Dupla Graecensia Lichenum (2015, numbers 961–1020)

Walter OBERMAYER*

OBERMAYER W. 2015: Dupla Graecensia Lichenum (2015, numbers 961–1020). - Fritschiana (Graz) 80: 1–20. – ISSN 1024-0306.

Abstract: The present shipment of the exsiccata 'Dupla Graecensia Lichenum' (2015, numbers 961–1020) comprises 60 collections (348 specimens) of lichen duplicates from 11 countries: Albania (districts of Mat and Dibër), Australia (state Queensland), Austria (states Carinthia, Lower Austria, Salzburg, Styria, Upper Austria, and Vorarlberg), France (region Rhône-Alpes), Germany (state Bavaria), Greece (Corfu Island), Italy (region Lombardia), Slovenia, Switzerland (canton of Grisons), Ukraine (oblast of Transcarpathia), and U.S.A. (state Alaska),. TLC-investigations were carried out for 18 lichenized taxa. Isotype specimens of *Miriquidica invadens* Hafellner, Obermayer & Tretiach (parasitic on *Sporastatia polyspora*) are distributed.

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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 specimens of all distributed numbers 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 https://static.uni-graz.at/fileadmin/nawi-institute/Botanik/Fritschiana/fritschiana-80/dupla-graecensia-lichenum-2015.pdf. Label texts originally drafted in a local language have been translated into English by the author. The names of authors of lichenized fungi are given in a NOT abbreviated style and are (mostly) taken from 'The International Plant Names Index' (IPNI) (see http://www.ipni.org/ipni/plantnamesearchpage.do). The geographical classification system of the European Alps follows a four-part subdivision (applying the terms 'Western Alps', 'Central Alps', 'Eastern Alps', and 'Southern Alps') used by e.g. STÜWE, Kurt & HOMBERGER, Ruedi 2011: Die Geologie der Alpen aus der Luft. - Gnas: Weishaupt Verlag.

I wish to thank all the collectors and keepers of private herbaria for their contributions, in particular Josef HAFELLNER, Helmut MAYRHOFER, Florian MÜHLBACHER, Roman TÜRK, Jan VONDRÁK, and Silke WERTH. The determinations provided by the following colleagues are gratefully acknowledged: Ivan FROLOV (*Athallia*), Martin GRUBE (*Arthonia*), Josef HAFELLNER (lichenicolous fungi), and Philipp RESL (*Trapelia*).

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961. **Acrocordia gemmata** (Acharius) Abramo Massalongo

SLOVENIA, [Primorska], Goriška, Southern Alps, Julian Alps, 2 km south of the centre of Bovec, southeast above the village Cezsoča, 46°19'10"N, 013°33'20"E, elevation 380 m, solitary trees (at the roadside), on bark of *Juglans regia*. – 4 July 2003, collected and determined by Helmut Mayrhofer (20420).

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962. **Alyxoria varia** (Persoon) Ertz & Tehler

[Synonym: *Opegrapha varia*)

AUSTRIA, Steiermark (=Styria), Eastern Alps, Ennstal Alps, 4.8 km northwest of Hieflau, 3 km southwest of Großreifling, Tamischbachgraben, 47°38'13"N, 014°41'46"E, (grid number 8354/3), elevation 700 m, mixed forest (with *Picea abies, Abies alba, Acer pseudoplatanus* and *Betula pendula*), on bark of *Acer pseudoplatanus*. – 30 September 2015, collected and determined by Silke Werth (A12-10b2).

Note: Partly intermixed with Zwackhia viridis.

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963. **Amandinea punctata** (Hoffmann) Coppins & Scheidegger

SLOVENIA, [Primorska], Southern Alps, Julian Alps, Mangart Massif, northeast of Bovec, slopes of a large doline south of Mangartska koča (Mangart refuge), below Redča skala, 46°26'10"N, 013°38'45"E, elevation 1880 m, alpine vegetation and rocks of reddish limestone (partly slightly siliciferous), on plant debris. – 2 August 2003, collected by Helmut Mayrhofer (20128), Rok Mešl & Tanja Mrak, determined by Helmut Mayrhofer & Kathrin Ellmaier (2014).

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964. **Arthonia byssacea** (Weigel) Almquist

UKRAINE, Zakarpatska Oblast (=Transcarpathia), 24 km south-southeast of the centre of Mukacheve, 12.3 km east-northeast of the centre of Berehove, floodplain woodland 'Otok', 4 km southwest of the village Nyzhni Remety, 48°14'00"N, 022°48'20"E, elevation 125 m, ancient woodland, on bark of *Salix fragilis*. – 2 June 2013, collected and determined by Jan Vondrák & Ivan Frolov (without collector number).

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965. **Arthonia ferruginea** Vainio

AUSTRALIA, Queensland, east of the Tingarana Lookout southeast of Noosa Heads, 26°23'30"S, 153°06'E, elevation 160 m, edge of an evergreen forest, on bark of an unnamed tree. – 14 September 1986, collected by Josef Hafellner (16845) & Nell Stevens, determined by Martin Grube (2015).

