

Dupla Graecensia Lichenum (2007, nos 481–580)

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OBERMAYER W. 2007: Dupla Graecensia Lichenum (2007, nos 481–580). - Fritschiana (Graz) 60: 7–34. - ISSN 1024-0306.

Abstract: Dupla Graecensia Lichenum (2007, nos 481–580) comprises 100 collections of lichen duplicates from Argentina (Misiones), Armenia (prov. Ararat), Australia (New South Wales; Queensland; Tasmania), Austria (Carinthia; Salzburg; Styria; Tirol; Upper Austria), Brazil (Amazonas; Mato Grosso; Paraná; Rio Grande do Sul; São Paulo), Bulgaria (Blagoevgrad), China (Tibet, prov. Xizang), Guatemala (Petén), Jamaica (Saint Elizabeth), Namibia (Erongo), Réunion, Slovenia, South Africa (Cape Province), Spain (Canary Islands), Switzerland (Bern; Graubünden), U.S.A. (Hawai'i), Uruguay (Artigas; Durazno; Canelones; Maldonado; Rocha; Salto; San José; Tacuarembó), and Zimbabwe. TLC-investigations were carried out for 9 lichenized taxa (*Cetrelia cetrarioides* s.str. [3 different localities], *C. monachorum* [2 different localities], *Lecanora* cf. *leuckertiana*, *Lobaria 'pseudoisidiophora'* ined., *Pertusaria albescens* var. *a.*, *P. albescens* var. *corallina*, *Pleopsidium gobiense*). *Lobaria 'pseudoisidiophora'* (ined.) is issued as part of the results of the 'Sino-German Joint Expedition to Southeastern and Eastern Tibet 1994'.

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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 abbreviation: GZU). It includes lichens and lichenicolous fungi from all over the world with five to ten duplicates of each collection. Each institution receiving a duplicate is cited (at the bottom line of each individual label) with its international herbarium abbreviation (see <http://sciweb.nybg.org/science2/IndexHerbariorum.asp>): The herbaria in Canberra (CANB), Graz (GZU), Munich (M), New York (NY), and Uppsala (UPS) are receiving all distributed specimens continuously. To make every single specimen unique, the abbreviation of the herbarium, where the specimen should be housed, is underlined on the labels. Abbreviations of authors of plant names are taken from http://brimsa.huh.harvard.edu/cms-wb/botanist_index.html. Names of countries and states (or provinces or principal subdivisions) can be found under <http://www.ars-grin.gov/cgi-bin/npgs/html/geolist.pl>. 'Dupla Graecensia Lichenum' is published as text version (with online corrections) under <http://www.uni-graz.ac.at/walter.obermayer/dupl-graec.htm>. A downloadable PDF-file can currently be found under <http://www.uni-graz.at/walter.obermayer/dupla-graecensia-lichenum-2007.pdf>. Label texts originally drafted in a local language have been translated into English by the author. Unless otherwise stated, additional notes were provided by the author.

I wish to thank all the collectors and keepers of private herbaria for their contributions, in particular Uwe Becker, Franz Berger, Ursula Brosch, Josef Hafellner, Klaus Kalb, Helmut Mayrhofer, Héctor Osorio, and Roman Türk.

Thanks are also due to several colleagues, who helped with determinations: Philippe CLERC, Andreas FRISCH, Roland MOBERG, John W. SHEARD, Orvo VITIKAINEN. Field works in Tibet (1994) were supported by the 'Austrian Science Fund' (project number P09663-BIO).

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481. **Acarospora sinopica** (Wahlenb.) Körb.

[Syn.: *Polysporinopsis sinopica* (Wahlenb.) Vězda]

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Stubalpe, Ameringkogel massif, E of Obdach, Weißenstein, S-facing ridge above Milcheben (E above Weißensteinhütte), 47°03'35"N, 014°48'05"E, MTB 8954/2, 1900 m alt., on small, iron-rich rocks (in a rock wall). – 3.IX.2005, leg. J. Hafellner (65152) & A. Hafellner, det. J. Hafellner.

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482. **Alectoria nigricans** (Ach.) Nyl.

AUSTRIA, Salzburg/Steiermark (= Styria) (border area), Niedere Tauern, Schladminger Tauern, 24 km NW of Murau, Preber, path from Grazer Hütte to the summit of Preber, ridge area between Bockleiteneck and Roßscharte, 47°12'53"N, 013°52'03"E, MTB 8749/3, 2450-2530 m alt., alpine pastures with siliceous rocks along a windblown ridge, on ground (moss-lichen heath). – 15.VIII.2006, leg. & det. W. Obermayer (11168).

