraric acid (tr.).

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710. **Cladonia mitis** Sandst.

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 17.5 km W of Köflach, 2 km SW of Salzstiegelhaus (Hirscheeggertal), near the cross on a lower peak 0.5 km SE of the mountain Speikkogel, 47°03'20–25"N, 14°51'05–10"E, grid number 8955/1, 1940–1960 m above sea level, alpine meadows with amphibolitic (and gneissic) boulders, on ground, 24 October 2004, collected and determined by Walter Obermayer (10501).

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711. **Collema auriforme** (With.) Coppins & J.R.Laundon

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Plankogel S above Gasen, 10 km W of Birkfeld, N-facing slopes near the historical mining area, 47°21'40"N, 015°33'35"E, grid number 8659/1, 1300 m above sea level, E-exposed, small rocks of paleozoic calcareous schist in open deciduous forest, on bryophytes and plant remnants, 13 November 2010, collected by Josef Hafellner (76705) and Lucia Muggia, determined by Josef Hafellner.

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712. **Collema flaccidum** (Ach.) Ach.

ALBANIA, Central Albania, Tiranë district, on the mountain Dajt, E above the town Tiranë, between the restaurant Panorama and the saddle Qafa e Qershisë, 41° 22'15"N, 019°55'20"E, 1100 m above sea level, deciduous forest over limestone (W-exposed slopes), on bark of *Acer opalus*, 20 August 2007, collected and determined by Josef Hafellner (71108) [excursion together with Mauro Tretiach, Lucia Muggia, M. Piccoto and J. Marka].

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713. **Cystocoleus ebeneus** (Dillwyn) Thwaites

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10 km WNW of Obdach, road from Schmelz to Winterleitenhütte, 47°05'45"N, 014°34'40"E, grid number 8953/1, 1650 m above sea level, close to a forestry road in a altimontane forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on base of amphibolitic rocks (vertical faces), 14 November 2010, collected and determined by Walter Obermayer (12088).

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714. Dimelaena oreina (Ach.) Norm.
(chemotype IV)

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, 3.1 km SE above Chamonix, 250 m SSE of the cable car station at Plan de l'Aiguille, 45°54'04"N, 006°53'15"E, 2300 m above sea level, alpine vegetation with siliceous boulders and outcrops, on rocks, 18 August 2011, collected by Helmut Mayrhofer (18156) and Regine Stordeur, determined by Helmut Mayrhofer and Walter Obermayer.

Note: TLC (all specimens tested): Usnic acid (maj.), fumarprotocetraric acid (maj.), protoce-traric acid (min.), gyrophoric acid (min.); one specimen additionally contains chemotype I (lacking gyrophoric acid).

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715. Diplotomma hedinii (H.Magn.) P.Clerc & C.Roux

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Aravis Range, 4.5 km NW of the centre of Sallanches, 45°57'25"N, 006°35'07"E, 1600 m above sea level, ESE-exposed cliffs of calcareous schist, on strongly inclined and vertical rock faces, 17 August 2011, collected and determined by Walter Obermayer (12196).

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716. Flavocetraria minuscula (Elenkin & Savicz) Ahti et al.

RUSSIA, Khabarovskiy Krai, Bureinskiy Zapovednik, upper reach of the Pravaya Bureya River, 25 km SE of Sofiysk, Tsarskaya Doroga, 250 m NE of patrol cabin 'Novaya Medvezhka', 52°08.000'N, 134°17.654'E, 861 m above sea level, boulders under *Picea jezoensis* forest, on soil over boulder, 7 August 2009, collected and determined by Toby Spribille (32030) [excursion together with Lidiya Yakovchenko].

Note: Specimens in GZU, M, NY and UPS with a few sorediate thalli. - Location and habitat data in Russian: Буреинский заповедник, верховья р. Правая Бурея, Царская дорога, 25 км по воздуху юго-восточнее с. Софийск, примерно в 250 м северо-восточнее кордона "Новая Медвежка". Курумный ельник на склоне.

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717. **Flavoparmelia caperata** (L.) Hale

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), basal area of Grebenzen, 2.3 km SSW of the centre of Neumarkt, 800 m E of the farmhouse Tschaggober, 47°03'12"N, 014°25'01"E, grid number 8952/2, 985 m above sea level, S-exposed rock faces (in a forest area with *Picea abies* and *Larix decidua*), on strongly inclined faces of quartzitic phyllites (partly covered with bryophytes), 26 December 2010, collected and determined by Walter Obermayer (12135).

Note: All specimens fertile.

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718. **Fuscopannaria praetermissa** (Nyl.) M.Jørg.

AUSTRIA, Steiermark (=Styria), Nordalpen (=Northern Limestone Alps), Ennstaler Alpen, Gesäuseberge E of Admont, Großer Buchstein, upper part of N-facing slopes, shortly E of the summit, 47°36'37"N, 014°35'50"E, grid number 8353/4, 2200 m above sea level, cushions with *Carex firma* and *Dryas octopetala* between limestone outcrops, on remnants of bryophytes and other plants, 19 June 2005, collected by Josef Hafellner (67875) and Angela Hafellner, determined by Josef Hafellner.

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719. **Haematomma nemetzii** J.Steiner

GREECE, Crete, Nomós Lassithiou, along the road from Sitanos to Karidi, 0.6 km E of Sitanos, 35°07'21"N, 026°09'45"E, 660 m above sea level, on sheltered vertical to overhanging surface of a large siliceous boulder close to the ground, 9 September 2009, collected and determined by Helmut Mayrhofer (18109).

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720. *Hypogymnia physodes* (L.) Nyl.

GERMANY, Bayern (=Bavaria), Böhmerwald (=Šumava), Municipality Mauth, Finsterau, 300-500 m NW of the pond Reschbach Klause, at the frontier with the Czech Republic, 48°58'00"N, 013°32'53"E, 1230 m above sea level, dead spruce forest, on bark of dead *Picea abies*, 24 November 2010, collected by Jan Vondrák (8118) and V. Pouska, determined by Jan Vondrák.

Note: Richly fruiting material!

