

# Dupla Graecensia Lichenum (numbers 1451–1500)

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OBERMAYER W. 2025: Dupla Graecensia Lichenum (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17. - ISSN 1024-0306.

**Abstract:** The exsiccata 'Dupla Graecensia Lichenum (numbers 1451–1500)' comprises 50 collections (767 specimens) of lichen duplicates from the following 12 countries [the number of taxa is given in square brackets]: Albania (district of Nat [1]), Austria (states of Carinthia [2], Salzburg [3], Styria [12], Tyrol [3], and Upper Austria [10]), Cameroon [2], Canada (provinces of British Columbia [1] and Quebec [1]), France (region Auvergne-Rhône-Alpes [1]), Greece (region of Central Mazedonia [1], islands of Hydra [4] and Rhodes [1]), Italy (regions of Lombardy [1] and Trentino-Alto Adige [1]), Russia (Murmansk Region [1]), Slovenia [1], Sweden (Norrbotten County [1], U.S.A. (states of Alaska [1] and Montana [1]), and Venezuela (state of Mérida [1]).

*Allographa frischiana* and *Lecanactis moralesiana* are newly described, and the holotype and isotype material is distributed here. In addition, paratype material of *Leprocaulon inexpectatum* is issued. - TLC-investigations were carried out for 31 species.

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## Introduction

The exsiccata 'Dupla Graecensia Lichenum' is issued by the herbarium of the Institute of Biology (botany section) of the University of Graz, Austria (international herbarium acronym: GZU). It includes lichens (and sometimes lichenicolous fungi or other, not lichenized fungi with a lichen-like habit) 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.

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 taken from <https://www.mycobank.org/>.

The classification of the Alps used here follows the traditional division into Western and Eastern Alps (e.g. 1) GRASSLER F. 1984: Alpenvereinseinteilung der Ostalpen. - Alpenvereinsjahrbuch, 'Zeitschrift' Band 108: 215–224. - 2) MARAZZI S. 2005: Atlante orografico delle Alpi. SOIUSA [Suddivisione orografica internazionale unificata del Sistema Alpino]. - Priuli & Verluccha.

The following lichenologists have kindly provided specimens from their herbaria (the number of contributions is given in parentheses; the number of my collections is fourteen): Franz BERGER (6), Gabriele GHEZA (1), Josef HAFELLNER (8), Klaus KALB (3; two of these collections have been made by Andreas FRISCH & Idi TAMNJONG), Helmut MAYRHOFER (3), Toby SPRIBILLE (3), Dagmar TRIEBEL & Gerhard RAMBOLD (1), Roman TÜRK (9), Monika WIMMER (1), Mikhail ZHURBENKO (1). - Josef HAFELLNER and Christian SCHEUER kindly reviewed the draft manuscript.

## A) Descriptions of new species:

Dr. Klaus Kalb (Neumarkt in der Oberpfalz, Germany) kindly sent me material of two new species and at the same time gave me permission to publish the protologues of these taxa (ICN Art. 46.5).

### *Allographa frischiana* Kalb species nova

Mycobank MB861472

**Diagnosis:** The new species is similar to *Allographa salazinilabiata* but additionally contains protocetraric acid as a submajor metabolite, shows more ascospores in the ascus (2–4 vs. 1(–2)), and has smaller ascospores (75–120 × 20–27 µm vs. 110–200 × 30–65 µm )

**Type:** Cameroon, South Region, Campo Forest Reserve, 15 km southwest of the Memve'ele Hydro-electric Power Station, 02°17'45" N, 010°14'10" E, 350 m alt., corticolous on trunks and branches of dead trees laying at the roadside, 1 March 1999, leg. Andreas Frisch & Idi Tamnjong (holotype in GZU [GZU000365463], isotypes in CANB, M, NY, UPS; distributed as Dupla Graecensia Lichenum no. 1451).

**Description:** Thallus corticolous, beige to brownish green, smooth, corticate, glossy, c. 0.2 mm thick; cortex up to 50 µm, photobiont layer 75 µm, medulla 80 µm thick. Lirellae prominent to sessile with a constricted base and a thick lateral to almost complete thalline margin, elongate, up to 3 mm long, 11 mm broad, straight, rarely curved, simple with striate, first convergent labia and a concealed disc, labia becoming slightly divergent with age, disc with a thin whitish pruina (*bala-ghatensis*-morph; see Kalb et al. 2018). Exciple uncarbonized, light brownish, up to 0.3 mm broad; parathecium laterally l+ blue; hymenium clear, 0.6 mm broad, 0.5 mm high; ascospores 2–4 per ascus, densely muriform (20–30 × 1–5-septate), 75–120 × 20–27 µm, l+ distinctly blue. - TLC: salazinic acid (major), protocetraric acid (submajor).

**Etymology:** The new species is named in honour of Dr. Andreas Frisch (Oslo, Norway), who collected this species and made it available to the author of the taxon described here.

**Remarks:** *Allographa frischiana* is similar to *A. salazinilabiata*, but differs in having 2–4 ascospores per ascus (versus 1(–2) in *A. s.*), smaller ascospores (75–120 × 20–27 µm versus 110–200 × 30–65 µm in *A. s.*), and in chemistry (stictic acid only in *A. s.*). Habitually very similar is also *Acanthothecis abaphoides*, but this species lacks salazinic acid (with protocetraric acid only), has l-ascospores, and warty periphysoids and paraphyses-tips.