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966. **Asahinea scholanderi** (Llano) William Culberson & Chicita Culberson

U.S.A., Alaska, North Slope Borough, Brooks Range, Endicott Mountains, south below the Atigun Pass, north of Chandalar Station, west above the James Dalton Highway (Alaska Highway 11), 68°06'30"N, 149°32'15"W, elevation 1120 m, east exposed slopes (with dwarf shrub tundra and low outcrops of siliceous schist), on boulders. – 19 August 2010, collected and determined by Josef Hafellner (79882) [excursion together with Toby Spribille, Lucia Muggia, and Celia Hampton-Miller].

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967. **Athallia holocarpa** (Hoffmann) Arup, Frödén & Søchting
[other used name: *Caloplaca holocarpa*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 11.3 km southwest of the centre of Judenburg, path from Winterleitenhütte along the northern shore of the lake 'Kleiner Winterleitensee' to 'Großer Winterleitensee', 200 m west of Winterleitenhütte, 47°05'40"N, 014°34'05"E, (grid number 8953/1), elevation 1785 m, edge of a forest with Picea abies, Larix decidua and Pinus cembra, on small siliceous rocks (eaves area of a tall *Picea abies*). – 30 November 2014, collected by Walter Obermayer (13307), determined by Ivan Frolov (2014).

Note: Some intermixed apothecia with a slightly more yellowish colour than the 'normal' orange ones contain asci with only (2-)4(-6) spores.

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968. **Blastenia ammiospila** (Wahlenberg) Arup, Søchting & Frödén
[other used name: *Caloplaca ammiospila*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, main ridge of Kemetgebirge, 3.8 km north-northwest of the centre of Gröbming, north facing slopes of Kammspitz, 70–100 meters in height below the summit, 47°28'37"N, 013°53'02"E, (grid number 8549/1), elevation 2020-2050 m, Caricetum firmae (at the base of a north-facing rock wall of Triassic limestone), on plant debris (mainly bryophytes). – 10 September 2015, collected and determined by Walter Obermayer (13473).

Note: Specimens partly intermixed with *Parvoplaca tiroliensis* and *Bilimbia accedens*.

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969. **Bryoplaca sinapisperma** (Lamarck) Søchting, Frödén & Arup
[other used name: *Caloplaca sinapisperma*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, 6.5 km southwest of the centre of Bad Mitterndorf, halfway between Goseritzalm and Hochmühleck, 47°31'08"N, 013°51'45"E, (grid number 8449/3), elevation 1550 m, mixed forest, on bryophytes (above limestone rock). – 15 July 2015, collected and determined by Walter Obermayer (13421) [excursion together with Josef Hafellner and Florian Mühlbacher].

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970. **Cetrelia monachorum** (Zahlbruckner) William Culberson & Chicita Culberson

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Koralpe, 6.7 km northwest of 'St.Oswald ob Eibiswald', 4.5 km northwest of 'St.Katharina in der Wiel', right between Jägerwirt and Wirtbartl, 46°44'40.8"N, 015°04'26.8"E, (grid number 9256/3), elevation 1305 m, mountain ridge with a mixed forest (*Picea abies, Abies alba, Acer pseudoplatanus, Fagus sylvatica*), on stem bark of *Acer pseudoplatanus*. – 23 September 2015, collected by Silke Werth (A10-02d), determined by Walter Obermayer.

Note: TLC (all specimens tested): Atranorin (traces; in soralia in higher concentration), imbricaric acid (major), perlatolic acid (minor). The specimen in GZU is intermixed with some small thalli of *Cetrelia cetrarioides* s.str. [TLC: Atranorin (traces), perlatolic acid (major), imbricaric acid (traces)], which are separately mounted on the cardboard.

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971. **Chaenotheca trichialis** (Acharius) Theodor Fries

SWITZERLAND, Graubünden (=Canton of Grisons), Eastern Alps, Alps of Engadin, Sesvenna Group, 12 km northeast of Scuol, San Niclà, just southeast of the church, 46° 51'25"N, 010°25'45"E, elevation 1150 m, mixed forest dominated by *Picea abies* and *Pinus sylvestris* (on steep north-exposed slopes with outcrops of calcareous schist), on bark of *Picea abies*. – 22 August 2006, collected and determined by Josef Hafellner (77295).

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972. **Cladonia macroceras** (Delise) Ahti

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 11 km northwest of the centre of Gröbming, 1.8 km southwest of the summit of Hierzberg, Plankenalm (northern part of the hut-area), 47°29'28"N, 013°46'18"E, (grid number 8548/2), elevation 1710 m, subalpine pastures above limestone (north-exposed faces of a small knoll), on ground. – 2 October 2015, collected by Walter Obermayer (13607) & Florian Mühlbacher, determined by Walter Obermayer.

Note: All issued specimens with apothecia. TLC: Fumarprotocetraric acid, [no atranorin].