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721. *Hypogymnia nikkoensis* (Zahlbr.) Rass.

RUSSIA, Khabarovskiy Krai, De Kastri-Lazarev route, Vidanovo wetland complex, swampy valley of the River Psyu, 1.7 km E of Vidanovo, 6.5 km W of seashore, 59.759'N, 15.000'E, 3 m above sea level, large *Sphagnum* bog with low *Larix* scrub, on bark of *Larix* (in a bog), 16 July 2009, collected and determined by Toby Spribille (30852) [excursion together with Lidiya Yakovchenko, Christian Printzen, Birgit Kanz and Lena Malashkina].

Note: Location and habitat data in Russian: Дорога Де-Кастри-Лазарев, болотный комплекс в окр. с. Виданово, заболоченная долина р. Псю, около 1,7 км по воздуху восточнее с. Виданово, 6,5 км по воздуху западнее от побережья. Марь с редкими низкими лиственницами.

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722. *Hypogymnia pulverata* (Nyl.) Elix

RUSSIA, Khabarovskiy Krai, Bogorodskoe-De Kastri route, 200 m N of junction to village of Savinskoe, 2.7 km E of Amur River bank, 52°09.959'N, 140°24.602'E, 64 m above sea level, *Abies nephrolepis*-*Picea jezoensis* forest with *Equisetum* spp., near stream, on bark of *Larix*, 19 July 2009, collected and determined by Toby Spribille (31041) [excursion together with Lidiya Yakovchenko, Christian Printzen, Birgit Kanz and Lena Malashkina].

Note: Location and habitat data in Russian: Дорога Богородское-Де-Кастри, 200 м до поворота на с. Савинское, 2,7 км восточнее берега Амура. Приручевой пихтово-еловый хвощевой разнотравный лес.

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723. **Lasallia pustulata** (L.) Mérat

AUSTRIA, Niederösterreich (=Lower Austria), Bohemian Massif, NE of the centre of Gmünd (close to the border to the Czech Republic), between Grillenstein and Großeibenstein, Blockheide, 48°46'51.88"N, 014°59'41.52"E, grid number 7255/2, 500 m above sea level, mixed forest with big erratic boulders ('Restlinge'), on ESE-exposed, steep faces of a granitic boulder, 27 September 2009, collected and determined by Walter Obermayer (11815).

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724. **Lecanora phaeostigma** (Körb.) Almb.

GERMANY, Bayern (=Bavaria), Bayerischer Wald, Dreisesselberg, close to the national border of Germany, Czech Republic and Austria, 5 km east of Neu-reichenau, 48°46.617'N, 013°48.167'E, 1200 m above sea level, W-facing slope in natural *Picea abies* forest, on snag, 26 August 2009, collected by Toby Spribille (32108) and Viktoria Wagner, determined by Zdeněk Palice.

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725. **Lecanora schizochromatica** Pérez-Ortega et al.

– paratype –

U.S.A., Montana, Flathead County, Salish Mountains, near confluence of Lime and Magnesia Creeks, Collins Ranch, 48°38.793'N, 114°53.180'W, 1010 m above sea level, on twigs of *Pinus ponderosa*, 20 July 2006, collected and determined by Toby Spribille (20252) and Sergio Pérez-Ortega.

Note: Partly associated species: *Bryoria lanestris*, *Hypogymnia imshaugii*, *H. physodes*, *Kaernefeltia merrillii*, *Lecanora* aff. *circumborealis*, *Tuckermanopsis chlorophylla*, *Ramboldia gowardiana*, *Schaereria parasemella*, *Vulpicida canadensis*.

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726. **Lecanora thysanophora** R.C.Harris

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 10.8 km NE of the centre of Graz, 2 km SSE of Kumberg, 500 m W of Bachwirt, 47°08'35"N, 015°32'30"E, grid number 8859/3, 450 m above sea level, *Fraxinus-Carpinus-Picea* trees along a brook, on *Carpinus betulus*, 26 March 2006, collected by Walter Obermayer (11899a), determined by Tor Tønsberg (2010).

Note: TLC: Usnic acid (maj.), zeorin (maj.), atranorin (tr.), unknown spot, strongly blue-white in UV(366) after sulfuric acid: 6/5-6/6).

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727. **Lecidea fuscoatra** (aggregate)

GERMANY, Sachsen-Anhalt (=Saxony-Anhalt), 5.6 km NNW of the centre of Sangerhausen, between Morungen and Wettelrode, nature reserve Mooskammer, 51°30'56"N, 011°15'11"E, grid number 4433/4, 290 m above sea level, mine pile of copper schist, on schist, 24 August 1986, collected by Siegfried Huneck (s.n.), determined by Peter Scholz (1999).

Note: The thalli of the specimens are greyish (almost without a brownish tinge).

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728. **Lecidella carpathica** Körb.

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, 10.6 km NE of the centre of Sallanches, 1.6 km NE of the cable car station of Les Grandes Platières, W-facing slopes of Tête Pelouse, 45°59'51"N, 006°43'55"E, 2370 m above sea level, cliffs of clay shale (partly with low content of calcium) in alpine pasture, on vertical and overhanging rock faces, 19 August 2011, collected and determined by Walter Obermayer (12262).

Note: TLC: Thuringione.

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729. *Lepraria crassissima* (Hue) Lettau

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, Oberes Gailtal, 1.8 km SW of Mauthen, Mauthner Klamm, 46°39'15"N, 012°59'05"E, grid number 9343/2, 740 m above sea level, rocky gorge area with limestone cliffs, on vertical faces of limestone, 18 July 2007, collected and determined by Walter Obermayer (12182).

Note: TLC (all specimens tested): Divaricatic acid (major), nordivaricatic acid (submajor), zeorin (traces). The surface of granules show the typical C+ rose-red reaction, the well developed, white medulla is C-. Note that *Lepraria crassissima* is treated here in the sense of SAAG et al. (2009, Lichenologist 41: 25–60), who describe the thallus as partly folded, membranous to cottony with a thick white medulla.