### *Lecanactis moralesiana* Kalb & Aptroot species nova

Mycobank MB861473

**Diagnosis:** The new species is similar to *Lecanactis elaeocarpa*, but the apothecia are smaller and almost without a margin, and the ascospores are strongly curved.

**Type:** Venezuela, State of Mérida, Sucre Municipality, San Juanito, a few kilometers east-northeast of Chiguará, above the hacienda 'Los Topes', 08°30'N, 071°30'W, elevation 1500 m, edge of a tropical rainforest, on bark of an unnamed tree, 3 August 1989, leg. Klaus Kalb & Antonio Morales-Mendez (holotype in GZU [GZU000365464], isotypes in CANB, M, NY, UPS; distributed as Dupla Graecensia Lichenum no. 1470).

**Description:** Thallus epiphloeodic, dull, continuous, milky whitish to very pale ochraceous, surrounded by a brown prothallus line of c. 0.2 mm width. Algae *Trentepohlia*. Apothecia sessile, round to somewhat ellipsoidal or lobate, up to 0.8 mm wide; margin c. 0.05 mm wide, not higher than the disc and usually hidden, inside brown, ascoma structure hyphal; disc chocolate brown, convex, not pruinose. Hymenium c. 125 µm high, epihymenium dark brown, extending below the hypothecium; hypothecium hyaline; spores clavate but with rounded ends, 3-septate, hyaline, 20–22 × 4.5–5.5 µm, curved, without a gelatinous sheath. - TLC: lepraric acid.

**Etymology:** The new species is named in honour of Prof. Antonio Morales-Mendez (Mérida, Venezuela), who kindly hosted the collector during his stay in Venezuela and guided some unforgettable collecting trips.

## B) Labels:

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

### 1451. *Allographa frischiana* Kalb – type collection

[holotype in GZU, isotypes in CANB, M, NY, UPS]

**CAMEROON**, South Region, Campo Forest Reserve, 15 km southwest of the Memve'ele Hydroelectric Power Station, 02°17'45"N, 010°14'10"E, elevation 350 m, on trunks and branches of dead trees lying at the roadside. – 1 March 1999, collected by Andreas Frisch & Idi Tamnjong (GZU000365463), determined by Klaus Kalb.

Note: For the description of the species see Obermayer W. 2025: *Dupla Graecensia Lichenum* (2025, numbers 1451–1500). - Fritschiana (Graz) 103: 2.

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

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### 1452. *Allophoron farinosum* Nádvorník

**CAMEROON**, South Region, along the Ntem River (Rio Campo), near Oveng Village, Campo Forest Reserve, 02°24'35"N, 010°21'50"E, elevation 350 m, small cleared area, on twigs and braches from dead, fallen trees (mainly *Musanga cecropioides*). – 2 March 1999, collected and determined by Andreas Frisch & Idi Tamnjong (s.n.).

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

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### 1453. *Arthonia atra* (Persoon) Albert Schneider

**AUSTRIA**, Oberösterreich (= Upper Austria), Granite and Gneiss Plateau, Mühlviertel, 5.4 km south-southeast of Neustift im Mühlkreis, valley of the river Ranna (just north of the confluence with the Danube), 550 m north of Rannamühl, 48°28'48"N, 013°46'35"E, (grid number 7548/2), elevation 300 m, gorge forest, on bark of *Fraxinus excelsior* (felled tree trunk; up to a stem height of 7 m). – 25 October 2018, collected and determined by Franz Berger (33702c).

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

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### 1454. *Arthonia vinosa* Leighton

**AUSTRIA**, Oberösterreich (= Upper Austria), Northern Alpine Foreland, Kobernaußer Wald, 6.5 km west of the centre of Frankenburg am Hausruck, valley of the brook 'Fornacher Redlbach', Redltal, 48°04'26"N, 013°24'16"E, elevation 630 m, forest managed as 'Plenterwald', on bark of *Picea abies*. – 29 August 2019, collected by Franz Berger (32712b), determined by Franz Berger (confirmed by Martin Grube, 2025).

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

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**1455. *Athallia cerinelloides* (Erichsen) Arup, Frödén & Söchting**  
[recently used synonym: *Caloplaca cerinelloides*]

**CANADA**, British Columbia, West Kootenay Region, Stewart Creek Falls, along Highway 6, 13 km north of Salmo, 49°18'41.2"N, 117°13'57.8"W, elevation 810 m, broader area of a waterfall spray zone, on young needles of *Thuja plicata*. – 30 August 2011, collected and determined by Toby Spribille (s.n.).

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

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**1456. *Biatora globulosa* (Flörke) Fries**

[recently used synonyms: *Bacidia g.*, *Catillaria g.*, *Myrionora g.*, *Lecania g.*,  
*Lecania hyalina*]

**AUSTRIA**, Tirol, Northern Limestone Alps, Ammergauer Alpen (= Ammergebirge), 8.9 km east of Reutte, east-facing slopes of 'Soldatenköpfe' (north of the lake Plansee), along 'Altenbergweg' (lowermost part), 47°29'30"N, 010°50'05"E, (grid number 8531/1), elevation 1030 m, mixed forest, on bark of *Acer pseudoplatanus*. – 5 September 2004, collected and determined by Josef Hafellner (81203).