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

AUSTRIA, Kärnten (=Carinthia), Southern Alps, Carnic Alps, 2.2 km southwest of 'Liesing im Lesachtal', road from Obergail to 'Obergailer Alm', 46°40'47"N, 012°47'42"E, (grid number 9342/2), elevation 1150 m, on wood of a hayloft. – 28 August 2013, collected and determined by Roman Türk (52176).

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974. **Dactylina arctica** (Hooker [son]) Nylander

U.S.A., Alaska, North Slope Borough, Brooks Range, Philip Smith Mountains, Atigun Pass, east above the James Dalton Highway (Alaska Highway 11), 68°07'45"N, 149° 28'40"W, elevation 1450 m, gentle slopes in arctic-alpine tundra-vegetation (with boulder strips of siliceous sandstone), on ground (amongst plant remnants). – 19 August 2010, collected and determined by Josef Hafellner (79873) [excursion together with Toby Spribille, Lucia Muggia, and Celia Hampton-Miller].

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975. **Dactylina ramulosa** (Hooker [son]) Tuckerman

U.S.A., Alaska, North Slope Borough, Brooks Range, Endicott Mountains, west-facing foothills of the Sukakpak Mountain, 67°35'35"N, 149°46'00"W, elevation 580 m, boulders of calcareous sandstone in open boreal forest, on ground (amongst plant remnants). – 21 August 2010, collected and determined by Josef Hafellner (79952) [excursion together with Toby Spribille, Lucia Muggia, and Celia Hampton-Miller].

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

SLOVENIA, [Primorska], Southern Alps, Julian Alps, Bavšica valley, northeast of Bovec, above Planina Bukovec, 46°22'30"N, 013°39'30"E, elevation 1340 m, low outcrops of limestone in open stands of young *Acer pseudoplatanus*, on plant debris. – 3 August 2003, collected and determined by Helmut Mayrhofer (20188).

Note: TLC: Lecanoric acid. The juvenile stages, which are parasitic on squamules of *Cladonia pyxidata* (TLC: gyrophoric acid, fumarprotocetraric acid), are well developed in each specimen. One sample with additional *'Lecidea' polytrichinella* (thallus and hymenium C+ red, spores 7 x 3 µm) has been separated (Mayrhofer 20188b) and is housed in GZU.

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

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 10 km northwest of the centre of Gröbming, 2.5 km southwest of the summit of Hierzberg, path from Schildenwangalm to Plankenalm, southwest facing slopes of Mooseck, 47°28'35-59"N, 013°46'15-30"E, (grid number 8548/2), elevation 1650–1730 m, scattered coniferous forest (with dominant *Pinus cembra*, subdominant *Larix decidua* and intermixed *Picea abies*), on strongly rotten wood and bryophytes (vertical faces). – 2 October 2015, collected by Walter Obermayer (13601), determined by Walter Obermayer.

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978. **Lecanora bryopsora** (Doppelbaur & Poelt) Hafellner & Türk

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, ridge area between Wenzelalpe and Kreiskogel, just south above the saddle (height notation 2073), 47°05'45"N, 014°32'50"E, (grid number 8953/1), elevation 2100 m, small marble outcrops in alpine gap vegetation (with dominant *Saxifraga oppositifolia*), on soil and plant debris. – 1 August 2010, collected and determined by Josef Hafellner (75974).

Note: Specimens partly associated with: *Physconia muscigena, Phaeorrhiza nimbosa, Pertusaria glomerata, Megaspora verrucosa, Blastenia ammiospila (=Caloplaca ammiospila), Caloplaca stillicidiorum*.

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979. **Lecanora mughicola** Nylander

ALBANIA, Central Albania, Dibër district, Kurorë e Lurës mountains, west above the village Fushë-Lurë, just north of Liqueni i Madh (Big Lake), 41°47'30"N, 020°11'40"E, elevation 1730 m, severely exploited beech-pine forest, on snags of *Pinus* spec. – 18 August 2007, collected and determined by Josef Hafellner (80386) [excursion together with Mauro Tretiach, Lucia Muggia, Massimiliano Piccotto, and Jani Marka].

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980. **Lecanora subaurea** Zahlbruckner

AUSTRIA, Steiermark (=Styria), Eastern Alps, Schladming Tauern, Kleinsölk-Obertal, beside the trail from Schwarzensee to Rettingscharte, Großer Gnasen, 47°17'50"N, 013° 50'50"E, (grid number 8749/1), elevation 1940 m, at the base of a rock wall (exposed to the south), on inclined rock faces of boulders of iron-rich gneiss. – 8 September 1993, collected by Josef Hafellner (41879), determined by Josef Hafellner & Walter Obermayer (2014).

Note: TLC: Rhizocarpic acid (major), pannarin (major), zeorin (minor), unknowns: The specimens are partly infected by the lichenicolous fungus *Carbonea aggregantula*, material of which is separately issued in the series Lichenicolous Biota (no 202) by Josef Hafellner (2015, Fritschiana 80: 23).

