

## Lichenotheca Graecensis, Fasc. 18–20 (Nos 341–400)

Walter OBERMAYER\*

OBERMAYER W. 2011: Lichenotheca Graecensis, Fasc. 18–20 (Nos 341–400). - Fritschiana (Graz) 69: 1–16. - ISSN 1024-0306.

**Abstract:** Fascicles 18, 19, and 20 of Lichenotheca Graecensis comprise 60 collections of lichens from the following countries (and administrative subdivisions): Australia (New South Wales; Victoria), Austria (Carinthia; Salzburg; Styria; Tirol; Upper Austria; Vienna), Canada (British Columbia; Québec), France (Rhône-Alpes), Germany (Baden-Württemberg; Saxony Anhalt), Italy (Emilia-Romagna; Trentino-Alto Adige; Veneto Region), Russia (Buryatia Republic), Slovenia, Switzerland (Valais), and Uruguay (Rio Negro). TLC-analyses were carried out for *Alectoria sarmentosa*, *Buellia arborea*, *Chrysothrix candelaris*, *Cladonia fimbriata*, *Dimelaena oreina* (partly chemotype Vb with hypostictic acid), *Lecanora marginata*, *Lecidea atrobrunnea*, *Lecidea umbonata*, *Lepraria vouauxii*, *Protomicarea limosa*, and *Stereocaulon vesuvianum*. Fertile material of rarely fruiting taxa like *Alectoria sarmentosa*, *Candelariella reflexa*, *Hyperphyscia adglutinata*, and *Seiophora contortuplicata*, as well as paratype specimens of *Xanthoria coomae* (Australia) are included.

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The exsiccata series 'Lichenotheca Graecensis' is distributed on exchange basis to the following 19 public herbaria and to one private collection (herbarium abbreviations follow <http://sciweb.nybg.org/science2/IndexHerbariorum.asp>): ASU, B, C, CANB, CANL, E, G, GZU, H, HAL, HMAS, LE, M, MAF, MIN, O, PRA, TNS, UPS, Klaus KALB. A text version of Lichenotheca Graecensis can be found under <http://www.uni-graz.at/walter.obermayer/li-grz1.htm>, a pdf-file is stored under <http://www.uni-graz.at/walter.obermayer/lichenotheca-graecensis-18-20.pdf>. Label texts originally drafted in a local language have been translated into English by the author.

I wish to thank all lichenologists who have made their lichen material available, particularly Franz BATIČ, Franz BERGER, Siegfried HUNECK (†), Sergey KONDRATYUK, Helmut MAYRHOFER, Héctor S. OSORIO, Gerhard RAMBOLD, Toby SPRIBILLE, Roman TÜRK, and Gennadii URBANAVICHUS.

Several specimens have been kindly determined by Josef HAFELLNER, Hannes HERTEL, and Helmut MAYRHOFER.

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### 341. *Alectoria sarmentosa* (Ach.) Ach.

**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, 970 m above sea level, grid number 8739/3, on *Picea abies*, 1 November 2010, collected and determined by Roman Türk (48024).

Note: TLC (specimen in GZU tested): Alectoronic acid (maj.), usnic acid, unknown (2-3/5/2-3; major in type 2). The specimen in GZU consists of two morphological types: one is brownish-greenish with branches being terete at their point of attachment (most issued specimens represent this type), the other one is yellowish-greenish with branches being compressed at their base.

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### 342. *Alectoria sarmentosa* (Ach.) Ach

**CANADA**, British Columbia, West Kootenays, north edge of flat at mouth of the Halfway River on Upper Arrow Lake, 50°27.112'N, 117°53.453'W, 477 m above sea level, low montane forest, on branches of *Tsuga heterophylla*, 19 October 2009, collected and determined by Toby Spribille (33410).

Note: TLC (specimen in GZU tested): Usnic acid, alectoronic acid, unknown 2-3/5/2-3 (tr.). A replicate of this collection (at GZU) is the basis for GenBank DNA vouchers JN009675 (EF1-a), JN009706 (IST), and JN009737 (Mcm7). Specimen in GZU and some other herbaria with apothecia. Some specimens with intermixed *Bryoria capillaris*.