Note: Spores narrowly oblong (rarely slightly curved), 1-celled (or to a lesser extent with one septum), 10–12(–15) × 2.5–3 µm.

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

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**1457. *Bryoria fuscescens* (Gyelnik) Brodo & David Hawksworth -**  
[aggregate]

[of course not including *Bryoria capillaris*, *B. implexa*-aggregate, etc.]

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Seetaler Alpen (west facing slopes), 8.8 km east-southeast of the centre of Neumarkt, 580 m east-northeast of Tonnerhütte, path to the summit of Zirbitzkogel, just below 'Hohe Halt', 47°03'11"N, 014°32'17"E, (grid number 8953/1), elevation 1729 m, high montane mixed forest with *Larix decidua*, *Picea abies*, and *Pinus cembra*, on stem bark and twigs of *Larix decidua* and *Picea abies*. – 21 September 2025, collected and determined by Walter Obermayer (16857).

Note: TLC (specimen in GZU tested): fumarprotocetraric acid, confumarprotocetraric acid (tr.), protocetraric acid (tr.), [atranorin and chloroatranorin not detected].

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**1458. *Calicium tigillare* (Acharius) Persoon**

[recently used synonym: *Cyphelium tigillare*]

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Grazer Bergland, 2.4 km northwest of the centre of Sankt Radegund, Schöckl area, 100 m northeast of 'Halterhütte', 47°11'54"N, 015°28'16"E, (grid number 8758/4), elevation 1375 m, meadow with pseudoalpine vegetation and low calcareous rocks, on vertical faces of a tree stump exposed to the south. – 25 January 2025, collected and determined by Walter Obermayer (16496).

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**1459. *Celothelium lutescens* Franz Berger & Aptroot**

**AUSTRIA**, Oberösterreich (= Upper Austria), Granite and Gneiss Plateau, Mühlviertel, 2.3 km southwest of Neustift im Mühlkreis, Danube Valley, Donauleiten (directly opposite the village Engelhartzell), at the border brook with Germany, 48°30'59"N, 013°43'55"E, (grid number 7448/3), elevation 480 m, thermophilic mixed forest, on bark of *Prunus avium*. – 31 August 1996, collected and determined by Franz Berger (10200).

Note: The lichenization of the species is highly questionable.

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**1460. *Cetrelia olivetorum* (Nylander) William Culberson & Chicita Culberson**

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Weststeirisches Riedelland, 16 km south of the centre of Graz, 1.7 km west-northwest of Wundschuh, Kaiserwald-area, at the northern edge of the pond 'Neuteich', 46°55'44"N, 015°25'37"E, (grid number 9058/4), elevation 335 m, along a forestry road in a mixed forest with *Quercus robur*, *Picea abies*, *Betula pendula*, etc., on branch (from the treetop area) of an oak tree (lying on the ground). – 20 September 2024, collected and determined by Walter Obermayer (16410).

Note: All issued specimens tested with spot test (C+ reddish).

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**1461. *Cladonia cenotea* (Acharius) Schaerer**

**AUSTRIA**, Kärnten (= Carinthia), Central Eastern Alps, Koralpe, 14 km northeast of the centre of Wolfsberg, path from Stoffhütte (on the Styrian side) to Bärenfen (on the Carinthian side), 46°53'15"N, 015°00'50"E, (grid number 9156/1), elevation 1560 m, conifer forest (at a gently inclined, north-facing slope), on rotten tree stumps. – 25 June 2006, collected by Josef Hafellner (70759) & Lucia Muggia, determined by Josef Hafellner.

Note: TLC (specimen in GZU tested): squamatic acid, unknown (1/1/1; UV-366 white).

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**1462. *Cladonia macilenta* Hoffmann**

**AUSTRIA**, Oberösterreich (= Upper Austria), Central Eastern Alps, Ennstaler Alpen, Bosruck Massif, east of Pyhrnpass, ridge area between the pass and 'Fuchsalm', 47°37'10"N, 014°18'35"E, (grid number 8351/4), elevation 1060 m, southeast exposed slopes of a grazed clear-cut area with numerous tree stumps, on front surfaces of rotten tree stumps. – 2 November 2007, collected by Josef Hafellner (69236) and Lucia Muggia, determined by Josef Hafellner.

Note: TLC (specimen in GZU tested twice): barbatic acid, thamnolic acid, rhodocladonic acid (in apothecia); squamatic acid (maj.; most probably from soredia of the associated *Cladonia cenotea*).

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**1463. *Cladonia macroceras* (Delise) Havaas**

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Stubalpe, Steinplan 8 km southeast of Knittelfeld, summit area just north below the summit cross, 47°09'50"N, 014°54'15"E, (grid number 8855/1), elevation 1660 m, on thick cover of bryophytes on the upper edges of the rocks. – 30 July 2005, collected and determined by Josef Hafellner (64685).

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

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**1464. *Cladonia macrophylla* (Schaerer) Stenhammar**

**AUSTRIA**, Salzburg, Central Eastern Alps, Hohe Tauern, 4 km east of the centre of Bad Gastein, valley of the brook Kötschach, 47°06'50"N, 013°11'35"E, (grid number 8845/3), elevation 1100 m, on raw-humus (above gneissic rocks). – 14 July 1995, collected by Roman Türk (20246) & Veronika Pfefferkorn, determined by Roman Türk (confirmed by Walter Obermayer, 2025).