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981. **'Lecidea' berengeriana** (Abramo Massalongo) Nylander

[other used name: *Mycobilimbia berengeriana*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, ridge area between Wenzelalpe and Kreiskogel, just south above the saddle (height notation 2073 m), 47°05'45"N, 14°32'50"E, (grid number 8953/1), elevation 2100 m, small marble outcrops in alpine gap vegetation (with dominant *Saxifraga oppositifolia*), on soil and plant debris. – 1 August 2010, collected and determined by Josef Hafellner (75982).

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982. **Lepraria finckii agg.**

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl, 1.8 km northwest of Sankt Radegund, Römerweg, 47°11'31"N, 15°28'22"E, (grid number 8758/4), elevation 1080 m, slopes of a forestry road, on bare soil and bryophytes (vertical surface). – 8 February 2015, collected and determined by Walter Obermayer (13326).

Note: TLC (all issued specimens tested): Atranorin, zeorin, constictic acid (major), stictic acid (minor). The typical white and fluffy medulla is well developed beneath the soredia.

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983. **Leproplaca chrysodeta** (Vainio ex Räsänen) Jack Rodney Laundon

[other used name: *Caloplaca chrysodeta*]

AUSTRIA, Kärnten (=Carinthia), Southern Alps, Carnic Alps, Gailtal, 1.6 km southwest of Mauthen, Mauthner Klamm, orographically right side of the brook, between the first and the second bridge, 46°39'15"N, 012°59'00"E, (grid number 9343/2), elevation 800 m, west-exposed steep rock faces of a calcium rich schist (Carboniferous period), on rocks. – 18 July 2007, collected and determined by Josef Hafellner (76788).

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984. **Leproplaca xantholyta** (Nylander) Hue

[other used name: *Caloplaca xantholyta*]

AUSTRIA, Kärnten (=Carinthia), Southern Alps, Carnic Alps, Gailtal, 1.6 km southwest of Mauthen, Mauthner Klamm, orographically right side of the brook, between the first and the second bridge, 46°39'15"N, 012°59'00"E, (grid number 9343/2), elevation 800 m, west-exposed steep rock faces of a calcium-rich schist (Carboniferous period), on rocks. – 18 July 2007, collected and determined by Josef Hafellner (76789).

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

GERMANY, Bayern (=Bavaria), Eastern Alps, Chiemgau Alps, 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 bark of *Picea abies*. – 29 August 2009, collected and deter-mined by Josef Hafellner (79602).

Note: TLC: Thamnolic acid, elatinic acid.

distributed to: **CANB, GZU, M, NY, UPS, hb. Kalb**

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

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, 4 km west of the centre of Weiz, gorge of the river Raab ('Raabklamm'), 650 m northeast of the village Gutenberg, 150 m north-northwest of the castle 'Schloss Gutenberg', 47° 12'45-50"N, 015°34'00"E, (grid number 8759/3), elevation 500-505 m, gorge area along the river (mixed forest), on stem bark of *Fraxinus excelsior*. – 5 November 2014, collected and determined by Walter Obermayer (13258) [excursion together with Josef Hafellner and André Aptroot].

Note: TLC (specimen in GZU tested): Usnic acid, zeorin, traces of unknown terpenoids (probably from the bark). *Lepraria leuckertiana*, with the same chemistry, differs in having a cottony medulla.

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

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987. **Melanelia stygia** (Linnaeus) Esslinger

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, Fuchskogel 9 km west of Obdach, near the southeastern shore of the lake Wildsee, 47°02'30"N, 014°35'15"E, (grid number 8953/4), elevation 1980 m, siliceous boulders (amidst a morain rubble), on inclined faces of a big pegmatoid gneissic boulder. – 21 July 2007, collected and determined by Josef Hafellner (82134) & Lucia Muggia.

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

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988. **Miriquidica invadens** Hafellner, Obermayer & Tretiach

- isotype -

[parasitic on *Sporastatia polyspora*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Stubalpe, Ameringkogel Massif E of Obdach, slopes to the northeast-exposed corrie between Ameringkogel and Größenberg, 47°04'30"N, 014°48'15"E, (grid number 8954/2), elevation 2050-2100 m, gneissic outcrops in alpine grassland, on inclined faces of rocks. – 28 July 1990, collected and determined by Josef Hafellner (23960, isotype) & Walter Obermayer.

Note: TLC (holotype specimen in GZU examined): Miriquidic acid (major), stictic acid (major), constictic acid (major); TLC of the host thallus (*Sporastatia testudinea*): 5-0-methylhiascic acid (major), gyrophoric acid (traces), lecanoric acid (traces).

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

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989. **Myriolecis crenulata** (Hooker) Śliwa, Xin Zhao & Lumbsch

[Synonym: *Lecanora crenulata*]

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Saualpe, 15.6 km west-northwest of the centre of Wolfsberg, Gertrusk, in a cirque east below the summit, 46°51'45"N, 014°38' 50"E, (grid number 9153/2), elevation 1900 m, low marble outcrops (rich in mica), surrounded by dwarf shrub heathland, on dry, inclined faces of marble. – 9 October 2010, collected by Josef Hafellner (76290) & Lucia Muggia, determined by Josef Hafellner.