Note: Partly with intermixed thalli of *Alectoria ochroleuca*. TLC: Alectorialic acid syndrome.

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483. **Anthracotheccium goniostomum** Müll.Arg.

URUGUAY, Durazno, 150 km NE of Durazno, near the river Rio Negro, 1 km E of the railstation 'km 329', between Mazamorra and Poblado de los Morales, 32°25'S, 055°25'W, riverside of Rio Negro, on branches of shrubs. – 24.II.1974, leg. & det. H.S. Osorio (7012).

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484. **Anthracotheций papilliferum** (Nyl.) Müll.Arg.

ARGENTINA, Misiones, 40 km ENE of Posadas, between Santa Ana and San Ignacio, 5 km E of the Paraná river Loreto, 27°19'S, 055°32'W, 220 m alt., on bark of indigenous trees. – 5.III.1956, leg. J.E. Montes (10046; ex herb. Osorio 5423), det. H.S. Osorio (1980).

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485. **Arthonia ruana** A.Massal.

[Syn.: *Arthothelium ruanum* (A.Massal.) Körb.]

AUSTRIA, Steiermark (= Styria), Sausal, vicinity of Waldschach, 0.6 km SSE of the castle 'Schloss Waldschach', 46°49'05"N, 015°25'10"E, MTB 9158/4, 320 m alt., mixed forest, on bark of *Fraxinus excelsior*. – 20.VII.2003, leg. & det. J. Hafellner (60778).

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486. **Bilimbia lobulata** (Sommerf.) Hafellner & Coppins

[Syn.: *Mycobilimbia lobulata*; *Myxobilimbia lobulata*]

AUSTRIA, Steiermark (= Styria), Mürzsteger Alpen, Schneealpe, summit area of Windberg, 47°42'12"N, 015°35'38"E, MTB 8359/2, 1903 m alt., wind-exposed ridge with alpine vegetation (over calcareous bedrock), on ground (p.p. covering bryophytes). – 28.VII.2007, leg. & det. W. Obermayer (11403).

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487. **Buellia bahiana** Malme

U.S.A., Hawai'i, Kau, road north of South Point, 365 m alt., windy cattle range, on dead branch. – 28.XII.1976, leg. O. Degener (34187 [ex herb. Otto Degener]) & I. Degener, det. K. Kalb.

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488. **Buellia schaereri** De Not.

AUSTRIA, Kärnten (= Carinthia), Lienzer Dolomiten (border to Gailtaler Alpen), 3 km NNW of St.Lorenzen, 350 m NW of Tuffbad, path to 'Wiesner Alm', 46°43'33"N, 012°45'46"E, MTB 9242/4, 1320 m alt., cattle pasture, on bark of *Picea abies*. – 7.VII.2005, leg. & det. R. Türk (37622).

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489. **Caloplaca ammiospila** (Wahlenb.) H.Olivier

AUSTRIA, Steiermark (= Styria), Nördliche Kalkalpen, Hochschwab-Gruppe, 11 km NE of Aflenz, Zagerkogel, N-exposed slopes short below the summit, 47°36'40"N, 015°07'26"E, MTB 8356/4, 2240 m alt., low calcareous outcrops in the midst of Caricetum firmiae, on bryophytes and plant remnants. – 18.IX.2004, leg. & det. J. Hafellner (63446).

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490. **Caloplaca australis** (Arnold) Zahlbr.

[Syn.: *Fulgensia australis* (Arnold) Poelt]

AUSTRIA, Kärnten (= Carinthia), Karnische Alpen, 10 km SW of Kötschach-Mauthen, 4 km NW of Plöckenpass, 500 m W of 'Obere Valentinalm', 46°37'15"N, 012°53' 55"E, MTB 9343/3, 1650 m alt., alpine pasture with calcareous boulders and outcrops, on strongly inclined faces of limestone boulders (1-2 m above ground). – 18.VII.2007, leg. & det. W. Obermayer (11404).

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491. **Caloplaca erodens** Tretiach, Pinna & Grube

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Grazer Bergland, 6.5 km NE of Mixnitz, Hochlantsch, eastern ridge 0.6 km ENE of the cross of the summit, 47°21'55"N, 015°25'57"E, MTB 8658/2, 1620 m alt., short rock cliff (palaeozoic limestone) protruding to the north, on SW-exposed, inclined rock surfaces. – 15.X.2005, leg. & det. J. Hafellner (64445) & L. Muggia.