Note: TLC (specimen in GZU tested): psoromic acid (maj.), rangiformic acid (maj.), norrangiformic acid (min.), squamatic acid (min.). All specimens show podetia with big, dark brown apothecia. Other species of *Cladonia* may be intermixed.

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

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**1465. *Cladonia rei* Schaerer**

**AUSTRIA**, Oberösterreich (= Upper Austria), Granite and Gneiss Plateau, Mühlviertel, 8.2 km northeast of Freistadt, area between the villages Spörbichl and Viehberg, 48°33' 07"N, 014°35' 44"E, (grid number 7453/2), elevation 926 m, on the coping of a granite stone wall. – 16 October 2018, collected by Roman Türk (59463), Veronika Pfefferkorn-Dellali & Ulrike Ruprecht, determined by Roman Türk (confirmed by Walter Obermayer, 2025).

Note: TLC (specimen in GZU tested): homosekikaic acid (maj.; sekikaik acid not detected), furmarprotocetraric acid (min.).

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**1466. *Coniocarpon fallax* (Acharius) Grube**

[recently used synonym: *Arthonia cinnabarina* agg.]

**AUSTRIA**, Oberösterreich (= Upper Austria), Granite and Gneiss Plateau, Mühlviertel, 5.4 km south-southeast of Neustift im Mühlkreis, valley of the river Ranna (just north of the confluence with the Danube), 550 m north of Rannamühl, 48°28'48"N, 013°46'35"E, (grid number 7548/2), elevation 300 m, gorge forest, on bark of *Fraxinus excelsior* (felled tree trunk; up to a stem height of 7 m). – 25 October 2018, collected by Franz Berger (33702a), determined by Martin Grube (2025).

Note: Spore length 16–20 µm (and thus not *C. cinnabarinum* s.str. with spores mostly longer than 20 µm). The following lichens were found on the same tree trunk and may be present on some of the distributed specimens (list compiled by the collector): *Acrocordia gemmata*, *Arthonia atra*, *Arthonia radiata*, *Arthonia ruana*, *Bacidia arceutina*, *Buellia disciformis*, *Graphis scripta* [aggregate], *Lecanora barkmaniana*, *Lecanora chlarotera*, *Lecidella euphorea*, *Phlyctis agelaea*, *Phlyctis argena*, *Pyrenula nitidella*, *Zwackhia viridis*.

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

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**1467. *Diploschistes scruposus* (Schreber) Norman**

**GREECE**, Saronic Islands, Hydra [Ἰδρυά], 550 m south-southeast of the harbour of Kamini, 37°20'35"N, 023°27'36"E, elevation 120 m, Phrygana vegetation (along a small path), on ground and red claystone. – 4 July 2013, collected and determined by Walter Obermayer (16833).

Note: TLC (specimen in GZU tested): lecanoric acid (maj.), diploschistesic acid (maj.), terpenoid (min.; 5/5-6/6).

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1468. ***Evernia divaricata*** (Linnaeus) Acharius

[all issued specimens with apothecia (!)]

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Koralpe, 6.8 km south-southwest of Modriach, 400 m north of Stoffhütte (near the raised bog See-Eben), 46°54'02"N, 015° 01'38"E, (grid number 9056/3), elevation 1430 m, mixed forest, on twigs of *Picea abies*. – 19 September 2024, collected and determined by Walter Obermayer (16516).

Note: TLC (specimen in GZU tested): usnic acid (min.), divaricatic acid (maj.), barbatic or diffractaic acid (?; min.), 2 or 3 fatty acids (min./tr.).

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1469. ***Gyalolechia fulgens*** (Swartz) Søchting,  
Frödén & Arup

[recently used synonym: *Fulgensia fulgens*]

**GREECE**, Saronic Islands, Hydra [Υδρα], halfway between the port of Kamini and the village of Vlychos [Βλυχός], 37°20'44"N, 023°27'06"E, elevation 30–40 m, Phrygana vegetation, on red claystone. – 6 July 2013, collected and determined by Walter Obermayer (16835).

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

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1470. ***Lecanactis moralesiana*** Kalb & Aptroot – type collection

[holotype in GZU, isotypes in CANB, M, NY, UPS, hb.Kalb]

**VENEZUELA**, State of Mérida, Sucre Municipality, San Juanito, a few kilometers east-north-east of Chiguará, above the hacienda 'Los Topes', 08°30'N, 071°30'W, elevation 1500 m, edge of a tropical rainforest, on bark of an unnamed tree. – 3 August 1989, collected by Klaus Kalb & Antonio Morales-Mendez (GZU000365464), determined by Klaus Kalb & André Aptroot.

Note: For the description of the species see Obermayer W. 2025: *Dupla Graecensia Lichenum* (2025, numbers 1451–1500). - Fritschiana (Graz) 103: 2.