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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990. **Neofuscelia pulla agg.** (Acharius) Esslinger
[other used name: *Xanthoparmelia pulla* agg.]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, 4 km west of the centre of Weiz, close to the gorge of the river Raab ('Raabklamm'), 400 m northeast of the village Gutenberg, immediate surroundings of the castle Gutenberg, 47°12'41"N, 015°34'03"E, (grid number 8759/3), elevation 565 m, orchard and adjacent farm buildings, on clay roof tiles. – 5 November 2014, collected and determined by Walter Obermayer (13259) [excursion together with Josef Hafellner and André Aptroot].

Note: TLC: Glomelliferic acid (major), glomellic acid (minor), perlatolic acid (traces).

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991. **Parmelia ernstiae** Feuerer & Arne Thell

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northernmost part of Kemetgebirge, 6 km south-southeast of the centre of Bad Aussee, area of the northeastern and southeastern lakeshore of Ödensee, 47°33'45"N, 013°49'20"E, (grid number 8448/2), elevation 780 m, mixed forest (mainly with conifers) along the lakeshore, on bark of *Acer pseudoplatanus*. – 18 June 2015, collected and determined by Walter Obermayer (13425) [excursion together with Josef Hafellner, Florian Mühlbacher, and Paul Leonhardt].

Note: All issued specimens with well developed fruiting bodies. TLC: Atranorin (traces), chloroatranorin (traces), salazinic acid (major), consalazinic acid (minor), lobaric acid (minor), lichesterinic acid (traces), protolichesterinic acid (traces). The occurence of (at least traces of) fatty acids and the (at least partly) pruinose lobe tips speak in favour of *P. ernstiae* but the isidia (which are comparatively thin and strongly coralloid-branched) are not pruinose at all, which should be typical for the species.

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

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992. **Parmelia serrana** Ana Crespo, Maria Carmen Molina & David Hawksworth

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of St.Radegund, Schöcklkopf, 47°12'10"N, 015°28'41"E, (grid number 8758/4), elevation 1420 m, subalpine pasture with calcareous outcrops and some clumps of trees, on stem bark of *Picea abies* (basal area). – 15 November 2015, collected and determined by Walter Obermayer (13612).

Note: TLC: Atranorin (traces), chloroatranorin (traces), salazinic acid (major), consalazinic acid (submaj.), protolichesterinic acid (major), lichesterinic acid (submaj.).

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

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993. **Parmelia submontana** Nádvorník ex Hale

ALBANIA, Central Albania, Mat district, 22 km north-northeast of the centre of Tirana, Mali i Skënderbeut, Qafa e Shtamës (Shtamës pass), southwest above the town Burrel, just west of the pass, 41°31'20"N, 019°53'55"E, elevation 1230 m, remnants of a deciduous forest, on bark of *Acer pseudoplatanus*. – 19 August 2007, collected and determined by Josef Hafellner (80527) [excursion together with Mauro Tretiach, Lucia Muggia, Massimilliano Piccotto, and Jani Marka].

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

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994. **Parmelina pastillifera** (Harmand) Hale

AUSTRIA, Niederösterreich (=Lower Austria), Eastern Alps, Göstling Alps, 5.6 km southeast of the centre of Göstling, path from Mardersattel to 'Steinbacher Schattseite', 1 km north-northeast of the summit of Hocheck, 47°46'21"N, 014°58'57"E, (grid number 8255/2), elevation 1000 m, on bark of *Acer pseudoplatanus*. – 21 August 2013, collected and determined by Roman Türk (52174).

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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995. **Parmeliopsis ambigua** (Wulfen) Nylander

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 10 km northwest of the centre of Gröbming, 2.5 km southwest of the summit of Hierzberg, path from Schildenwangalm to Plankenalm, southwest facing slopes of Mooseck, 47°28'35–59"N, 013°46'15–30"E, (grid number 8548/2), elevation 1650–1730 m, scattered coniferous forest (with dominant *Pinus cembra*, subdominant *Larix decidua* and intermixed *Picea abies*), on lying deadwood (vertical faces). – 2 October 2015, collected and determined by Walter Obermayer (13602).

Note: All issued specimens show apothecia and are intermixed with *Parmeliopsis hyperopta*.

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996. **Peltigera leucophlebia** (Nylander) Gyelnik

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 10 km northwest of the centre of Gröbming, 2.5 km southwest of the summit of Hierzberg, path from Schildenwangalm to Plankenalm, southwest facing slopes of Mooseck, 47°28'35-59"N, 013°46'15-30"E, (grid number 8548/2), elevation 1650–1730 m, scattered coniferous forest (with dominant *Pinus cembra*, subdominant *Larix decidua* and intermixed *Picea abies*), on soil. – 2 October 2015, collected by Walter Obermayer (13600) & Florian Mühlbacher, determined by Walter Obermayer.

Note: All issued specimens with apothecia.