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### 343. *Alyxoria varia* (Pers.) Ertz & Tehler (Syn.: *Opegrapha varia*)

**AUSTRIA**, Oberösterreich (=Upper Austria), 5.1 km ESE of the centre of Eferding, 2 km NW of Alkoven, Eckhartsau, along the secondary branch of the brook Innbach, 48°18'10"N, 014°05'29"E, 260 m above sea level, grid number 7650/4, on bark of very old, pollarded willow (*Salix fragilis*), 14 May 2010, collected and determined by Franz Berger (s.n.).

Note: Some specimens are intermixed with *Opegrapha vermicellifera*.

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### 344. *Amandinea lecideina* (H.Mayrhofer & Poelt) Scheid. & H.Mayrhofer

**AUSTRALIA**, Victoria, 13 km SW of Hastings, Merricks Beach, 38°24'06"S, 145°06'00"E, 2 m above sea level, coastal rocks behind the beach, on rock, 13 April 1986, collected by Gerhard Rambold (5587), determined by Helmut Mayrhofer (2011).

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### 345. *Biatora globulosa* (Flörke) Fr.

(Syn.: *Bacidia globulosa*, *Lecania globulosa*)

**AUSTRIA**, Tirol, Northern Limestone Alps, Karwendel, 12 km NNE of the centre of Innsbruck, 11.8 km ESE of Scharnitz, Hinterautal, 800 m E of Isar-Ursprung, 47°22'27"N, 011°25'09"E, 800 m above sea level, grid number 8634/2, on bark of *Acer pseudoplatanus*, 13 September 2008, collected by Roman Türk (44064) and Heidelinde Sofie Pfleger, determined by Roman Türk.

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### 346. *Buellia arborea* Coppins & Tønsberg

**AUSTRIA**, Oberösterreich (=Upper Austria), mountain area of Höllengebirge, 1.8 km NE of Weißenbach am Attersee, ridge area of Mahdlschneid, path to the summit Brennerin, 47°48'25"N, 013°33'41"E, 1255 m above sea level, grid number 8147/3, on snag of *Picea abies*, 14 October 2010, collected by Roman Türk (47466), determined by Walter Obermayer.

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

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### 347. *Caloplaca cerina* (Ehrh. ex Hedw.) Th.Fr.

**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 (12197).

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### 348. *Caloplaca herbidella* (Hue) H.Magn.

**ITALY**, Trentino-Alto Adige, Provincia di Bolzano (=Südtirol), Val di Bráies (=Pragser Tal) S of Monguelfo (=Welsberg), 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 small twigs of *Picea abies*, 4 September 2002, collected by Walter Obermayer (12189), determined by Josef Hafellner (2011).

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### 349. *Candelariella aurella* (Hoffm.) Zahlbr.

**AUSTRIA**, Wien (=Vienna), 23<sup>rd</sup> Municipal District, street corner of Maurer-Lange-Gasse and Rodauner-Straße, 48°08'53"N, 016°15'44"E, 265 m above sea level, grid number 7863/4, on roof tiles ('Eternit'), 5 February 1990, collected by K.L. Plsek (s.n., ex herbario W. Brunnbauer), determined by Walter Obermayer (2011).

Note: Partly intermixed with another *Candelariella* showing a placodioid thallus composed of radiating lobes, which are raised from the substrate at the margin. The thalli resemble *Candelariella medians* but are richly fruiting in the centre.

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### 350. *Candelariella reflexa* (Nyl.) Lettau

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), 17.5 km NE of the centre of Salzburg, Wenig am Wallersee, 47°55'50"N, 013°10'35"E, 512 m above sea level, grid number 8045/3, on bark of *Fraxinus excelsior*, 11 April 2010, collected and determined by Roman Türk (46619).

Note: Richly fruiting material!