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730. *Lepraria crassissima* (Hue) Lettau

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm NW of Weiz, orographically right brookside, below Schachen, along Lehbauersteg, 47°14'10"N, 015°33'10"E, grid number 8759/3, 540 m above sea level, calcareous rocks along the bluff, on bryophytes (in rock niches), 11 September 2009, collected by Josef Hafellner (41730), determined by Walter Obermayer (2010).

Note: TLC (all specimens tested): Divaricatic acid (major), nordivaricatic acid (submajor), zeorin (traces). The surface of granules show the typical C+ rose-red reaction, the well developed, white medulla is C-. Note that *Lepraria crassissima* is treated here in the sense of SAAG et al. (2009, Lichenologist 41: 25–60), who describe the thallus as partly folded, membranous to cottony with a thick white medulla.

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731. *Lepraria lobificans* Nyl.

AUSTRIA, Steiermark (=Styria), Grazer Bergland, N-facing slopes of Schöckl, 5 km ESE of Semriach, path from Schöcklkreuz to summit of Schöckl, 150 m NE of Jahndenkmal, 47°12'15"N, 15°28'10"E, grid number 8758/4, 1300 m above sea level, mixed forest with *Fagus sylvatica*, *Picea abies*, *Larix decidua* and *Sorbus aucuparia*, on bryophytes (NE-exposed vertical surface at a cave-entrance), 05 September 2005, collected and determined by Walter Obermayer (10941).

Note: TLC (all specimens tested): Atranorin, stictic acid, constictic acid, zeorin, fatty acid; each specimen intermixed with another leprose thallus of very fine granules containing green and orange patches (with anthraquinones).

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732. *Lepraria rigidula* (de Lesd.) Tønsberg

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10 km WNW of Obdach, road from Schmelz to Winterleitenhütte, 47°05'45"N, 014°34'40"E, grid number 8953/1, 1650 m above sea level, close to a forestry road in a high montane forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on stem bark of *Sorbus aucuparia* (overgrowing *Parmelia sulcata*), 14 November 2010, collected and determined by Walter Obermayer (12089).

Note: TLC (each specimen tested): Atranorin, nephrosteranic acid (traces of salazinic acid come from the 'host' *Parmelia sulcata*).

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733. *Leptogidium dendriscum* (Nyl.) Nyl.

CANADA, British Columbia, Upper Skeena River watershed, 18 km NW of Kispiox along Kispiox West Side Road, Date Creek area, 55°27.058'N, 127°51.122'W, 525 m above sea level, old-growth boreal rainforest, on twigs of *Tsuga heterophylla*, 27 August 2006, collected and determined by Toby Spribille (22646).

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734. *Leptogium saturninum* (Dicks.) Nyl.

ITALY, Trentino-Alto Adige, prov. Bolzano (=Südtirol), Val di Bráies (=Pragser Tal) S of Monguelfo (=Welsberg), ca. 0.5 km N of Lago di Bráies (=Pragser Wildsee), 46°42'20"N, 12°05'10"E, 1500 m above sea level, mixed coniferous forest, on stem bark of *Larix decidua* (NNW-exposed, 0.5–1.5 m trunk height), 4 September 2002, collected and determined by Walter Obermayer (12190).

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735. *Letharia vulpina* (L.) Hue

MONTENEGRO, East-Montenegro, Prokletije, Bogičevica mountain E of Plav, S of Hridzko Jezero, 42°34'09"N, 020°02'01"E, 2015 m above sea level, steep slopes, on wood (snag of *Pinus peuce*), 22 August 2009, collected and determined by Eva Strasser (54) and Helmut Mayrhofer.

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736. **Lobaria amplissima** (Scop.) Forssell

SLOVENIA, Snežnik, Lepi dol, 1.9 km SE of the village Leskova dolina, NNE of the summit of Veliki Snežnik, 45°36'35"N, 014°28'39"E, 890 m above sea level, edge of a forest (dominated by *Abies alba* and *Fagus sylvatica*), on peeling bark of a dead *Ulmus glabra* trunk, 17 June 2009, collected and determined by Helmut Mayrhofer (18108) and Toby Spribille.

Note: The present exsiccata was collected from the remnants of a dead *Ulmus glabra* tree with an already peeling bark. It was the last specimen of a former stand of about 15 trees which died between the years 2006 and 2009 due to the infection with *Ophiostoma novo-ulmi* or *O. ulmi*. The epiphytic species richness of the phorophyte was outlined by PRÜGGER (2005, *Studia Forestalia Slovenica* 122: 210–211), who reported 81 species from Lepi dol, out of which 51 were found on bark of (at that time living) trees of *Ulmus glabra*.

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737. **Lobaria linita** (Ach.) Rabenh.

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, 3.7 km SE above Chamonix, 800 m SSE of the cable car station at Plan de l'Aiguille, 45°53'50"N, 006°53'31"E, 2500 m above sea level, alpine vegetation with siliceous boulders, on ground, 18 August 2011, collected by Helmut Mayrhofer (18155) and Regine Stordeur, determined by Helmut Mayrhofer.

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738. **Lobaria pulmonaria** (L.) Hoffm.

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, valley of Angerbach E of Plöckenpass, 6 km S of Mauthen, 46°36'30"N, 012°59'00"E, grid number 9343/4, 1320 m above sea level, mixed forest (rich of conifers) at the valley floor, on bark of *Salix caprea*, 31 August 2007, collected and determined by Josef Hafellner (70556).

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739. **Lobarina scrobiculata** (Vain.) Nyl. ex Cromb.

CANADA, British Columbia, Goat Range, Kuskanax River, upstream of Nakusp Hot Springs, along short trail from hot springs to waterfall, 50°17.836'N, 117°40.735'W, 884 m above sea level, at waterfall, on branches of recently windthrown *Tsuga heterophylla*, 17 October 2009, collected and determined by Toby Spribille (33017).

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740. **Melanelixia fuliginosa** (Fr. ex Duby) O. Blanco et al.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10 km WNW of Obdach, road from Schmelz to Winterleitenhütte, 47°05'45"N, 014°34'40"E, grid number 8953/1, 1650 m above sea level, close to a forest road in a altimontane forest with *Picea abies* and *Pinus cembra* (with amphibolitic rocks), on stem bark (W-exposed) of *Picea abies*, 14 November 2010, collected and determined by Walter Obermayer (12091).