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492. **Caloplaca oahuensis** Hafellner

U.S.A., Hawai'i, O'ahu, brink of Kaukonahua Gulch near the University of Hawaii, 213 m alt., on trunk and branches of introduced *Ficus*. – 17.V.1977, leg. O. Degener (34419 [ex herb. Otto Degener]) & I. Degener, det. K. Kalb.

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493. **Canoparmelia texana** (Tuck.) Elix & Hale

URUGUAY, Canelones, ENE of Montevideo, Parque Nacional "F.D.Roosevelt", between Italia Avenue and Rio de la Plata coast, 34°51'S, 56°01'W, 1-5 m alt., on trunk of *Pinus*. – 15.VI.1985, leg. & det. H.S. Osorio (8514).

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494. **Cetrelia cetrarioides** (Delise ex Duby) W.L.Culb. & C.F.Culb. s.str.

AUSTRIA, Steiermark (= Styria), Salzkammergut, Totes Gebirge, 2.7 km N of Alt-ausee, W-facing slopes of Loser, 0.7 km WNW of the summit, path from Loser-Hütte to Blaa-Alm, 47°39'50"N, 013°45'45"E, MTB 8348/2, 1300 m alt., mixed forest with *Picea abies*, *Acer pseudoplatanus*, and *Abies alba*, on bark of *Acer pseudoplatanus* (shady conditions). – 31.XII.2006, leg. & det. W. Obermayer (11289).

Note: All specimens tested two or three times by TLC: Perlatolic acid syndrome [no imbricatic acid], atranorin (traces in the thallus, minor in the soralia), no fatty acid.

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495. **Cetrelia cetrarioides** (Delise ex Duby) W.L.Culb. & C.F.Culb. s.str.

SLOVENIA, Southern Alps, Julian Alps, Koritnica valley NE of the village Log pod Mangartom, 46°24'50"N, 013°38'00"E, 700 m alt., mixed forest along the river bed, on *Picea abies*. – 31.VII.2003, leg. H. Mayrhofer (16032a), M. Jensen & M. Trembley, det. W. Obermayer (2006).

Note: All specimens with apothecia. TLC: Atranorin (traces in the thallus, minor in the soralia), perlatolic acid syndrome [no imbricatic acid].

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496. *Cetrelia cetrarioides* (Delise ex Duby) W.L.Culb. & C.F.Culb. s.str.

SWITZERLAND, Bern [Kanton], Berner Oberland, 11 km SSE von Meiringen, Gut-tannen, 46°39'N, 008°17'E, 1050 m alt., forest area with *Picea abies*, on *Picea abies* (covered with bryophytes). – 31.VII.1961, leg. K. Schittengruber (1210), det. W. Obermayer (2007).

Note: TLC (performed at least twice per specimen): Atranorin (traces in the thallus, minor in the soralia), perlatolic acid syndrome.

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497. *Cetrelia monachorum* (Zahlbr.) W.L.Culb. & C.F.Culb.

AUSTRIA, Steiermark (= Styria), Niedere Tauern, Seckauer Tauern, Mautern, Hagenbachgraben, 47°22'50"N, 014°45'00"E, MTB 8654/2, 1080 m alt., on *Acer pseudoplatanus* (40-50 cm stem diameter). – 21.X.1962, leg. K.Schittengruber (1390), det. W. Obermayer (2007).

Note: TLC (performed at least four times per specimen): Atranorin (traces in the thallus, minor in the soralia), imbricatic acid syndrome (maj.), perlatolic acid (min.), p.p. with fatty acid 1(-2)/1(-2)/ 1(-2). *Cetrelia cetrarioides* s.str. is intermixed at least in the samples deposited in CANB and UPS.

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498. *Cetrelia monachorum* (Zahlbr.) W.L.Culb. & C.F.Culb.

AUSTRIA, Steiermark (= Styria), Nordalpen, Nördliche Kalkalpen, Müzzsteger Alpen, Greithgraben N of Turnau, just N of Greith, vicinity of 'Barbarakreuz', 47°37'00"N, 015°20'30"E, MTB 8358/3, 1020 m alt., mixed forest with mainly conifers (near a brook), on bark of *Acer pseudoplatanus*. – 22.X.2006, leg. J. Hafellner (67532) & L. Muggia, det. J. Hafellner.

Note: TLC: Imbricatic acid syndrome (maj.), perlatolic acid (min.), atranorin (traces in the thallus, minor in the soralia), p.p. with fatty acid 1(-2)/1(-2)/1(-2).