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### 351. *Celothelium lutescens* F.Berger & Aptroot

**AUSTRIA**, Oberösterreich (=Upper Austria), Rohrbach district, municipality Pfarrkirchen im Mühlkreis, valley of the river Ranna, 1.5 km NW of Niederranna, 48°28'52"N, 013°46'37.7"E, 320 m above sea level, grid number 7548/2, on bark of *Prunus avium*, 8 March 2011, collected and determined by Franz Berger (25268).

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### 352. *Cetraria muricata* (Ach.) Eckfeld

**AUSTRIA**, Tirol, Osttirol, Carnic Alps, 9 km SE of Sillian, surrounding area of the lake Obstanser See, 46°41'03"N, 012°29'46"E, 2370 m above sea level, grid number 9340/2, on siliceous ground (over rocky ridge), 4 July 2005, collected and determined by Roman Türk (37620).

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### 353. *Chaenotheca brunneola* (Ach.) Müll.Arg.

**GERMANY**, Baden-Württemberg, 30 km SW of the centre of Würzburg, Main-Tauber district, valley of the river Tauber, between Tauberbischofsheim and Lauda, Alte Miltenberger Steige, NW-facing slope of Ölturm, 49°34'45"N, 009°40'56"E, 280 m above sea level, grid number 6424/1, on bark of *Robinia pseudacacia*, 15 April 2004, collected by Roman Türk (34585), determined by Walter Obermayer (2011).

Note: Spores almost globose, 3-4 µm, thallus UV+ yellowish-white and Pd+ yellowish-red, algae of the trebouxioid type.

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### 354. *Chaenotheca ferruginea* (Turner & Borrer) Mig.

**AUSTRIA**, Tirol, Ötztal, 12 km SE of Imst, 1.3 km SSW of Ötz, south shore of the lake Piburger See, 47°11'37"N, 010°53'24"E, 970 m above sea level, grid number 8831/1, on *Larix decidua*, 9 June 2007, collected by Roman Türk (41965), Heidelinde Sofie Pfleger and Erika Kainhofer, determined by Roman Türk.

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### 355. *Chrysothrix candelaris* (L.) J.R.Laundon

**AUSTRIA**, Salzburg, Hohe Tauern, Venediger Group, 5.8 km SSW of Neukirchen am Großvenediger, Obersulzbachtal, S of Hopffeldboden, 47°12'11"N, 012°15'16"E, 1130 m above sea level, grid number 8739/4, on *Picea abies*, 1 November 2010, collected and determined by Roman Türk (48090).

Note: TLC: Pinastric acid (specimen in GZU and three additional duplicates tested).

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### 356. *Cladonia fimbriata* (L.) Fr.

**AUSTRIA**, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), E-facing slopes of Grebenzen, 1.6 km SW of Zeutschach, 600 m W of the farmhouse Wegscheider, 47°21'10"N, 014°03'35"E, 1080 m above sea level, grid number 8952/1, forest with *Picea abies* and *Larix decidua*, on plant remnants along a forestry road, 13 August 2010, collected and determined by Walter Obermayer (12000).

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

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### 357. *Dimelaena oreina* (Ach.) Norman (chemotypes Va and/or Vb)

**RUSSIA**, Southern Siberia, Buryatia Republic (near Mongolia boundary), Dzhida district, Dzhida Range, SE of Petropavlovka town, 50°34'04.2"N, 105°26'35.8"E, 660–670 m above sea level, steppe, S-exposed slope, on rocks, 26 August 2007, collected and determined by Gennadii Urbanavichus (s.n.).

Note: TLC: All specimens have been tested once (15 samples) or twice (6 samples). Chemotype Va (usnic acid, stictic acid, constictic acid [tr.], norstictic acid [tr.], menegazziaic acid [tr.]) is present in 13 specimens, chemotype Vb (usnic acid, stictic acid, hypostictic acid [min.], constictic acid [tr.]) is present in 11 specimens. Six tested specimens contain both chemotypes. Chemotype Vb (with hypostictic acid) was hitherto known only from Tibet and Nepal (see OBERMAYER et al. 2004, *Symbolae Botanicae Upsaliensis* 327–342). Many specimens show intermixed *Pleopsidium* cf. *flavum*.