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

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741. **Melanelixia glabra** (Schaer.) O. Blanco et al.

AUSTRIA, Steiermark (=Styria), Dachsteingruppe, 4.4 km NNW of Schladming, Ramsau, 160 m SW of the church of Ramsau-Ort, 47°25'20"N, 013°38'08"E, grid number 8547/4, 1130 m above sea level, alley with *Acer pseudoplatanus*, on stem bark of *Acer pseudoplatanus* (W-exposed), 16 February 2010, collected and determined by Walter Obermayer (11880).

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742. **Melanelixia subaurifera** (Nyl.) O.Blanco et al.

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 9 km NE of the centre of Graz, Schaftal, Hollergraben, 47°06'51"N, 15°32'37"E, grid number 8859/3, 530 m above sea level, apple trees in meadow (close to the edge of a forest), on twigs of *Malus domestica*, 26 October 2010, collected and determined by Walter Obermayer (12064).

Note: Typical and conspicuous pseudocyphellae can be seen on the surface of young lobes, from which, later on, groups of isidia are developed. Note, that all members of the genus *Melanelixia* are said to have 'fenestrations' instead of 'pseudocyphellae', but the overall appearance of both structures under the binocular loupe is the same.

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743. **Melanohalea exasperatula** (Nyl.) O.Blanco et al.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10.6 km WNW of the centre of Obdach, path from Winterleitenhütte to Speikkogel, 200 m W of Winterleitenhütte, 47°05'39"N, 014°34'04"E, grid number 8953/1, 1785 m above sea level, close to the lakeside of Kleiner Winterleitensee, on stem bark of *Alnus alnobetula* (at 2–3 m height), 14 November 2010, collected and determined by Walter Obermayer (12092).

Note: TLC (specimen in GZU tested): No substances detected by TLC.

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744. **Miriquidica garovaglii** (Schaer.) Hertel & Rambold

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, Rappoldkogel NE above Hirschegger Sattel, west side of the summit, 47°05'00"N, 014°53'00"E, grid number 8955/1, 1920 m above sea level, cliffy rocks and big boulders of mica schist, on W-exposed, inclined rock faces, 10 August 2003, collected and determined by Josef Hafellner (65484).

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745. **Miriquidica garovaglii** (Schaer.) Hertel & Rambold

SWITZERLAND, Bern, Berner Alps, 10 km SW above Meiringen, 700 m E below the parking site of the pass area of Grosse Scheidegg, small valley at the bottom of the N-facing vertical cliffside of Wetterhorn, 500 m W of the glacier remnants, 46°39'15-20"N, 008°06'35–45"E, 1750–1850 m above sea level, outcrops and boulders of siliceous (partly slightly calcareous) schist in a subalpine pasture, on E-exposed vertical rock faces, 25 August 2006, collected and determined by Walter Obermayer (12187).

Note: TLC (each specimen tested once or twice): Miriquidic acid, stictic acid, constictic acid, menegazziaic acid (tr.).

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746. **Miriquidica leucophaea** (Flörke ex Rabenh.) Hertel & Rambold

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, Ameringkogel massif E of Obdach, S-facing slopes of Weißenstein, shortly below the summit, 47°03'55"N, 014°48'30"E, grid number 8954/2, 2100 m above sea level, small boulder area amongst dwarf-shrub heath, on gneissic rocks, 3 September 2005, collected and determined by Josef Hafellner (65182).

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747. **Multiclavula mucida** (Pers.) R.H.Petersen

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 6 km SW of the railway station of Kötschach-Mauthen, 3 km N of the pass area of Plöckenpass, 'In der Plaiken', 46°37'55"N, 012°57'05"E, grid number 9343/4, 1040 m above sea level, on decayed wood of *Abies alba* (lying on ground), 31 August 2007, collected and determined by Franz Berger (s.n.) and Franz Priemetzhofer.

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748. **Multiclavula mucida** (Pers.) R.H.Petersen

AUSTRIA, Salzburg, urban area of the town Salzburg, district Aigen, path from Schloß Aigen to Zistelalm, near Hofstetter, 47°47'11"N, 013°05'56"E, grid number 8244/2, 604 m above sea level, on strongly rotten wood of *Picea abies*, 5 November 2003, collected and determined by Roman Türk (33910).

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749. **Mycobilimbia epixanthoides** (Nyl.) Vitik. et al. ex Hafellner & Türk

AUSTRIA, Steiermark (=Styria), Östliches Grazer Bergland, 5.6 km NNE of the centre of Graz, 1.3 km NW of Wenisbuch, middle part of the valley Dürngraben, 47°07'25"N, 015°27'45"E, grid number 8858/4, 500 m above sea level, forest area on steep N-facing slopes along a gorge, on stem bark of *Acer pseudoplatanus*, 13 April 2006, collected by Walter Obermayer (11116), determined by Martin Kukwa (2006).

Note: TLC (specimen in GZU tested): No known lichen substances detected (unknown spot, only seen in UV-(366) after sulfuric acid treatment, dark red: 7/7/6-7).

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750. **Mycoblastus sanguinarioides** Kantvilas

RUSSIA, Khabarovskiy Krai, Bureinskiy Zapovednik, upper reach of the Pravaya Bureya River, Tsarskaya Doroga, 2 km NE of patrol cabin 'Staraya Medvezhka', 25 km SE of Sofiysk and 4 km NNE (upstream) of the patrol cabin 'Novaya Medvezhka', 52°09.604'N, 134°19.697'E, 901 m above sea level, talus slope (siliceous parent material) in *Larix gmelinii* and *Ledum palustre* forest, on wood and bark of *Larix gmelinii*, 3 August 2009, collected and determined by Toby Spribille (31827) [excursion together with Lidiya Yakovchenko].