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499. **Chaenotheca ferruginea** (Turner & Borrer) Migula

AUSTRIA, Steiermark (= Styria), Oststeirisches Riedelland, 10.8 km NE of the centre of Graz, 2 km SSE of Kumberg, 500 m W of Bachwirt, 47°08'35"N, 015°32'30"E, MTB 8859/3, 450 m alt., *Fraxinus-Carpinus-Picea* stand along a brook, on branches of *Fraxinus excelsior* (lying on ground). – 26.III.2006, leg. & det. W. Obermayer (11317).

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500. **Chapsa alborosella** (Nyl.) A.Frisch

BRAZIL, Amazonas, rainforest along the river Rio Negro, 150 km upstream of Manaus, 02°30'S, 061°10'W, 40 m alt., on bark of a tree. – 16.X.1980, leg. & det. K. Kalb (31731).

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501. **Chapsa leprocarpa** (Nyl.) A.Frisch

BRAZIL, São Paulo, Ilha Comprida, opposite to Cananéia, 25°00'S, 047°50'W, 2 m alt., dry coastal forest not subjected to flooding (restinga), on bark of unknown tree. – 18.III.1979, leg. K. Kalb (31078) & G. Plöbst, det. A. Frisch.

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502. **Cladia retipora** (Labill.) Nyl.

AUSTRALIA, Tasmania, Mt. Field National Park, Tarn Shelf, 42°40'S, 146°34'E, 1200 m alt., glacial debris, on ground. – 17.XI.1978, leg. J.O. Juvik (TAS-5), det. P. Scholz (2006).

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503. **Cladonia botrytes** (K.G.Hagen) Willd.

AUSTRIA, Kärnten (= Carinthia), Steirisches Randgebirge, Stubalpe, Höllgraben E of Reichenfels, N-exposed slopes NW of Jaukenschlößl, 47°01'15"N, 014°47'20"E, MTB 8954/4, 1280 m alt., young forest with old tree stumps, on wood of tree stumps. – 6.VI.2006, leg. & det. J. Hafellner (66269) & L. Muggia.

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504. **Cladonia stygia** (Fr.) Ruoss

SLOVENIA, Pohorje, 26 km WSW of Maribor, 6 km ENE of Mislinja, Lovrenška jezera, 46°29'02"N, 015°18'56"E, 1525 m alt., upland moor with *Pinus mugo* (in wet pits between hillocks), on soil. – 12.VI.2006, leg. & det. H. Mayrhofer (16084) & S. Harutyunyan.

Note (Mayrhofer): New to Slovenia.

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505. **Cladonia sulphurina** (Michx.) Fr.

AUSTRIA, Steiermark (= Styria), Nördliche Kalkalpen, Hochschwab-Gruppe, 13 km NW of Thörl, Buchbergkogel, northern ridge S above the hut Häuselalm, 47°35'15"N, 015°04'35"E, MTB 8456/1, 1620 m alt., loose dwarf pine scrub, on raw humus (amidst *Pinus mugo* stands). – 28.IX.2003, leg. & det. J. Hafellner (62779).

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506. **Cladonia uncialis** (L.) Weber ex F.H.Wigg.

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Stubalpe, SE-facing slopes of Speikkogel, 17 km W of Köflach, 2.2 km SW of Salzstiegelhaus, 47°03'10"N, 14°51'10"E, MTB 8955/1, 1860 m alt., boulder field, on ground. – 5.VIII.2006, leg. & det. W. Obermayer (11166).

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507. Concamerella fistulata (Taylor) W.L.Culb. & C.F.Culb.

URUGUAY, Rocha, Sierra de San Miguel, Cerro Picudo, 33°42'S, 053°34'W, 110 m alt., on (above) rocks. – 18.VII.1986, leg. C. Prigioni (s.n.; ex herb. Osorio 9712), det. H.S. Osorio (2004).

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508. Concamerella pachyderma (Hue) W.L.Culb. & C.F.Culb.

URUGUAY, Maldonado, 37 km NW of Maldonado city, Cerro Caperuza Grande, 19 km NNW of Cerro de las Animas, 34°46'S, 055°19'W, 150 m alt., on rocks. – 18.IX.1983, leg. & det. J. Femenias (s.n.; ex herb. Osorio 9711).

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509. Cratiria lauricassiae (Fée) Marbach

AUSTRALIA, Queensland, Whitsunday Group, Whitsunday Island, along the beach, 20°17'S, 148°40'E, 5 m alt., on *Callistemon* spec. – 21.VIII.2002, leg. & det. K. Kalb (33903).