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### 358. *Elixia flexella* (Ach.) Lumbsch

**AUSTRIA**, Oberösterreich (=Upper Austria), Totes Gebirge, SE-facing slopes of Warscheneck, 6.3 km WSW of Spital am Pyhrn, 1.8 km W of Wurzeralm, 47°38'31"N, 014°16'03"E, 1600 m above sea level, grid number 8351/4, subalpine forest with *Larix decidua* and *Pinus cembra* (over limestone), on decorticated stump of *Larix decidua*, 4 August 2010, collected and determined by Franz Berger (s.n.).

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### 359. *Esslingeriana idahoensis* (Essl.) Hale & M.J.Lai

**CANADA**, British Columbia, Central Interior, Upper Clearwater Valley, Trophy Mountains, Third Canyon, above Upper Clearwater Road, 51°47.226'N, 120°00.558'W, 827 m above sea level, mixed montane conifer forest, on bark of *Pseudotsuga menziesii*, 20 October 2009, collected and determined by Toby Spribille (33453).

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### 360. *Hyperphyscia adglutinata* (Flörke) H.Mayrhofer & Poelt

**AUSTRIA**, Salzburg, town area of Salzburg, Hellbrunner Allee, between the castle of Emsburg and the castle of Frohnburg, 47°46'33"N, 013°03'40"E, 425 m above sea level, grid number 8244/1, on bark of *Acer pseudoplatanus*, 7 April 2011, collected by Roman Türk (48326) and Krista Buberl, determined by Roman Türk.

Note: Many of the issued duplicates are fertile.

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### 361. *Hypogymnia occidentalis* L.H.Pike

**CANADA**, British Columbia, Central Interior, Upper Clearwater Valley, Trophy Mountains, off Battle Mountain Road, along hiking trail, 51°53.110'N, 119°58.822'W, 854 m above sea level, mixed montane conifer forest, on bark of twigs of *Pseudotsuga menziesii*, 21 October 2009, collected and determined by Toby Spribille (33502) [excursion together with Curtis R. Björk and Trevor Goward].

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### 362. *Lecanactis abietina* (Ach.) Körb.

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), 4.4 km SSE of Neumarkt am Wallersee, valley of the brook Steinbach, along the road from Haslach to Jägerwiese, 47°54'46"N, 013°15'30"E, 625 m above sea level, grid number 8045/4, cool humid mixed forest (in a hollow), on bark of *Picea abies*, 26 September 2007, collected and determined by Roman Türk (41671) [excursion together with Erich Zimmermann and Heidelinde Sofie Pfleger].

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### 363. *Lecanora marginata* (Schaer.) Hertel & Rambold

**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 (12257).

Note: TLC (specimen in GZU tested): Atranorin, usnic acid, terpenoids.

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### 364. *Lecanora persimilis* (Th.Fr.) Nyl.

**AUSTRIA**, Oberösterreich (=Upper Austria), Schärding district, 17 km E of the centre of Schärding, Kopfung im Innkreis, 48°26'25"N, 013°39'30"E, 550 m above sea level, grid number 7547/4, alley (*Populus canadensis*) along main street, on bark of *Populus canadensis*, 3 February 2001, collected and determined by Franz Berger (s.n.).

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### 365. *Lecidea atrobrunnea* (Ramond ex Lam. & DC.) Schaer.

**FRANCE**, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Chablais Alps, 10.7 km NE of the centre of Sallanches, 1.7 km NE of the cable car station of Les Grandes Platières, SE-facing slopes of Tête Pelouse, 45°59'52"N, 006°44'01"E, 2370-2380 m above sea level, boulder field with andesit blocks, on inclined rock faces, 19 August 2011, collected and determined by Walter Obermayer (12198).

Note: TLC (specimens in GZU and 10 other herbaria tested): 2'-O-Methylperlatolic acid.

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### 366. *Lecidea inops* Th.Fr.