Note: Location and habitat data in Russian: Буреинский заповедник, верховья р. Правая Бурея, Царская дорога, каменистые осыпи в 2 км с-северно-восточнее кордона "Старая Медвежка", 25 км по воздуху юго-восточнее с. Софийск и 4 км с-северо-восточнее вверх по течению кордона "Новая Медвежка". Каменистые осыпи силикатной природы в окружении лиственничного багульникового леса.

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751. *Nephroma resupinatum* (L.) Ach.

AUSTRIA, Tirol, Osttirol, Venediger Gruppe, 16 km NNW of Matri, Innergschlöß, WNW of the Venedigerhaus, path from Salzplatten via Ochsenwald to Venedigerhaus, 47°07'30"N, 12°26'E, grid number 8840/4, 2050 m above sea level, on decaying wood (and bryophytes), 3 September 1998, collected and determined by Walter Obermayer (12255).

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752. *Nephroma resupinatum* (L.) Ach.

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, 6.2 km SE of Saint-Gervais-les-Bains, 2 km ESE of Bionnassay, 45°51'44-52"N, 006°46'25-50"E, 1500–1700 m above sea level, mixed forest with dominant *Picea abies*, on stem bark of *Sorbus aucuparia*, 20 August 2011, collected and determined by Walter Obermayer (12193).

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753. *Normandina pulchella* (Borrer). Nyl.

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, Raabklamm NW of Weiz, 1.5 km ESE of Arzberg, S-exposed foot of the mountain Gösser, 47°14'40"N, 015°32'10"E, grid number 8759/3, 560 m above sea level, remnants of a riparian forest at the orographically left side of the brook, on bark of *Alnus incana* (covering bryophytes), 3 October 2009, collected and determined by Josef Hafellner (74389).

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754. *Ochrolechia androgyna* (Hoffm.) Arnold

AUSTRIA, Salzburg, Lungau Region (=Tamsweg district), Schladminger Tauern, 9.5 km NNE of the centre of Tamsweg, path from Preberhalterhütte to Preberkessel, 1.6 km SW of the summit of Preber, 47°12'25"N, 013°51'04"E, grid number 8749/3, 1977 m above sea level, on bark of old *Larix decidua* (inclined stem), 13 September 2011, collected and determined by Roman Türk (40137).

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755. **Ochrolechia upsaliensis** (L.) A.Massal.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Wölzer Tauern, mountains 8 km WNW of Pusterwald, E-facing slopes of Kleinhansl, trail between Wildalmhütte and Kleinhansl, 47°19'40"N, 014°16'40"E, grid number 8651/4, 2000 m above sea level, low outcrops and cliffs of marble, on remnants of bryophytes and other plants, 25 August 2005, collected and determined by Josef Hafellner (73186).

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756. **Opegrapha aff. niveoatra** (Borrer) J.R.Laundon

AUSTRIA, Salzburg, Pinzgau, 25 km WSW of Mittersil, border area between the mountain ranges Zillertaler Alpen and Hohe Tauern, 1.5 km SSW of the centre of Krimml, just N of the waterfall Unterer Achenfall, 47°12'35"N, 012°10'10"E, grid number 8739/3, 1055–1070 m above sea level, on bark of *Picea abies*, 30 October 2010, collected by Roman Türk (47972), determined by Roman Türk and Walter Obermayer.

Note: No pycnidia found. Disc partly slit-like and partly wide open with a light brown disc, hymenium J+ red, excipulum K+ slightly greenish or K-, most spores with 4 septa (rarely with 5 or 6 septa), 20–24 x 3–3.5 µm, middle cell partly slightly enlarged.

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757. **Parmeliella triptophylla** (Ach.) Müll.Arg.

AUSTRIA, Steiermark (=Styria), Nördliche Kalkalpen, Ennstaler Alpen, Gesäuse mountains E of Admont, trail from Johnsbach to Hess-Hütte, shortly W of Untere Koderalm, 47°32'40"N, 014°37'35"E, grid number 8453/4, 1250 m above sea level, mixed forest, on bark of *Acer pseudoplatanus*, 25 September 2005, collected and determined by Josef Hafellner (67499).

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758. *Peltigera malacea* (Ach.) Funck

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Wölzer Tauern, mountains SE of Donnersbach, Planersee, summit area facing the N-exposed ridge, 47°24'55"N, 014°12'35"E, grid number 8551/3, 2070 m above sea level, N-exposed dwarf-shrub heath (rich in bryophytes), on ground, 28 July 2010, collected and determined by Josef Hafellner (75984).

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759. *Pertusaria commutata* Müll.Arg.

ARGENTINIA, Misiones, San Ignacio, Pastereo Chico, 27°19'S, 055°22'W, 275 m above sea level, on trunk and branches of *Helietta cuspidata*, 18 February 1956, collected by J.E. Montes (10079), determined by H.S. Osorio in 2004, confirmed by Alan Archer (2006).

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760. *Pertusaria oculata* (Dicks.) Th.Fr.

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, 3.5 km SSE above Chamonix, 500 m S of the cable car station at Plan de l'Aiguille, 45°53'48"N, 006°53'14"E, 2300–2350 m above sea level, slopes and ridge of a border moraine, alpine vegetation with siliceous boulders, on ground, 18 August 2011, collected and determined by Walter Obermayer (12258).

Note: TLC (specimen in GZU tested): Fumarprotocetraric acid, no gyrophoric acid.

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761. *Pertusaria suboculata* Brodo & Dibben

U.S.A., Alaska, E side of White Pass, along major stream draining, 59°36.947'N, 135°07.391'W, 950 m above sea level, on bark of *Abies lasiocarpa*, 9 September 2008, collected and determined by Toby Spribille (29373, ex herbario KLGO 53089).

Note: TLC (specimen in GZU tested): Fumarprotocetraric acid; partly intermixed with *Ramboldia cinnabarina* and *Biatora subduplex*.

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762. *Phaeophyscia chloantha* (Ach.) Moberg

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 9 km NE of the centre of Graz, Schaftal, Hollergraben, 47°06'51"N, 15°32'37"E, grid number 8859/3, 530 m above sea level, apple trees in meadow (close to the edge of a forest), on twigs of *Malus domestica*, 26 October 2010, collected and determined by Walter Obermayer (12065).