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



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**1471. *Lecanora pulicaris* (Persoon) Acharius**

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Gleinalpe, south of Terenbachalm, 14.3 km north-northwest of the centre of Köflach, 1.1 km north-northwest of 'Oskar Schauer Sattelhaus', 150 m southeast of 'Christusstatue', 47°10'24"N, 014°59'05"E, (grid number 8855/2), elevation 1610 m, fresh clear cutting in a conifer forest, on small twigs of a felled *Larix decidua*. – 17 November 2023, collected and determined by Walter Obermayer (16256).

Note: TLC (specimen in GZU tested): atranorin, chloroatranorin, fumarprotocetraric acid, 2 or 3 strong fatty acids (or terpenoids). - The specimen in GZU contains the following accompanying lichens: *Cetraria sepincola*, *Hypogymnia physodes*, *H. tubulosa*, *Melanohalea exasperatula*, *Pseudevernia furfuracea* var. *furfuracea*, *Usnea* spec., and *Vulpicida pinastri*. The parasitic ascomycete *Lachnellula willkommii* (spores 25 × 10 µm, asci J-) is present on some twigs.

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**1472. *Lecidea silacea* (Hoffmann) Acharius**

**AUSTRIA**, Tirol, Osttirol, Central Eastern Alps, Hohe Tauern, Venediger Gruppe, 17 km north-northwest of Matrei, 3 km west-northwest of Innergschlöß, valley of the brook Gschlößbach, near Salzplatten, 47°07'52"N, 12°24'44"E, (grid number 8840/4), elevation 2100 m, on iron-rich silicate boulder. – 3 September 1998, collected and determined by Walter Obermayer (16583).

Note: TLC: unknown substance (maj; 1/1/1 ['remaining seated' at the starting point]; UV245+, UV366-quenching).

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

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**1473. *Lecidella elaeochroma* (Acharius) Maurice Choisy -  
[aggregate]**

**ITALY**, Trentino-Alto-Adige, province Bolzano (Südtirol), Southern Alps, Dolomiti, Val di Landro (Höhlenstein-Tal), eastern lakeshore of Lago di Dobbiaco (Toblacher See), 2 km south of Dobbiaco (Toblach), 46°42'15"N, 012°13'15"E, elevation 1260 m, mixed coniferous forest, on dead twigs of *Picea abies* (0.5–1.5 m above the ground). – 30 August 2002, collected by Josef Hafellner (87995), determined by Walter Obermayer (2025).

Note: cortex C-, medulla C+ orange-reddish.

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**1474. *Lepra albescens* (Hudson) Hafellner**

[recently used synonym: *Pertusaria albescens*]

**AUSTRIA**, Oberösterreich (= Upper Austria), Granite and Gneiss Plateau, Mühlviertel, 5.1 km south-southeast of Neustift im Mühlkreis, valley of the river Ranna 1.25 km north of its mouth into the river Danube (Rannamühl), between the second and the third ford, 48°29'07"N, 013°46' 36"E, (grid number 7548/2), elevation 320 m, alongside the stream, on bark of a fallen *Fraxinus excelsior*. – 27 December 2017, collected and determined by Franz Berger (32777).

Note: TLC (specimen in GZU tested): 3(–5) fatty acids of the allopertusaric acid syndrome (including dihydropertusaric acid and some other fatty acids).

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**1475. *Leprocaulon inexpectatum* Gheza, Malíček,  
Vančurová & Helmut Mayrhofer**

[paratype material]

**ITALY**, Lombardia, Province Pavia, municipality Borgo San Siro, Ticina river valley, surroundings of Cascina Torricella, 45°15'21"N, 008°57'38"E, elevation 70 m, edge of a broad-leaved forest with oak, elm, and poplar, on trunks of *Quercus robur*. – 18 March 2024, collected and determined by Gabriele Gheza (s.n.).

Note: TLC (specimen in GZU tested): usnic acid (maj.), zeorin (maj.), unknown 1 (min.; 1/1(-2)/1); seen in UV-254 before H<sub>2</sub>SO<sub>4</sub>, unknown 2 (maj., 6/5-6/6; seen as strong white spot in UV-356 before H<sub>2</sub>SO<sub>4</sub>; it could come from the bark).

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**1476. *Ophioparma rubricosa* (Müller Argoviensis) Stefan Ekman**

[recently used synonym: *Haematomma rubricosa*]

**U.S.A.**, Montana, Sanders County, Cabinet Mountains, Chippewa Creek, 48°09'56"N, 115°46'37"W, elevation 930 m, Tsuga-Thuja-forest, on bare wood (highest part of a tall fallen snag). – 29 April 2001, collected by Toby Spribille (10941), determined by Toby Spribille (confirmed by Walter Obermayer).

Note: TLC (specimen in GZU tested): usnic acid (tr.), divaricatic acid (maj.), haemoventosin (in apothecium).

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**1477. *Parmelia saxatilis* (Linnaeus) Acharius - [aggregate]**

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Grazer Bergland, 2.7 km north of the centre of Sankt Radegund, Schöckl area, 50 m southeast of the chapel Schöcklkreuz, near the parking area, 47°12'13.8"N, 015°28'58.5"E, (grid number 8758/4), elevation 1120 m, mixed forest (with *Picea abies*, *Abies alba*, *Fagus sylvatica*), on *Hypnum andoi* (in the heavily shaded, almost vertical area of a siliceous rock). – 30 December 2018, collected and determined by Walter Obermayer (16829).