**GERMANY**, Sachsen-Anhalt (=Saxony-Anhalt), 29 km NW of the centre of Halle an der Saale, between Heiligenthal and Augsdorf, mine pile of the former Paulschacht, 51°36'14"N, 011°35'27"E, 190 m above sea level, grid number 4335/4, on schist, 18 August 1991, collected and determined by Siegfried Huneck (s.n.).

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### 367. *Lecidea umbonata* (Hepp) Mudd

**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), on slightly inclined to vertical rock faces, 20 August 2011, collected by Walter Obermayer (12250), determined by Hannes Hertel (2011).

Note: TLC (specimen in GZU tested): Fatty acid (2-3/2-3/3).

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### 368. *Lepraria vouauxii* (Hue) R.C.Harris

**AUSTRIA**, Kärnten (=Carinthia), E-facing slopes of Villacher Alpe, Warmbad Villach, Kadischen-Allee, 46°35'22"N, 013°49'37"E, 500 m above sea level, grid number 9448/2, alley trees, on bark of *Ulmus laevis*, 29 March 2010, collected and determined by Helmut Mayrhofer (18115).

Note: TLC (specimen in GZU tested by Helmut Mayrhofer): Pannaric acid 6-methylester.

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### 369. *Mycoblastus affinis* (Schaer.) T.Schauer

**SLOVENIA**, Julijske Alpe (=Julian Alps), 10 km W of Bled, Triglav National Park, Pokljuka, Krucmanove konte, 46°21'50"N, 013°58'35"E, 1250 m above sea level, forest with *Picea abies*, on bark of *Picea abies*, 16 July 2009, collected by Franc Batič (s.n.), determined by Toby Spribille (2009).

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### 370. *Normandina pulchella* (Borrer) Nyl.

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), 19 km E of the centre of Salzburg, 1.8 km NNE of Fuschl am See, slopes of the mountain Schober, 47°48'49"N, 013°18'35"E, 1160 m above sea level, grid number 8145/4, on bark of *Acer pseudoplatanus* (covered with bryophytes), 13 October 2010, collected and determined by Roman Türk (47369).

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### 371. *Normandina pulchella* (Borrer) Nyl.

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), St.Gilgen, path from Scharflingpass to Almkogel, near Mühlauer Alm, 47°47'32"N, 013°23'10"E, 665 m above sea level, grid number 8246/1, on bark of *Fraxinus excelsior* covered with bryophytes, 12 October 2011, collected and determined by Roman Türk (49998).

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### 372. *Opegrapha vermicellifera* (Kunze) J.R.Laundon

**AUSTRIA**, Oberösterreich (=Upper Austria), 5.1 km ESE of the centre of Eferding, 2 km NW of Alkoven, Eckhartsau, along the secondary branch of the brook Innbach, 48°18'10"N, 014°05'29"E, 260 m above sea level, grid number 7650/4, on bark of very old, pollarded willow (*Salix fragilis*), 14 May 2010, collected and determined by Franz Berger (s.n.).

Note: Some specimens are intermixed with *Alyxoria* (= *Opegrapha*) *varia*.

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### 373. *Opegrapha vermicellifera* (Kunze) J.R.Laundon

**AUSTRIA**, Oberösterreich (=Upper Austria), 6.8 km ESE of the centre of Mondsee, valley of the brook Wangauer Ache, between Oberwang and Loibichl, 47°51'03"N, 013°26'22"E, 560 m above sea level, grid number 8146/4, on bark of *Acer pseudoplatanus*, 4 May 2008, collected and determined by Roman Türk (43300).

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### 374. *Opegrapha vermicellifera* (Kunze) J.R.Laundon

**AUSTRIA**, Oberösterreich (=Upper Austria), district Ried im Innkreis, 29 km ENE of Braunau am Inn, along the rivulet Antisen, near Hübing, 48°20'21"N, 013°24'47"E, 320 m above sea level, grid number 7646/3, riparian forest, on bark of old *Salix*, 19 November 2000, collected and determined by Franz Berger (s.n.).