Note: Associated species (partly intermixed on the specimens): *Melanelixia subaurifera*, *Physcia adscendens* (including its parasite *Syzygospora physciacearum*), *Parmelia sulcata* (rare), *Hypogymnia physodes* (rare), *Xanthoria parietina*, *Candelariella reflexa*, *Candelaria concolor*, *Physcia aipolia* agg. (including its parasites *Xenonectriella leptaleae*, *Lichenochora aipoliae*, and *Tubeufia heterodermiae*), *Pseudevernia furfuracea* var. *ceratea* (rare), *Phaeophyscia orbicularis* (rare), *Melanohalea exasperatula* (rare), *Evernia prunastri* (rare).

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763. *Phlyctis argena* (Spreng.) Flot.

AUSTRIA, Salzburg, Hohe Tauern, valley of the river Gasteiner Aache, Bad Hofgastein, near the sports ground, 47°10'08"N, 013°05'38"E, grid number 8844/2, 840 m above sea level, trees in an avenue, on *Acer pseudoplatanus*, 24 October 2010, collected and determined by Helmut Mayrhofer (18141).

Note: TLC: Norstictic acid, unknown substance (UV-white, 2-3/1-2/2).

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764. *Physcia adscendens* (Fr.) H.Olivier

AUSTRIA, Steiermark (=Styria), Oststeirisches Riedelland, 9 km NE of the centre of Graz, Schaftal, Hollergraben, 47°06'51"N, 15°32'37"E, grid number 8859/3, 530 m above sea level, apple trees in meadow (close to the edge of a forest), on twigs of *Malus domestica*, 2 October 2011, collected and determined by Walter Obermayer (12268).

Note: All specimens partly with apothecia; all specimens partly infected with *Syzygospora physciacearum*.

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765. **Physconia americana** Essl.

CHINA, Xizang, SE Tibet, Upper Yi'ong Zangbo, 33 km E (below) of Lhari (vegetation record no. 95-4), 30°36'N, 93°28'E, 4410 m above sea level, grazed *Juniperus-Sabina* forest on S-facing slope, on bark of *Juniperus*, 5 September 1995, collected by Georg Miehe and Sabine Miehe (95-20-33/05), determined by Walter Obermayer.

Note: Specimen in GZU infected with a lichenicolous fungus.

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766. **Physconia distorta** (With.) J.R.Laundon

GREECE, Crete, south coast, Periferiaki Enotita Chanion, 11.7 km N of Sougia, 2 km N of Agia Irini, 35°21'13"N, 023°50'15"E, 940 m above sea level, bed of a creek (at roadside), on bark of *Castanea sativa*, 29 August 1993, collected and determined by Gerhard Rambold (s.n.).

Note: Almost without apothecia.

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767. **Placidium corticola** (Räs.) Breuss

URUGUAY, dept. Salto, Paso Yacare (cross highway number 3 and Arroyo Yacare), 31°12'S, 057°51'W, inner part of a marginal forest, on trunks, 4 February 1970, collected and determined by Héctor S. Osorio (5787).

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768. **Protopannaria pezizoides** (Weber ex F.H. Wigg.) P.M. Jørg. & S.Ekman

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, path from cable car station at Les Grandes Platières to Tête Pelouse, 10.3 km NE of the centre of Sallanches, 1.3 km NE of the cable car station, 45°59'37"N, 006°43'54"E, 2370 m above sea level, layered limestone and patches of alpine vegetation, on vertical face of an earthy crevice, 19 August 2011, collected and determined by Walter Obermayer (12260).

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769. **Protoparmelia badia** (Hoffm.) Ach.

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, 10.6 km NE of the centre of Sallanches, 1.6 km NE of the cable car station of Les Grandes Platières, W-facing slopes of Tête Pelouse, 45°59'51"N, 006°43'55"E, 2370 m above sea level, cliffs of clay shale (partly with low content of calcium) in alpine pasture, on vertical and overhanging rock faces, 19 August 2011, collected and determined by Walter Obermayer (12261).

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

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770. **Pseudocyphellaria anomala** Brodo & Ahti

CANADA, British Columbia, Goat Range, Kuskanax River, ca. 0.8 km upstream of Gardner Creek, 7.9 km NE of the town of Nakusp, 50°17.326'N, 117°43.189'W, 695 m above sea level, on twigs of *Tsuga heterophylla*, 19 October 2009, collected and determined by Toby Spribille (33381).

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771. **Psilolechia lucida** (Ach.) M.Choisy

SLOVENIA, Kobansko, Bistrica (=Feistritz) valley, 9.5 km NW of Muta (=Hohenmauthen), along the trail at the orographically right river bank, opposite to the Austrian customs hut, 46°39'19"N, 015°07'07"E, 470 m above sea level, outcrops of soft schist exposed to the N in deciduous forest, on overhanging rock faces, 5 October 2008, collected and determined by Josef Hafellner (72206) and Lucia Muggia.

Note: Specimen in GZU with apothecia.

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772. **Punctelia constantimontium** Sérusiaux

URUGUAY, dept. Canelones, Bañados de Carrasco, 34°50'S, 55°58'W, on *Taxodium*, 8 September 1984, collected and determined by Héctor S. Osorio (8409).

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773. **Pycnora praestabilis** (Nyl.) Hafellner

U.S.A., Idaho, Lemhi County, Lemhi Range, ridge between Sheep Mountain and Spring Mountain, 44°23'N, 113°15'W, 2960–3020 m above sea level, on dead *Pinus flexilis*, 29 July 1999, collected by Helmut Mayrhofer (17386), Roger Rosentreter and C.B. Davis, determined by Toby Spribille (2007).

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774. **Ramalina americana** Hale

U.S.A., Maine, Knox County, Warren, along Camden Road just upstream of bridge on the St. George River, 44°07.402'N, 69°14.821'W, 7 m above sea level, edge of city park, on twigs of *Fagus*, 11 October 2011, collected and determined by Toby Spribille (32871) [excursion together with Viktoria Wagner].

Note: TLC: Usnic acid (no other substances detected).