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510. Cryptothelium octosporum (Vain.) Zahlbr.

BRAZIL, Rio Grande do Sul, São Francisco de Paula, Floresta Nacional, I.B.D.F., 29°27'S, 050°35'W, 900 m alt., on trunk of *Ocotea* or *Nectandra* (inside a forest). – 19.IV.1982, leg. H.S. Osorio & M. Fleig (SF/18; ex herb. Osorio 8029), det. H.S. Osorio 1983.

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511. **Dimerella pineti** (Schrad. ex Ach.) Vězda

AUSTRIA, Steiermark (= Styria), Grazer Bergland (eastern part), 5.5 km NNE of the centre of Graz, 0.8 km NW of Wenisbuch, uppermost part of the valley of Dürngraben, 47°07'15"N, 015°28'05"E, MTB 8858/4, 560 m alt., N-facing slopes (forest area with *Pinus*, *Larix*, *Quercus*), on bark at base area of *Larix decidua*. – 13.IV.2006, leg. & det. W. Obermayer (11115).

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512. **Dirinaria applanata** (Fée) D.D.Awasthi

URUGUAY, San José, San José de Mayo, near railroad station, 40-50 m alt., on bark of *Gleditschia triacanthos*. – 9.XII.1975, leg. A. Laguardia (s.n.; ex herb. Osorio 9720), det. H.S. Osorio (2005).

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513. **Evernia prunastri** (L.) Ach.

AUSTRIA, Steiermark (= Styria), Zentralalpen, Gurktaler Alpen, Grebenzen, E-facing slopes, 3.6 km SW of Neumarkt, 1.2 km NE of the church of Pöllau, 47°02'48"N, 14°23'50"E, MTB 8952/3, 1090 m alt., sun-exposed trees (influenced by road dust) along the road to Pöllau, on *Salix* spec. – 27.IV.2007, leg. & det. W. Obermayer (11362).

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514. **Gyalecta ulmi** (Sw.) Zahlbr.

AUSTRIA, Salzburg, 3 km S of St.Gilgen (at the lake Wolfgangsee), E-facing slopes of Zwölferhorn, Steingrabental, 47°44'29"N, 013°22'19"E, MTB 8246/3, 900 m alt., wood yard, on *Fraxinus excelsior*. – 4.V.2004, leg. B. Antesberger (1903), det. B. Antesberger, conf. R. Türk.

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515. **Gyrotrema sinuosum** (Sipman) A.Frisch

BRAZIL, Amazonas, rainforest along the river Rio Negro, 150 km upstream of Manaus, 02°30'S, 061°10'W, 40 m alt., on bark of a tree. – 16.X.1980, leg. & det. K. Kalb (34004).

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516. **Halecania subsquamosa** (Müll.Arg.) P.Boom & H.Mayrhofer

AUSTRALIA, New South Wales, Eurobodalla, Cape Dromedary, S of Mystery Bay, S of Narooma, 36°18'S, 150°08'E, on coastal rocks. – 27.VII.1992, leg. H. Mayrhofer (10685) & E. Hierzer, det. H. Mayrhofer (conf. P.P.G. van den Boom).

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517. **Helocarpon pulverulum** (Th.Fr.) Türk & Hafellner

AUSTRIA, Kärnten (= Carinthia), Zentralalpen, Steirisches Randgebirge, Stubalpe, E of St.Leonhard, W-facing slopes NE above 'Görlitzer Alm', Kollmannsöfen, near 'Schieflinger Kreuz', 47°00'25"N, 014°52'55"E, MTB 8955/3, 1745 m alt., outcrops and boulders of mica slate (in dwarf-shrub heath), on bryophytes and plant remnants. – 12.VI.2005, leg. & det. J. Hafellner (65084).

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518. **Hypogymnia tubulosa** (Schaer.) Hav.

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Grazer Bergland (eastern part), Schöckl, 2 km N of St.Radegund, path from the tavern 'Schöcklbartl' to 'Römerweg', 47°11'52"N, 015°29'00"E, MTB 8858/2, 1040 m alt., mixed forest with mainly *Picea abies* and *Larix decidua*, on twigs of *Larix decidua*. – 15.IV.2007, leg. & det. W. Obermayer (11355) & B. Cartellieri.

Note: Partly associated with *Hypogymnia physodes*, *Pseudevernia furfuracea* var. *ceratea*, and *Parmelia sulcata*.

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519. *Icmadophila ericetorum* (L.) Zahlbr.