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### 375. *Parmotrema arnoldii* (Du Rietz) Hale

**AUSTRIA**, Oberösterreich (=Upper Austria), Totes Gebirge, 10.7 km S of Grünau im Almtal, E-shore of the lake Almsee, 47°45'25"N, 013°57'44"E, 615 m above sea level, grid number 8249/2, on *Picea abies*, 12 March 2007, collected by Roman Türk (41426), determined by Roman Türk and Walter Obermayer.

Note: TLC (specimen in GZU tested): Atranorin, alectoronic acid,  $\alpha$ -collatolic acid. All other issued specimens have been tested by means of an UV-lamp: UV+ ice-blue soralia and medulla). The specimen in GZU additionally contains *Parmotrema crinitum* (TLC: atranorin, stictic acid, constictic acid).

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### 376. *Pertusaria oculata* (Dicks.) Th.Fr.

**SWITZERLAND**, Wallis (=Valais), 8 km NNE of Naters, Riederalp, ridge area between Hofluh and Moosfluh, 46°23'25"N, 008°02'12"E, 2200 m above sea level, on bryophytes (above siliceous substrate), 17 August 2003, collected by Roman Türk (37946), Erich Zimmermann and Christian Vornaburg, determined by Roman Türk.

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### 377. *Phlyctis argena* (Spreng.) Flot.

**ITALY**, Veneto Region, Provincia di Belluno, Nevegal SE of Belluno, surroundings of the middle station of the chair-lift on Col Faverghera, 46°05'10"N, 012°17'20"E, 1200-1300 m above sea level, mixed forest (slopes exposed to NE), on bark of old *Populus tremula*, 31 August 2002, collected and determined by Walter Obermayer (12191).

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### 378. *Protomicarea limosa* (Ach.) Hafellner

**FRANCE**, Rhône-Alpes, Haute-Savoie, Western Alps, Graian Alps, Mont Blanc group, 3.2 km SSE above Chamonix, 300 m SSE of the cable car station at Plan de l'Aiguille, 45°53'57"N, 006°53'12"E, 2295 m above sea level, alpine vegetation with siliceous outcrops, on ground, 18 August 2011, collected and determined by Walter Obermayer (12265).

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

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### 379. *Pseudephebe pubescens* (L.) M.Choisy

**AUSTRIA**, Tirol, Ötztaler Alpen, 50 km S of Imst, 6.7 km SSW of Vent, SE of Martin Busch Haus, 46°47'57"N, 010°52'47"E, 2580 m above sea level, grid number 9231/1, on gneissic boulder, 11 August 2011, collected and determined by Roman Türk (49630).

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### 380. *Ramalina aspera* Räsänen

**URUGUAY**, Departamento de Rio Negro, Rio Uruguay and Arroyo Laureles, 33° 06'S, 058°13'W, on branches of trees, 20 October 2009, collected by Fabrizio Scarabino and Christian Clavijo (herbarium Osorio no. 9732), determined by Héctor S. Osorio (2010).

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### 381. *Ramalina celastri* (Spreng.) Krog & Swinscow

**URUGUAY**, Departamento de Rio Negro, Rio Uruguay and Arroyo Laureles, 33°06'S, 058°13'W, on branches of trees, 12 September 2009, collected by Fabrizio Scarabino and Christian Clavijo (s.n., herbarium Osorio no. 9733), determined by Héctor S. Osorio (2010).

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### 382. *Ramalina dilacerata* (Hoffm.) Hoffm.

**CANADA**, Québec, La-Côte-de-Gaspé Municipality, 5.9 km NE of town of Gaspé, parking lot at headquarters of Forillon National Park, 48°51.366'N, 064°24.788'W, 3 m above sea level, on bark of twigs of planted *Picea* trees (surrounding parking lot), 2 October 2009, collected and determined by Toby Spribille (32618) [excursion together with Viktoria Wagner].

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### 383. *Ramalina thrausta* (Ach.) Nyl.