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

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, 6.3 km southwest of the centre of Bad Mitterndorf, near Goseritzalm (along the path to Hochmühleck), 47°31'20"N, 013°51'45"E, (grid number 8449/3), elevation 1420-1470 m, pasture with scattered limestone rocks, on bryophytes (above rocks). – 15 July 2015, collected and determined by Walter Obermayer (13423) [excursion together with Josef Hafellner and Florian Mühlbacher].

Note: All specimens with well developed apothecia.

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

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998. **Pertusaria amara** (Acharius) Nylander

GREECE, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra City, Moraitika, 39°29'15"N, 019°55'38"E, elevation 5 m, unutilized old olive grove (70 m away from the beach), on *Olea europaea*. – 17 August 2015, collected and determined by Walter Obermayer (13456).

Note: The specimen in UPS is associated with a sorediate thallus of *Ochrolechia* including its parasite *Dactylospora parasitica* (determined by Josef Hafellner). A separate sample of the lichenicolous fungus is stored in GZU.

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

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999. **Phaeorrhiza nimbosa** (Fries) Helmut Mayrhofer & Poelt

ITALY, Lombardia, province Brescia, Eastern Alps, Ortler Range, Cima di Cadi, north above Passo del Tonale, just northwest below the summit on the ridge to Monte Tonale Occidentale, 46°16'35"N, 010°34'05"E, elevation 2570 m, outcrops of calcareous schist (on the crest in alpine vegetation), on soil. – 28 July 2006, collected by Josef Hafellner (77173) & Lucia Muggia, determined by Josef Hafellner.

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

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1000. **Physcia adscendens** Henri Olivier

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, 4.8 km north-northwest of the centre of Schladming, 700 m north of the centre of Ramsau, 120 m north of the farmstead Feldlhof, 47°25'41"N, 013°39'09"E, (grid number 8547/4), elevation 1200 m, alley with *Acer pseudoplatanus* and *Sorbus aucuparia*, on bark of *Acer pseudoplatanus*. – 19 February 2015, collected and determined by Walter Obermayer (13327).

Note: Partly intermixed with *Melanohalea exasperatula, Parmelia sulcata, Phaeophyscia orbicularis, Physconia distorta, Physconia perisidiosa,* and *Polycauliona candelaria*.

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

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1001. **Physcia dubia** (Hoffmann) Lettau

FRANCE, Rhône-Alpes, Haute-Savoie, Western Alps, Bornes Alps, mountains west of Sallanches, bottom of 'Vallon de Doran', southwest of 'Refuge de Doran', 45°58'00"N, 006°34'54"E, elevation 1550 m, scattered boulders and low outcrops of a slightly calcareous schist in alpine pasture, on schist. – 17 August 2011, collected by Helmut Mayrhofer (20238), determined by Josef Hafellner (2015).

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

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1002. **Physconia perisidiosa** (Erichsen) Moberg

AUSTRIA, Oberösterreich (=Upper Austria), Northern Alpine Foreland, urban area of Steyr, Tabor (weir system), 48°02'45"N, 014°25'21"E, (grid number 7952/4), elevation 338 m, on bark of *Acer pseudoplatanus*. – 25 May 2006, collected and determined by Roman Türk (39585).

Note: Specimens partly intermixed with *Physconia enteroxantha*.

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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1003. **Platismatia glauca** (Linnaeus) William Culberson & Chicita Culberson

AUSTRIA, Salzburg, Eastern Alps, Salzburg Slate Alps, 7.5 km east-southeast of the centre of Maria Alm, pass area between 'Dientener Berge' and Hochkönig, Filzensattel (between Hinterthal and Dienten), along the path from Filzensattel to Gabühel, 47° 23'47"N, 013°00'05"E, (grid number 8644/1), elevation 1300-1330 m, montane forest, on twigs of *Picea abies*. – 10 August 2014, collected and determined by Walter Obermayer (13203).

Note: All issued specimes include thalli with apothecia. Some specimens (e.g. in GZU) with the lichenicolous fungus *Abrothallus cetrariae* (present in its anamorphic state: *Vouauxiomyces santessonii*; determined by Josef Hafellner, 2014).

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

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1004. **Protopannaria pezizoides** (Weber ex Fridrich Wiggers) Per Magnus Jørgensen & Stefan Ekman, sensu latissimo

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, 4 km south of Bad Mitterndorf, near the western shore of Salzastausee, Bartleck, Klausgraben, 47°31'05"N, 013°55'55"E, (grid number 8449/4), elevation 900 m, mixed forest with *Picea abies, Abies alba,* and *Fagus sylvatica* with single calcareous outcrops, on rotten wood. – 28 August 2015, collected by Florian Mühlbacher (138), determined by Walter Obermayer & Florian Mühlbacher.