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775. **Ramalina celastri** (Spreng.) Krog & Swinscow

URUGUAY, dept. Rio Negro, Rio Uruguay, Arroyo Caracoles Chico, Colonia Tomas Berreta, 33°10'S, 058°36'W, on shrubs, 27 October 2009, collected by F. Scarabino and C. Clavijo (s.n., herbarium Osorio no. 9747), determined by Héctor S. Osorio (2010).

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776. **Ramalina celastri** (Spreng.) Krog & Swinscow

URUGUAY, dept. Montevideo, Rincón de Melilla, proximity of Santa Lucia River, 34°45'W, 056°20'W, on *Erythrina crista-galli*, 15 November 2009, collected by M. Garcia de la Peña (herbarium Osorio no. 9734), determined by Héctor S. Osorio (2010).

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777. **Ramalina pollinaria** (Westr.) Ach.

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), basal area of Grebenzen, 2.3 km SSW of the centre of Neumarkt, 800 m E of the farmhouse Tschaggober, 47°03'12"N, 014°25'01"E, grid number 8952/2, 985 m above sea level, S-exposed rock faces (in a forest area with *Picea abies* and *Larix decidua*), on strongly SSE-inclined faces of quartzitic phyllites (partly covered with bryophytes), 26 December 2010, collected and determined by Walter Obermayer (12146).

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778. **Rhizocarpon badioatrum** (Flörke ex Spreng.) Th.Fr.

AUSTRIA, Kärnten (=Carinthia), Karnische Alpen, 10 km SW of Kötschach-Mauthen, 4 km NW of Plöckenpass, 500 m W of Obere Valentinalm, 46°37'15"N, 012°53'55"E, grid number 9343/3, 1650 m above sea level, alpine pasture with calcareous boulders and outcrops, on horizontal faces of schist outcrops (near ground), 18 July 2007, collected and determined by Walter Obermayer (12181).

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779. **Rinodina alba** Metzler ex Arnold

GREECE, Crete, Nomós Lassithiou, 6.5 km N of Palaiokastro, S of the palm beach of Vai, 35°15'11"N, 026°15'57"E, 30 m above sea level, rocky ridge, on E-exposed schist outcrops, 31 July 2007, collected by Helmut Mayrhofer (18157), determined by Helmut Mayrhofer (2011).

Note: TLC (specimen in GZU tested): Atranorin, gyrophoric acid (maj.), 2''-O-methylgyrophoric acid (submaj.).

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780. **Rinodina albana** (A.Massal.) A.Massal.

AUSTRIA, Kärnten (=Carinthia), Gailtaler Alpen, 6.4 km SW of the centre of Paternion, N of Kreuzen, near a property called Farcher, 46°40.5'N, 013°34.6'E, grid number 9347/1, 1020 m above sea level, on tree stump of *Fagus sylvatica*, 25 September 2000, collected by Helmut Mayrhofer (13976) and Birgit Pichorner, determined by Helmut Mayrhofer (2010).

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781. **Rinodina confragosa** (Ach.) Körb.

GREECE, Crete, Nomós Lassithiou, along the road from Sitanos to Karidi, 0.6 km E of Sitanos, 35°07'21"N, 026°09'45"E, 660 m above sea level, on overhangs of siliceous rocks, 9 September 2009, collected and determined by Helmut Mayrhofer (18158).

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782. **Rinodina guzzinii** Jatta

GREECE, Crete, Nomós Rethimnio, road from Agia Galini to Melambes, 1.5 km NW of Agia Galini, 35°06'23"N, 024°40'40"E, 130 m above sea level, on rocks, 16 May 1997, collected by Helmut Mayrhofer (13798b), determined by Helmut Mayrhofer (2011).

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783. **Rinodina trachytica** (A.Massal.) Bagl. & Carestia

BULGARIA, Slavyanka mountain, Blagoevgrad province, Petrovo, valley of Petrovska reka, SW of Petrovo village, 41°25'29"N, 023°31'49"E, 534 m above sea level, S-exposed open dry slopes with rock outcrops, on mica schist, 28 May 2010, collected by Helmut Mayrhofer (18159) and Adriana Atanassova, determined by Helmut Mayrhofer (2011).

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784. **Rinodina trevisanii** (Hepp) Körb.

ARGENTINIA, Tierra del Fuego, Dept. Río Grande, 50 km SSW of the centre of Río Grande, 7 km SE of Estancia Río Apen, 54°13'35"S, 068°04'05"W, 100–150 m above sea level, degenerated *Nothofagus antarctica* forest, on bark, 7 January 1989, collected by Josef Poelt (s.n.), determined by Helmut Mayrhofer (2011).

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785. **Schaereria dolodes** (Nyl. ex Herre) Schmull & T.Sprib.

U.S.A., Montana, Lincoln County, Rocky Mountain Trench, Laughing Water Creek, ca. 1 km above its mouth at Murphy Lake, 48°44.711'N, 114°51.140'W, 907 m above sea level, open *Larix occidentalis* and *Pseudotsuga menziesii* forest, on bark of mature *Pseudotsuga menziesii*, 26 September 2008, collected and determined by Toby Spribille (s.n.).

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786. **Solorina saccata** (L.) Ach.

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, 6.4 km SE of Saint-Gervais-les-Bains, 2 km SE of Bionnassay, path from Col de Tricot to Mont Vorassay, 45°51'03"N, 006°46'08"E, 2130 m above sea level, cliff of clay shale (calcareous) in alpine meadow, on vertical, earthy faces, 20 August 2011, collected and determined by Walter Obermayer (12194).

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787. **Stereocaulon symphycheilum** I.M.Lamb

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 20 km W of the centre of Köflach, path from Hirscheeggertsattel (Salzstiegelhaus) to Ameringkogel, between the summits Weißenstein and Ameringkogel, 47°04'12", 014°48'29"E, grid number 8955/1, 2165 m above sea level, alpine vegetation (windblown ridge), on ground, 26 August 2009, collected and determined by Walter Obermayer (12251).