SWITZERLAND, Graubünden, Engadiner Alpen, Sesvenna group, 12 km NE of Scuol, San Niclà, shortly SE of the church, 46°51'30"N, 010°25'35"E, 1070 m alt., steep slope exposed to the N, outcrops of calcareous schist in mixed forest with dominant *Picea abies* and *Pinus sylvestris*, on rotting wood. – 22.VIII.2006, leg. & det. W. Obermayer (11228).

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520. *Lecanora* cf. *leuckertiana* Zedda

AUSTRIA, Steiermark (= Styria), Oststeirisches Riedelland, 7.5 km E of the centre of Graz, Kainbach area, 'Auf der Ries', 47°06'00"N, 15°31'40"E, MTB 8859/3, 515 m alt., edge of a wood, on bark of *Quercus petraea* (50 cm trunk-height, SE-exposed). – 26.III.2005, leg. W. Obermayer (10644), det. H. Mayrhofer.

Note: TLC: Usnic acid, zeorin, unknown 1(-2)/1-2/1; specimen in GZU with two mature apothecia.

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521. *Lecidea nylanderii* (Anzi) Th.Fr.

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Joglland, NNE of Birkfeld, Grauer Stein N above Strallegg, at the summit ridge, 47°25'25"N, 015°43'35"E, MTB 8560/3, 1070 m alt., loose mixed forest with conifers and inactive quartzitic boulders (mostly covered with bryophytes and dwarf shrubs), on bark of *Pinus sylvestris*. – 11.X.2003, leg. & det. J. Hafellner (61792).

Note: All specimens show the typical white leprarioid crust with a UV+ white fluorescence.

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522. *Leifidium tenerum* (Laurer) Wedin

AUSTRALIA, Tasmania, Great Western Tiers, Pine Lake, about 5 km N of Breona, on Great Lake Highway, 41°44'S, 146°43'E, 1200 m alt., boulder field, on *Arthrotaxis cupressoides*. – 21.XI.1978, leg. & det. J.O. Juvik (TAS-9).

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523. *Leptogium marginellum* (Sw.) Gray

BRAZIL, Paraná, Guayra, 24°04'S, 54°15'W, damp place, on trunks and twigs of trees. – 14.V.1956, leg. J.E. Montes (10144; ex herb. Osorio 4374), det. H.S. Osorio (1960); conf. W. Dodge (1960).

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524. *Lobaria 'pseudoisidiophora'* ined.

CHINA, Tibet, prov. Xizang, Himalaya Range, 280 km ESE of Lhasa, 45 km SW of Mainling, way down from a mountain pasture hut to the valley of a tributary of the Tsangpo, 29°02-03'N, 93°54-56'E, 3400–3800 m alt., *Abies* forest, on *Salix*. – 14.VIII.1994, leg. & det. W. Obermayer (10578).

Note: TLC (all specimens tested): Stictic acid (maj.), constictic acid (maj.), gyrophoric acid (maj.), norstictic acid (tr.). All specimens with isidia and apothecia (separated material with a lichenicolous fungus in the apothecia will be distributed later). Shape of thalli and isidia as well as the chemical compounds are similar to those in *L. isidiophora*, but *Lobaria 'pseudoisidiophora'* contains cyanobacteria as photobionts.

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525. *Loxospora elatina* (Ach.) A.Massal.

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Joglland, NNE of Birkfeld, Grauer Stein N above Strallegg, at the summit ridge, 47°25'25"N, 015°43'35"E, MTB 8560/3, 1070 m alt., loose mixed forest with conifers and inactive quartzitic boulders (mostly covered with bryophytes and dwarf shrubs), on bark of *Abies alba*. – 11.X.2003, leg. & det. J. Hafellner (61800).

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526. *Melanotrema platystomum* (Mont.) A.Frisch

BRAZIL, São Paulo, Ilha de São Sebastião, 130 km E of São Paulo, western slopes of Morro das Tacas, 23°50'S, 045°20'W, 400 m alt., in a humid and dark rainforest along a rivulet, on bark of unknown tree. – 2.IV.1979, leg. K. Kalb (31134) & G. Plöbst, det. A. Frisch.

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527. **Nephroma parile** (Ach.) Ach.

AUSTRIA, Steiermark (= Styria), Salzkammergut, Totes Gebirge, 2.7 km N of Alt-ausee, W-facing slopes of Loser, 0.7 km WNW of the summit, path from Loser-Hütte to Blaa-Alm, 47°39'50"N, 013°45'45"E, MTB 8348/2, 1300 m alt., mixed forest with *Picea abies*, *Acer pseudoplatanus*, and *Abies alba*, on bark of *Acer pseudoplatanus* (shady conditions). – 31.XII.2006, leg. & det. W. Obermayer (11292).