Note: Due to the very small spores (16-20 µm in length), which are comparably weakly warted, the issued specimens are regarded as *Protopannaria pezizoides* in a very broad sense. Molecular studies are necessary to solve the taxonomic status of the present material (Per Magnus Jørgensen, personal communication).

distributed to: **GZU** (by an error, only one specimen is available)

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1005. **Protopannaria pezizoides** (Weber ex Fridrich Wiggers) Per Magnus Jørgensen & Stefan Ekman, sensu stricto

AUSTRIA, Vorarlberg, Eastern Alps, Verwall Group, Hochjoch Massif, 4.8 km east of the centre of Schruns, near the southern lakeshore of Schwarzsee, 47°04'02"N, 009°58'55"E, (grid number 8925/2), elevation 2100 m, north-exposed amphibolitic ouctrops, on earth (in the pit-moist state) in crevices. – 6 August 2008, collected and determined by Josef Hafellner (78972).

Note: Due to the comparably large spores (24-30 µm in length) which are also strongly warted, the issued specimens represent *Protopannaria pezizoides* in the narrow sense.

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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1006. **Pseudoschismatomma rufescens** (Persoon) Ertz & Tehler

[Synonym: *Opegrapha rufescens*]

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, Kemetgebirge, 6.2 km northeast of the centre of Gröbming, east-facing slopes of Bergereck (Prentner Berg), along the road from Prenten to the large water dam of the river Salza, 47°29'33"N, 013°57'05"E, (grid number 8549/1), elevation 800 m, mixed forest, on bark of *Acer pseudoplatanus*. – 16 April 2015, collected and determined by Walter Obermayer (13407).

distributed to: **CANB, E, GZU, M, NY, UPS, hb. Kalb**

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1007. **Punctelia jeckeri** (Roumeguère) Kalb

AUSTRIA, Steiermark (=Styria), Southeastern Alpine Foreland, Oststeirisches Riedelland, 4.3 km east-northeast of the centre of Graz, Innere Ragnitz, along the road ('Hochfeldweg') from the church (395 m alt.) to 'Fuchsriegel', 47°04'43"N, 15°29'40"E, (grid number 8958/2), elevation 400 m, along a brook, on big branches of *Quercus* (fallen down from the tree-top). – 30 March 2014, collected and determined by Walter Obermayer (13133).

Note: TLC (specimen in GZU tested): Atranorin (traces), lecanoric acid (major).

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

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1008. **Pyrenula nitidella** (Flörke ex Schaerer) Müller-Argoviensis

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, 4 km west of the centre of Weiz, gorge of the river Raab ('Raabklamm'), 650 m northeast of the village Gutenberg, 150 m north-northwest of the castle 'Schloss Gutenberg', 47°12'45-50"N, 015°34'00"E, (grid number 8759/3), elevation 500-505 m, gorge area along the river (mixed forest), on stem bark of *Fraxinus excelsior*. – 5 November 2014, collected and determined by Walter Obermayer (13260) [excursion together with Josef Hafellner and André Aptroot].

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

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1009. **Ramalina canariensis** Julius Steiner

GREECE, Kérkyra Island (=Corfu Island), 15 km (as the crow flies) south of the centre of Kérkyra City, Moraitika, 39°29'15"N, 019°55'38"E, elevation 5 m, unutilized old olive grove (70 m away from the beach), on twigs of *Olea europaea*. – 17 August 2015, collected and determined by Walter Obermayer (13458).

Note: TLC: Divaricatic acid. A 'tail' of fatty acid-like substances occured in B' (between 2 and 5).

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

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1010. **Ramalina farinacea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dead Mountains (=Totes Gebirge), 8.3 km ENE 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 (13045).

Note: TLC (all specimens tested): Chemotype with usnic (sometimes in traces only) and protocetraric acids. One specimen (in UPS) additionally contains thalli with usnic, salazinic, and norstictic acids, a chemotype which could also be intermixed in all other issued specimens).

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

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1011. **Ramalina fastigiata** (Persoon) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Östliches Grazer Bergland, Schöckl, 2.6 km north-northwest of the centre of St.Radegund, 70 m east of Schöcklkopf, 47°12'03"N, 015°28'37"E, (grid number 8758/4), elevation 1340-1370 m, edge of a forest (southeast-exposed), on bark of the stem and of main branches of *Acer pseudoplatanus*. – 15 November 2015, collected and determined by Walter Obermayer (13608).

Note: TLC: Evernic acid (major), usnic acid (traces).

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1012. **Ramalina fraxinea** (Linnaeus) Acharius

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, 9.1 km northwest of the centre of Schladming, west of Hierzegg, southwest-facing slopes of Durchat, agricultural road from the farmstead Mühlebner to the farmstead Grundlehner, 100 m east of Mühlebner, 47°26'22"N, 013°34'45"E, (grid number 8547/3), elevation 1110 m, heap of twigs and branches (stored for decaying) in open meadow, on twigs of cut down *Acer pseudoplatanus*. – 18 February 2014, collected and determined by Walter Obermayer (13156).

Note: TLC (all specimens tested): Usnic acid only.