Note: TLC (specimen in GZU tested): atranorin, chloroatranorin, salazinic acid, consalazinic acid, two fatty acids.

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**1478. *Parmelina tiliacea* (Hoffmann) Hale**

**AUSTRIA**, Salzburg, Northern Limestone Alps, Salzkammergut Mountains, City of Salzburg, Kapuzinerberg, 47°48'17"N, 013°03'31"E, (grid number 8144/3), elevation 654 m, on bark of *Fraxinus excelsior*. – 16 February 2025, collected and determined by Roman Türk (67620).

Note: TLC (specimen in GZU tested): atranorin, chloroatranorin (tentative; bright spot in A under UV-366 just below atranorin, before H<sub>2</sub>SO<sub>4</sub>), lecanoric acid, unknowns.

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**1479. *Physconia venusta* (Acharius) Poelt**

**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 *Fagus sylvatica*. – 19 August 2007, collected by Josef Hafellner (80513) [excursion together with Mauro Tretiach, Lucia Muggia, Massimiliano Piccotto, and Jani Marka], determined by Walter Obermayer (2025).

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

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**1480. *Placidium squamulosum* (Acharius) Breuss**

**GREECE**, Rhodes, near the bay of Navarone, between Lindos and Pefki (= Pefkos), 2.2 km southwest of the centre of Lindos, 900 m east-southeast of the switchback of the road (which is near the 'Prophet Elias monastery'), base area of steep cliffs, 36°04'30"N, 028°04'16"E, elevation 40 m, Phrygana vegetation, on consolidated ground layer (over limestone rocks). – 11 September 2020, collected and determined by Walter Obermayer (15321).

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

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**1481. *Protoparmelia phaeonesos* Poelt**

[parasitic on *Aspilidea myrinii*]

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Murberge, 6 km south-southwest of Krakaudorf, near the summit of Gstoder, 47°08'35"N, 013°59'34"E, (grid number 8849/4), elevation 2100 m, alpine vegetation with siliceous boulders, on gneissic outcrops. – 16 June 1995, collected and determined by Roman Türk (20222).

Note: TLC (specimen in GZU tested): norstictic acid, connorstictic acid, unknown (maj.; 5/5/4-5; bright blue in UV366+245 after H<sub>2</sub>SO<sub>4</sub>; running heights and colour characteristics are close to those of loxodin).

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
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**1482. *Pycnora praestabilis* (Nylander) Hafellner**

[recently used synonym: *Hypocenomyce praestabilis*]

**AUSTRIA**, Salzburg, Northern Limestone Alps, Salzkammergut Mountains, 2 km north-northeast of Fuschl am See, path from the Wartenfels castle ruins to the Schober (just below the summit), 47°48'46"N, 013°18'43"E, (grid number 8145/4), elevation 1270 m, on snag of *Picea abies*. – 15 August 1997, collected and determined by Roman Türk (23193).

Note: TLC (specimen in GZU tested): alectorialic acid (maj.), barbatolic acid (tr.). Due to their alectorialic acid content (in connection with an aging process of almost 30 years), all thalli are slightly reddish in colour.

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**1483. *Pycnora sorophora* (Vainio) Hafellner**

[recently used synonym: *Hypocenomyce sorophora*]

**AUSTRIA**, Oberösterreich (= Upper Austria), Northern Limestone Alps, Traunstein, 5.9 km south-southeast of Gmunden, along the path 'Naturfreundesteig' to the summit of Traunstein, 600 m south-southwest of the mountain hut Traunsteinhaus, 47°51'54"N, 013°49'25"E, (grid number 8148/2), elevation 1150 m, on snag of *Picea abies*. – 5 June 1996, collected and determined by Roman Türk (21410).

Note: TLC (specimen in GZU tested): alectorialic acid (maj.), barbatolic acid (min.). Due to their alectorialic acid content (in connection with an aging process of almost 30 years), all thalli are slightly reddish in colour. In all specimens intermixed with the sorediate lichen *Buellia arborea* (TLC: atranorin, placodiolic acid).

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**1484. *Pyrenula nitidella* (Schaerer) Müller Argoviensis**

**AUSTRIA**, Oberösterreich (= Upper Austria), Granite and Gneiss Plateau, Mühlviertel, 5.4 km south-southeast of Neustift im Mühlkreis, valley of the river Ranna (just north of the confluence with the Danube), 550 m north of Rannamühl, 48°28'48"N, 013°46'35"E, (grid number 7548/2), elevation 300 m, gorge forest, on bark of *Fraxinus excelsior* (felled tree trunk; up to a stem height of 7 m). – 25 October 2018, collected and determined by Franz Berger (33702b).

Note: Most thalli are dark brown, do not have conspicuous pseudocyphellae, have perithecia with a KOH-violet reaction (in median section), and develop spores with a length of 25–28 µm. Very light-coloured thalli (possibly a different species) with perithecia that show almost no colour reaction in KOH and slightly shorter spores (up to 24 µm) may occur in between (e.g., the specimen in GZU).

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Distributed by the herbarium GZU, University of Graz, Austria.