Note: TLC (specimen in GZU tested): Atranorin, lobaric acid syndrome; due to lobaric acid, especially the capitate soralia are strongly white in UV (each specimen tested). Intermixed *Stereocaulon vesuvianum* has been separated (by means of an UV-lamp) and is issued in Lichenotheca Graecensis, Fasc. 18–20, no. 391.

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788. **Stereocaulon vesuvianum Pers.**

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9.3 km E of the centre of Neumarkt, 500 m SW of the summit Kreiskogel, steep slopes between Kreiskogel and Grotscher, 47°05'05"N, 014°32'50"E, grid number 8953/1, 2100 m above sea level, alpine vegetation and boulder fields, on bryophytes above siliceous rocks, 24 August 2010, collected and determined by Walter Obermayer (12015).

Note: All specimens UV-. Intermixed thalli with UV+ white colour (= *St. symphycheilum*) have been separated.

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789. **Strigula smaragdula Fr.**

URUGUAY, Dept. Salto, Uruguay river, Salto Grande Island, 31°14'S, 57°55'W, 40 m above sea level, on leaves of *Cupania vernalis*, 6 February 1972, collected and determined by Héctor S. Osorio (6682).

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790. **Strigula smaragdula Fr.**

URUGUAY, Dept. Rivera, Cuchilla Negra, Subida de la Diligencia, 30°56'S, 055°37'W, on leaves of *Allophyllus guaraniticus*, 23 March 1989, collected by E. Alonso Paz (660, herbarium Osorio no. 9753), determined by Héctor S. Osorio (2011).

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791. **Thelocarpon epibolum Nyl.** *var. epibolum*

AUSTRIA, Salzburg, Salzburg city, Nonntal, Freisaal, 47°47'28"N, 013°03'15"E, grid number 8244/1, 425 m above sea level, fence of a parking area, on wood of *Picea abies*, 21 April 2008, collected by Roman Türk (43297) and Heidelinde Sofie Pfleger, determined by Roman Türk.

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792. *Trapelia obtegens* (Th.Fr.) Hertel

CZECH REPUBLIC, Northern Bohemia, Ústí nad Labem region, České Středohoří, 56 km WNW of the centre of Prague, 10.3 km WSW of Litoměřice, NNE slope of the mountain Boreč, 50°30'55"N, 013°59'22"E, 390 m above sea level, on phonolite scree, 25 September 2002, collected and determined by Josef P. Halda and Zdeněk Palice (s.n.).

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793. *Trapeliopsis gelatinosa* (Flörke) Coppins & P.James

AUSTRIA, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), E-facing slopes of Grebenzen, 6.1 km SSW of Neumarkt, 1.6 km S of Pöllau, between the farmhouse Fuchs and the area Königreich, 47°01'28"N, 014°23'15"E, grid number 8952/3, 1200 m above sea level, forest with *Picea abies* and *Larix decidua*, on naked ground (strongly shaded), 11 August 2010, collected and determined by Walter Obermayer (11996).

Note: All specimens fertile.

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794. *Trapeliopsis granulosa* (Hoffm.) Lumbsch

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 7.2 km NE of Neumarkt, SW-facing slopes of Obere Wenzelalpe, Hofstätter Halt (near Franzbauer-Hütte), 47°06'04"N, 014°30'45"E, grid number 8853/3, 1750 m above sea level, forest area near the timber line (with *Pinus cembra*, *Picea abies* and *Larix decidua*), on rotten wood of *Pinus cembra*, 28 August 2010, collected and determined by Walter Obermayer (12017).

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795. *Usnea angulata* Ach.

URUGUAY, dept. Soriano, Perico Flaco, Cerro de las Palmas, 30°08'S, 057°37'W, on trees, March 1913, collected by Mariano B. Berro (s.n., MVM no. 16848), determined by Héctor S. Osorio (2006).

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796. **Usnea intermedia** (A.Massal.) Jatta

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Wölzer Tauern, 8.8 km W of Oberzeiring, along the road to Lachtal, 1.8 km SSE of Lachtal, 150 m SE of Moarsepphaus, 47°14'08"N, 014° 22'32"E, grid number 8752/3, 1400 m above sea level, on twigs of *Larix decidua* (2.5 m height, light-exposed), 17 February 2004, collected and determined by Walter Obermayer (10200a).

Note: TLC: Usnic acid, salazinic acid (all specimens tested).

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797. **Usnea sphacelata** R.Br.

(Syn.: *Neuropogon sphacelatus*, *N. sulphureus*)

NORWAY, Svalbard, Platåberget W of Longyearbyen, plateau area near the break-off edge towards Nybyen, 78°12'04"N, 015°32'34"E, 485 m above sea level, scree, on quartzitic sandstone, 14 July 2009, collected by Rainer Karl (s.n.), determined by Walter Obermayer (2011).

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798. **Usnocetraria oakesiana** (Tuck.) M.J.Lai & J.C.Weii

(Syn.: *Allocetraria oakesiana*)

AUSTRIA, Oberösterreich (=Upper Austria), 10.3 km SW of Hallstatt, 6.8 km S of Gosau, SW of Vorderer Gosausee, Niedere Holzmeisteralm, 47°31'12"N, 013°31'16"E, grid number 8447/3, 975 m above sea level, on bark of *Picea abies*, 18 May 2007, collected and determined by Roman Türk (41792).

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799. Xanthoria coomae S.Y.Kondr. & Kärnefelt

– isotype –

AUSTRALIA, New South Wales, 100 km S of Canberra, vicinity of Cooma township, Cooma Lions Park, 36°13'40"N, 149°08'05"E, 830 m above sea level, on *Populus nigra* and *Pinus radiata* trees, along roadside, 31 January 2004, collected and determined by Sergey Kondratyuk (20494).

Note: Holotype in CANB.

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800. Xanthoria parietina (L.) Ach.

ITALY, Veneto, prov. Belluno, Nevegal SE of Belluno, slopes exposed to NE, surroundings of the middle station of the chair-lift on Col Faverghera, 46°05'10"N, 12°17'20"E, 1200–1300 m above sea level, mixed forest, on bark of old *Populus tremula*, 31 August 2002, collected and determined by Walter Obermayer (12188).

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