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1013. **Ramboldia elabens** (Theodor Fries) Kantvilas & Elix

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 11.4 km southwest of the centre of Judenburg, 3 km north of the summit of Zirbitzkogel, east facing slopes of Kreiskogel (250 m west of the lake Großer Winterleitensee), 47°05'24"N, 014°33'40"E, (grid number 8953/1), elevation 1870 m, open stand with *Alnus alnobetula, Sorbus aucuparia* and *Pinus cembra*, on wood of *Pinus cembra* (exposed to the southeast). – 24 September 2014, collected and determined by Walter Obermayer (13211) [excursion together with Josef Hafellner, Jana Kocourková, Kerry Knudsen, and Silke Werth].

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1014. **Rinodina confragosa** (Acharius) Körber

AUSTRIA, Steiermark (=Styria), Eastern Alps, Styrian Fringe Mountains, Grazer Bergland, 10 km west of Birkfeld, Steinkogel south of Gasen (height notation 1356 m), 47°21'05"N, 015°34'15"E, (grid number 8659/1), elevation 1350 m, slightly inclined slopes of the ridge, subalpine meadows, on boulders (green schist). – 20 November 2011, collected by Josef Hafellner (79028), determined by Walter Obermayer & Helmut Mayrhofer (2015).

Note: TLC (specimen in GZU tested): Atranorin, zeorin.

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1015. **Rinodina milvina** (Wahlenberg) Theodor Fries

FRANCE, Western Alps, Rhône-Alpes, Haute-Savoie, Western Alps, Bornes Alps, mountains west of Sallanches, bottom of Vallon de Doran, southwest of Refuge de Doran, 45°58'00"N, 006°34'54"E, elevation 1550 m, scattered boulders and low outcrops of slightly calcareous schist in alpine pasture, on schist. – 17 August 2011, collected and determined by Helmut Mayrhofer (20233).

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1016. **Romjularia lurida** (Acharius) Timdal

AUSTRIA, Steiermark (=Styria), Eastern Alps, Dachstein Massif, northwestern part of Kemetgebirge, 11 km northwest of the centre of Gröbming, 1.2 km southwest of the summit of Hierzberg, 700 m north-northeast of Plankenalm, 47°29'45"N, 013°46'25-30"E, (grid number 8548/2), elevation 1810-1850 m, steep, south-exposed slope with limestone outcrops (and - adjacent to the north - a terrain edge), on sandy substrate and bryophytes (earthy crevices). – 2 October 2015, collected and determined by Walter Obermayer (13603).

Note: All issued specimens with apothecia.

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1017. **Stereocaulon symphycheilum** Ivan Lamb

AUSTRIA, Steiermark (=Styria), Eastern Alps, Seetal Alps, 12 km southwest of the centre of Judenburg, 2.4 km north of the summit of Zirbitzkogel, northwest facing slopes of Schlosserkogel (south of the lake Großer Winterleitensee), 47°05'15"N, 014°33'45"E, (grid number 8953/1), elevation 1930-1950 m, boulders and low outcrops of pegmatized garnet mica schist in dwarf-shrub communities near the tree line, on and amongst bryophytes (covering the rocks). – 30 November 2014, collected and determined by Walter Obermayer (13359).

Note: Tips of capitate soredia and medulla UV+ white (due to divaricatic acid). TLC (specimen in GZU tested): Atranorin, lobaric acid.

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1018. **Trapelia obtegens** (Theodor Fries) Hertel

AUSTRIA, Kärnten (=Carinthia), Eastern Alps, Saualpe, 10.7 km west of the centre of Wolfsberg, Beilstein, 1.5 km northwest of Gießlhütte, short and flat ridge north of the summit, 46°50'55"N, 014°42'15"E, (grid number 9154/3), elevation 1400 m, eklogit outcrops with single *Larix decidua*, on 'young' fieldstones. – 16 October 2010, collected and determined by Josef Hafellner (76351), determination confirmed by Philipp Resl (2015).

Note: Partly with apothecia.

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1019. **Trapelia placodioides** Coppins & Peter James

ALBANIA, Central Albania, Dibër district, Kurorë e Lurës mountains, west above the village Fushë-Lurë, just north of Liqueni i Madh (Big Lake), 41°47'30"N, 020°11'40"E, elevation 1730 m, severely exploited beech-pine forest, on boulders of ophiolitic rocks. – 18 August 2007, collected and determined by Josef Hafellner (80399) [excursion together with Mauro Tretiach, Lucia Muggia, Massimiliano Piccotto, and Jani Marka], determination confirmed by Philipp Resl (2015).

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1020. **Zwackhia viridis** (Acharius) Poetsch & Schiedermayr

AUSTRIA, Steiermark (=Styria), Eastern Alps, Ennstal Alps, 4.8 km northwest of Hieflau, 3 km southwest of Großreifling, Tamischbachgraben, 47°38'13"N, 014°41'46"E, (grid number 8354/3), elevation 700 m, mixed forest (with *Picea abies, Abies alba, Acer pseudoplatanus*, and *Betula pendula*), on bark of *Acer pseudoplatanus*. – 30 September 2015, collected and determined by Silke Werth (A12-10b1).

Note: Partly intermixed with *Alyxoria varia*.

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