**1485. *Ramalina pollinaria* (Westring) Acharius**

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Seetaler Alpen, south facing slopes of Kreuzeck (3.5 km west-southwest of Perchau am Sattel), 1.3 km southeast of the church of Mariahof, surroundings of the abandoned farmstead 'Moar am Berg', 47°05'40"N, 014°25'00", (grid number 8952/1-2), elevation 1045 m, meadows with outcrops of greenschist, on low, south exposed steep rock faces (along the road). – 8 September 2024, collected and determined by Walter Obermayer (16381).

Note: TLC (specimen in GZU tested): evernic acid, usnic acid (tr.).

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

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**1486. *Ramalina requienii* (De Notarius) Jatta**

**GREECE**, Saronic Islands, Hydra [Υδρα], halfway between the port of Kamini and Vlychos [Βλυχός], 37°20'44"N, 023°27'06"E, elevation 30–40 m, Phrygana vegetation, on red clay-stone. – 6 July 2013, collected and determined by Walter Obermayer (16831).

Note: TLC (specimen in GZU tested): divaricatic acid (maj.), usnic acid (tr.).

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
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**1487. *Rinodina exigua* (Acharius) Gray**

**GREECE**, Central Macedonia [Κεντρική Μακεδονία], Athos peninsula, in the hinterland north of Ouranoupoli (Ουρανούπολη), 40°20'N, 023°59'E, elevation 40 m, on bark of *Olea europaea*. – 17 June 1994, collected and determined by Helmut Mayrhofer (22235) [excursion together with Herwig Teppner].

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

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

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Distributed by the herbarium GZU, University of Graz, Austria.

1488. ***Rinodina mniaroea*** (Acharius) Körber

**FRANCE**, Auvergne-Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, path along the cable car route from 'Les Grandes Platières' to 'Tête Pelouse', 10.3 km northeast of the centre of Sallanches, 1.3 km northeast of the cable car station, 45°59'37"N, 006°43'54"E, elevation 2370 m, layered limestone and patches of alpine vegetation, on plant remnants and mats of bryophytes. – 19 August 2011, collected by Walter Obermayer (13739) & Helmut Mayrhofer, determined by Helmut Mayrhofer (2025).

Note: TLC (five single thalli in GZU tested): No major substances detected (p.p. traces of a terpenoid-like substance 5/5-6/6).

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

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Distributed by the herbarium GZU, University of Graz, Austria.

1489. ***Rinodina pyrina*** (Acharius) Arnold

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Gleinalpe, 10.5 km southeast of the center of Leoben, Hochalpe, summit of Wetterkogel, 47°20'04"N, 015°12'29"E, elevation 1643 m, on dead branches of *Sambucus racemosa*. – 1 October 2024, collected and determined by Helmut Mayrhofer (22212).

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
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1490. ***Rinodina septentrionalis*** Malme

**U.S.A.**, Alaska, Fairbanks North Star Borough, about 50 km east of Fairbanks, Chena River, Compeau Trailhead, just off Chena Hot Springs Road, 64°53'35"N, 146°41'11"W, elevation 293 m, boreal forest, on *Betula neoalaskana*. – 13 August 2008, collected and determined by Toby Spribille (27569).

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

1491. ***Solorina saccata*** (Linnaeus) Acharius

**SLOVENIA**, Southern Limestone Alps, Julian Alps, 3.5 km east-southeast of Kranjska Gora, 1.8 km southwest of Gozd Martuljek, close to the waterfall 'Spodnji Slap', 46°28'22.5"N, 013°49'41.5"E, elevation 780 m, along a hiking trail in a mixed forest (over calcareous bedrock), on the ground and overgrowing rotten branches. – 5 August 1980, collected by Monika Wimmer (s.n.), determined by Walter Obermayer (2024).

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

1492. ***Stereocaulon alpinum*** Laurer - [aggregate]

**AUSTRIA**, Tirol, Central Eastern Alps, Silvretta Alpen, 10.7 km south-southwest of Galtür, near the glacier Jamtalferner, along the lateral moraine of the year 1850, 46°52'19"N, 010°10'10"E, (grid number 9127/1), elevation 2410 m, on moraine debris. – 4 July 2018, collected by Roman Türk (59100), determined by Walter Obermayer.

Note: TLC (specimen in GZU tested): atranorin [no chloroatr.], lobaric acid; richly fruiting material.

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

1493. ***Stereocaulon paschale*** (Linnaeus) Hoffmann - [aggregate]

**CANADA**, Quebec Province, Gaspé Peninsula (Gaspésie), Forillon National Park, 5 km east-northeast of Gaspé, 'Penouille Peninsula', 1 km southwest of the parking place, 48°51'08"N, 064°25'28"W, elevation 1 m, *Cladonia* heath beside a road, on ground. – 19 August 1997, collected by Dagmar Triebel & Gerhard Rambold (s.n.), determined by Walter Obermayer (2025).

Note: TLC (specimen in GZU tested): atranorin [no chloroatranorin], lobaric acid.

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
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1494. ***Stereocaulon vesuvianum*** Persoon  
var. ***nodulosum*** (Wallroth) Ivan Mackenzie Lamb

**RUSSIA**, Murmansk Region, Barents Sea coast, at the mouth of the Voronya [Воронья] River, 69°09'N, 35°49'E, elevation 10–20 m, rocks among sand dunes on the river terrace, on scree, stones and sand (abundant). – 30 August 1997, collected and determined by Mikhail Zhurbenko (9751).