**CANADA**, British Columbia, Central Interior, Upper Clearwater Valley, off Battle Mountain Road, along hiking trail, 51°53.045'N, 119°59.434'W, 788 m above sea level, montane spruce (*Picea glauca* × *P. engelmannii*) swamp, at edge of marsh, on branches of *Picea*, 23 October 2009, collected and determined by Toby Spribille (33561) [excursion together with Trevor Goward].

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### 384. *Ramalina thrausta* (Ach.) Nyl.

**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, 970 m above sea level, grid number 8739/3, on *Picea abies*, 1 November 2010, collected and determined by Roman Türk (48025).

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### 385. *Rinodina orculata* Poelt & M.Steiner

**ITALY**, Emilia-Romagna, Provincia di Bologna, Appennino Tosco-Emiliano, Campi-une, 450 m above sea level, in an old 'Castanea sativa Selve', on *Castanea sativa*, 13 May 1995, collected by Per Luigi Nimis, Josef Poelt and Mauro Tretiach (s.n.), determined by Helmut Mayrhofer (2011).

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### 386. *Rinodina pityrea* Ropin & H.Mayrhofer

**ITALY**, Veneto Region, Provincia di Venezia, Bibione, road north of the sand shore, 45°38'07"N, 013°03'30"E, 3 m above sea level, parkway, on bark of *Elaeagnus angustifolia*, 16 May 2005, collected and determined by Roman Türk (37536), confirmed by Helmut Mayrhofer (2011).

Note: All specimens with apothecia.

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### 387. *Rinodina pityrea* Ropin & H.Mayrhofer

**GERMANY**, Baden-Württemberg, 36 km SSW of the centre of Würzburg, Main-Tauber district, valley of the river Tauber, Bad Mergentheim, industrial area near the train station, 49°29'40"N, 009°46'09"E, 210 m above sea level, grid number 6524/2, on bark of old *Sambucus nigra*, 24 April 2005, collected by Roman Türk (37447), determined by Helmut Mayrhofer (2011).

Note: All specimens with apothecia.

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### 388. *Seiophora contortuplicata* (Ach.) Frödén (Syn.: *Teloschistes contortuplicatus*)

**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), on inclined and vertical rock faces (SSE-exposed), 20 August 2011, collected and determined by Walter Obermayer (12253).

Note: Specimens in GZU and UPS with apothecia!

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### 389. *Squamarina gypsacea* (Sm.) Poelt

**AUSTRIA**, Steiermark (=Styria), Totes Gebirge, 11.2 km NE of the centre of Bad Aussee, in the immediate vicinity of Albert-Appel-Haus, 47°41'34"N, 013°52'17"E, 1650 m above sea level, grid number 8349/1, on calcareous rocks with a bryophyte layer, 20 September 2004, collected and determined by Roman Türk (35266).

Note: TLC (specimen in GZU tested): Psoromic acid (maj.), consporomic acid (submaj.), usnic acid (maj.), isousnic acid (min.).

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### 390. *Stenhammarella turgida* (Ach.) Hertel

**FRANCE**, Rhône-Alpes, Haute-Savoie, Western Alps, Savoy Prealps, Aravis Range, 5.3 km NW of the centre of Sallanches, 45°57'35"N, 006°34'48"E, 1880 m above sea level, NNE-facing cliffs near the ridge, outcrops of calcareous schist, on strongly inclined to vertical rock faces (near ground), 17 August 2011, collected and determined by Walter Obermayer (12254).

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### 391. *Stereocaulon vesuvianum* Pers.

**AUSTRIA**, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 20 km W of the centre of Köflach, path from Hirscheeggertel (Salzstiegelhaus) to Ameringkogel, between the summits Weißenstein and Ameringkogel, 47°04'12", 014°48'29"E, 2165 m above sea level, grid number 8955/1, alpine vegetation (windblown ridge), on ground, 26 August 2009, collected and determined by Walter Obermayer (12252).

Note: TLC (specimen in GZU tested): Atranorin (maj.), stictic acid (maj.), constictic acid (min.), menegazziaic acid (min.), norstictic acid (tr.); intermixed *Stereocaulon symphycheilum* has been separated by means of an UV lamp (especially soralia are UV+ strongly white) and is issued in the exsiccata Dupla Graecensia Lichenum 2011 as no. 787.