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528. **Ocellularia polydisca** Redinger

BRAZIL, Mato Grosso, 35 km SE of Cuiaba, 15°50'S, 056°00'W, 120 m alt., cerrado with iron bearing rocky outcrops, on old deciduous trees. – 3.-4.VII.1980, leg. K. Kalb (31699) & M. Marcelli, det. A. Frisch.

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529. **Opegrapha rufescens** Pers.

AUSTRIA, Steiermark (= Styria), Grazer Bergland (eastern part), 7.2 km NNE of the centre of Graz, 1.2 km ESE of Weinitzen, Annengraben, 47°08'10"N, 015°27'55"E, MTB 8858/4, 440 m alt., steep, S-exposed slopes with *Carpinus-Fagus-Quercus-Pinus*-forest, on stem bark of *Carpinus betulus* (1-3 m height, W-exp.). – 09.IV.2006, leg. & det. W. Obermayer (11083).

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530. **Parmotrema melanothrix** (Nyl.) Hale

BRAZIL, Paraná, 130 km NW of Cascavel, near the Paraná river, Guaíra, 24°04'S, 054°15'W, on trunk and branches of trees. – 12.V.1956, leg. J.E. Montes (10137A; ex herb. Osorio 4348), det. H.S. Osorio (1960).

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531. *Peltigera malacea* (Ach.) Funck

AUSTRIA, Salzburg/Steiermark (= Styria) (border area), Niedere Tauern, Schladminger Tauern, 24 km NW of Murau, Preber, path from Grazer Hütte to the summit of Preber, ridge area between Bockleiteneck and Roßscharte, 47°12'53"N, 013°52'03"E, MTB 8749/3, 2450-2530 m alt., alpine pastures with siliceous rocks along a windblown ridge, on ground. – 15.VIII.2006, leg. & det. W. Obermayer (11172).

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532. *Peltigera polydactylon* (Neck.) Hoffm.

AUSTRIA, Steiermark (= Styria), Dachsteingruppe, 4.4 km NNW of Schladming, Ramsau, 1 km NNW of the church of Ramsau-Ort, 47°25'55"N, 013°38'55"E, MTB 8547/4, 1280 m alt., mixed forest with *Picea abies* and *Larix decidua*, on vertical surface of a rotten stump. – 19.II.2007, leg. W. Obermayer (11347), det. O. Vitikainen (2007).

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533. *Peltula cylindrica* Wetmore

ZIMBABWE, Inselberg ZW17/30a1=ZW15, Gwangwaza, near Banket, 17°30.7'S, 030°29.7'E, 1390 m alt., rock of 'Glockenberg-type' (70 m high, surrounded by farmland), on granite rocks. – 11.VII.1993, leg. U. Becker (215171), det. U. Becker (2002).

Note: Partly associated with other *Peltulas*, e.g. *P. marginata* and *P. umbilicata*.

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534. *Peltula marginata* Wetmore

ZIMBABWE, Inselberg ZW17/30a1=ZW15, Gwangwaza, near Banket, 17°30.7'S, 030°29.7'E, 1390 m alt., rock of 'Glockenberg-type' (70 m high, surrounded by farmland), on granite rocks. – 11.VII.1993, leg. U. Becker (215030), det. U. Becker (2002).

Note: Partly associated with other *Peltulas*, e.g. *P. cylindrica*, *P. umbilicata*, *P. cf. congregata*, *P. cf. obscurans*, *P. cf. boletiformis*.

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535. *Pertusaria albescens* (Huds.) M.Choisy & Werner
var. albescens

AUSTRIA, Steiermark (= Styria), Dachsteingruppe, 4.4 km NNW of Schladming, Ramsau, 0.5 km N of the church of Ramsau-Ort, 47°25'40"N, 013°39'00"E, MTB 8547/4, 1180 m alt., roadside trees at the edge of a pasture, on bark of *Acer pseudoplatanus* (basal part of the trunk). – 19.II.2007, leg. & det. W. Obermayer (11354).

Note: TLC (all samples have been tested): Three fatty acids (allo-pertusaric acid, dihydro-pertusaric acid, unknown).

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536. *Pertusaria albescens* (Huds.) M.Choisy & Werner
var. corallina (Zahlbr.) J.R.Laundon

SLOVENIA, Trnovski gozd, Lokve, pension 'Winkler', 46°00'58"N, 013°47'33"E, 940 m alt., on *Tilia platyphyllos*. – 10.VI.2006, leg. H. Mayrhofer (16602), det. W. Obermayer (2007).