Note: TLC: stictic acid (maj.; related substances in traces but no norstictic acid), atranorin (maj.).

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

1495. ***Thamnolia vermicularis*** (Swartz) Schaerer  
[in the sense of a *Thamnolia* entity containing thamnolic acid]

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Wölzer Tauern, mountain area 4 km west of Pusterwald, uppermost north-exposed slopes of the ridge between the summits Steineck and Stubenberg, 47°17'40"N, 014°18'10"E, (grid number 8751/2), elevation 2170 m, open, alpine vegetation with garnet-mica-slate boulders, on ground (amongst dwarf shrubs). – 12 August 2012, collected by Josef Hafellner (80921), Lucia Muggia and Angela Hafellner, determined by Josef Hafellner.

Note: TLC (specimen in GZU tested): thamnolic acid (maj.), decarboxythamnolic acid (tr.). Worm-like thalli up to 8 cm tall and up to 6 mm thick.

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

**1496. *Trapelia corticola* Coppins & Peter James**

**AUSTRIA**, Kärnten (= Carinthia), Central Eastern Alps, Gurktaler Alpen, 10.5 km southeast of the centre of 'Spittal an der Drau', just southwest of Döbriach, hiking trail along the south shore of the lake 'Millstätter See', 46°45'50"N, 013°37'50"E, (grid number 9247/2), elevation 621 m, on strongly decaying wood of *Picea abies*. – 17 September 1996, collected by Roman Türk (21317), determined by Walter Obermayer (2025), confirmed by Philipp Resl.

Note: TLC (specimen in GZU tested): gyrophoric acid, unknown (6/6/6; UV-366 whitish before H<sub>2</sub>SO<sub>4</sub>; probably from the substrate). Specimens in GZU, UPS, and PRA with apothecioid structures (very small, only 0.15–0.2 mm in diameter, which is typical for this species), but no asci or spores were found.

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

**1497. *Umbilicaria* cf. *proboscidea* (Linnaeus) Schrader**

**SWEDEN**, Norrbottens län ('Torne Lappmark'), 20 km west of the northernmost part of the lake Torneträsk, southwest of the village Riksgränsen, summit plateau of Katternjunnje, 68° 25'N, 018°17'E, elevation 900 m, on rocks. – 9 August 1980, collected by Helmut Mayrhofer (1407) & Josef Poelt, determined by Walter Obermayer (2025).

Note: TLC (specimen in GZU tested): gyrophoric acid (maj.), lecanoric acid (min.), ovoic acid (min.), [norstictic acid not detected]. The determination is based on the following characters (see: Brodo I.M. 2016: Keys to Lichens of North America. Revised and Expanded. - Yale University Press (New Haven and London)): upper surface and lower surface pruinose, lower side without rhizines, apothecial disks with concentric ridges of sterile tissue.

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

OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

**1498. *Vulpicida pinastri* (Scopoli) Jan-Eric Mattsson**

[recently used synonym: *Cetraria pinastri*]

**AUSTRIA**, Steiermark (= Styria), Central Eastern Alps, Gleinalpe, south of Terenbachalm, 14.5 km north-northwest of the centre of Köflach, forest area 1.25 km northwest of 'Oskar Schauer Sattelhaus', 47°10'20"N, 014°58'55"E, (grid number 8855/2), elevation 1560 m, mixed forest with *Picea abies* and *Larix decidua*, on small twigs of *Picea abies* (near the ground). – 17 November 2023, collected and determined by Walter Obermayer (16255).

Note: TLC (specimen in GZU tested): pinastric acid (maj.), vulpinic acid (min.), usnic acid (min.), additional yellow pigment (min.; in B' and C at the height of lecanoric acid).

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OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

1499. ***Xanthoparmelia attica*** (Leuckert, Poelt & Brigitte Schwarz)  
Oscar Blanco, Ana Crespo, Elix, David Hawksworth & Lumbsch  
[recently used synonym: *Neofuscelia attica*]

**GREECE**, Saronic Islands, Hydra [Υδρα], 550 m south-southeast of the harbour of Kamini, 37°20'35"N, 023°27'36"E, elevation 120 m, Phrygana vegetation (along a small path), on red claystone. – 4 July 2013, collected and determined by Walter Obermayer (16834).

Note: TLC (specimen in GZU tested): norstictic acid. Spot test: medulla KOH+ red (norstictic acid; all issued specimens tested).

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OBERMAYER W. 2025: **Dupla Graecensia Lichenum** (numbers 1451–1500). - Fritschiana (Graz) 103: 1–17.  
Distributed by the herbarium GZU, University of Graz, Austria.

1500. ***Xylopsora caradocensis*** (Nylander) Bendiksby & Timdal  
[recently used synonym: *Hypocenomyce caradocensis*]

**AUSTRIA**, Oberösterreich (= Upper Austria), Northern Limestone Alps, Schafberg, Purtschellerweg, just west of the lake Mönichsee ('Münichsee'), 47°46'05"N, 013°27'03"E, (grid number 8246/2), elevation 1360 m, standing dead wood of *Picea abies*. – 19 September 1996, collected and determined by Roman Türk (21291).

Note: TLC (specimen in GZU tested): friesiic acid. All issued specimens contain thalli with apothecia (mainly mounted on the right side of the cardboards).

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