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### 392. *Thrombium epigaeum* (Pers.) Wallr.

**AUSTRIA**, Kärnten (=Carinthia), Hohe Tauern, Goldberggruppe, 14 km WNW of Obervellach, Großfragant, path from Fraganter Hütte to Eggerhütte, 46°57'10"N, 013°01'33"E, 1850 m above sea level, grid number 9044/1, fresh batter (above garnet mica schist), on soil, 7 July 2011, collected by Roman Türk (49100) and Erich Zimmermann, determined by Roman Türk.

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### 393. *Trapeliopsis viridescens* (Schrad.) Coppins & P. James

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), Schafberg massif, path from Schafling to Schafbergalm, near Kesselalm, 47°46'41"N, 013°24'31"E, 975 m above sea level, grid number 8246/2, on strongly rotten wood of *Picea abies*, 29 September 2004, collected and determined by Roman Türk (35204).

Note: Thallus UV+ white, C+ red.

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### 394. *Umbilicaria hirsuta* (Sw. ex Westr.) Hoffm.

**AUSTRIA**, Salzburg, Lungau (=Tamsweg district), Schladminger Tauern, 9.7 km NNE of the centre of Tamsweg, Preberkessel 1.3 km SW of the summit of Preber, 47°12'35"N, 013°51'18"E, 2040 m above sea level, grid number 8749/3, on gneissic boulder, 5 June 2010, collected and determined by Roman Türk (46916).

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**395. *Xanthomendoza fallax* (Hepp ex Arnold) Søchting et al.**  
(Syn.: *Xanthoria fallax*)

**AUSTRIA**, Salzburg, Flachgau region (=Salzburg-Umgebung district), 12 km NE of the centre of Salzburg, Seekirchen am Wallersee, near the train station, 47°53'56"N, 013°07'47"E, 513 m above sea level, grid number 8144/2, on bark of *Aesculus hippocastanum*, 24 December 2009, collected and determined by Roman Türk (46376).

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**396. *Xanthoria candelaria* (L.) Th.Fr.**

**AUSTRIA**, Steiermark (=Styria), Gurktaler Alpen (including Neumarkter Passlandschaft), E facing slopes of Grebenzen, 5.5 km WSW of Neumarkt, 1.4 km SW of Zeutschach, Oberholz, near the hunting lodge, 47°03'40"N, 014°21'15"E, 1070 m above sea level, grid number 8952/1, edge of a forest, on bark at the base area of *Picea abies* (close to the road), 13 August 2010, collected and determined by Walter Obermayer (11994).

Note: Partly with apothecia.

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**397. *Xanthoria coomae* S.Kondr. & Kärnefelt**

– paratype –

**AUSTRALIA**, New South Wales, 130 km S of Canberra, 35 km SE of Cooma township (Cooma Monaro Council), Nimmitabel near Williams Lake, 36°30'44.9"S, 149°17'05.1"E, 1084 m above sea level, on *Populus nigra* (along the road), 31 January 2004, collected and determined by Sergey Kondratyuk (20492) and Ingvar Kärnefelt.

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**398. *Xanthoria sorediata* (Vain.) Poelt**

**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 (12256).

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### 399. **Xanthoria streimannii** S.Kondr. & Kärnefelt

**AUSTRALIA**, New South Wales, 100 km S of Canberra, SE 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 by Sergey Kondratyuk (20494c), determined by Sergey Kondratyuk (V.2008).

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### 400. **Xylographa parallela** (Ach.) Behlen & Desberger

**AUSTRIA**, Salzburg, Lungau (=Tamsweg district), 8.8 km NE of Tamsweg, Überling-Sonnseite, Überlingmoos, 47°10'04"N, 013°54'35"E, 1690 m above sea level, grid number 8849/1, on slowly decaying wood of *Picea abies* (near ground), 11 June 2004, collected and determined by Roman Türk (34793).