Note: TLC: 3 fatty acids.

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537. *Phaeophyscia chloantha* (Ach.) Moberg

AUSTRIA, Kärnten (= Carinthia), Karnische Alpen, 7.2 km SSW of the railway station of Kötschach-Mauthen, 3.5 km E of 'Plöckenpass', valley of the rivulet 'Angerbach', forestry road to 'Untere Tschintenmuntalm', 46°36'30-35"N, 012° 59'10-20"E, MTB 9343/4, 1360-1400 m alt., mixed forest with *Fagus sylvatica*, *Picea abies*, and *Abies alba*, on *Fagus sylvatica* (bark covered with mosses; shady conditions). – 31.VIII.2007, leg. W. Obermayer (11435), det. R. Moberg (2007).

Note: Probably due to the growth under very shady conditions, the material is quite untypical in its appearance. Some strongly divided thalli reach more than 3 cm in length, the upper cortex is rather untypically developed and the shape of soralia strongly resembles those of *Heterodermia speciosa*.

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538. **Phaeophyscia endococcinodes** (Poelt) Moberg

AUSTRALIA, Queensland, Lamington National Park, Beechmont Range, Binna Burra, 28°13'S, 153°11'E, 700 m alt., dry, subtropical rainforest dominated by *Acacia* spec., on bark of unknown tree. – 17.VIII.1988, leg. K. Kalb (21393) & A. Kalb, det. K. Kalb.

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

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539. **Physcia alba** (Fée) Müll.Arg.

URUGUAY, Tacuarembó, Rincón de Vassoura, 31°22'S, 55°47'W, on trunk of tree. – 29.III.2002, leg. G. Geymonat (s.n.; ex herb. Osorio 9541), det. H.S. Osorio (2002).

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

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540. **Placynthiella oligotropha** (J.R.Laundon) Coppins & P.James

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Fischbacher Alpen, Eibeggssattel N of 'St.Jakob bei Mixnitz', path to Ederkogel, 47°25'15"N, 015°27'00"E, MTB 8558/4, 1030 m alt., forest with mainly *Picea abies* and *Larix decidua* (with a few deciduous trees), on detritus along the slopes of the path. – 29.IX.1999, leg. & det. J. Hafellner (59610).

Note: Partly intermixed with *Placynthiella icmalea*.

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541. **Pleopsidium gobiense** (H.Magn.) Hafellner

ARMENIA, Ararat province, Vedi, cemetery next to Khor-Virab church, 39°52.996'N, 044°34.691'E, 844 m alt., on basalt. – 21.VII.2006, leg. H. Mayrhofer (16641) & S. Harutyunyan, det. W. Obermayer (2007).

Note (Obermayer): TLC: Rhizocarpic acid (maj.), yellow pigment (min.; 3/3/5, UV-yellow) [no strong fatty acid detected].

Note (Mayrhofer): New to Armenia.

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542. **Protoblastenia szaferi** J.Nowak

AUSTRIA, Steiermark (= Styria), Nordalpen (Nördliche Kalkalpen), Ennstaler Alpen, Gesäuseberge E of Admont, 'Großer Buchstein', northern anticline between the summit and 'Admonter Frauenmauer', 47°36'50"N, 014°35'55"E, MTB 8353/4, 2065 m alt., stands with *Carex firma* and *Dryas octopetala* (with low limestone cliffs), on W-exposed steep rock faces. – 19.VI.2005, leg. & det. J. Hafellner (64388).

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543. **Protomicarea limosa** (Ach.) Hafellner

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Glocknergruppe, path from the refuge 'Lucknerhaus' to the refuge 'Glorer Hütte', 47°01'41"N, 012°42'36"E, MTB 8942/3, 2540 m alt., on soil (above gneissic rocks). – 1.VII.2007, leg. & det. R. Türk (42574).

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544. **Protoparmelia oleaginea** (Harm.) Coppins

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Stubalpe, Größenberg S of Zeltweg, NW-ridge towards Eppenstein, Pichlmoarkogel, SW-facing slopes between 'Griesmoarhütte' and the summit, 47°06'05"N, 014°46'05"E, MTB 8854/4, 1560 m alt., coniferous forest (with *Picea abies* and *Larix decidua*), on decayed stumps. – 18.VIII.2005, leg. & det. J. Hafellner (65870).

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545. **Protothelenella corrosa** (Körb.) H.Mayrhofer & Poelt

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Stubalpe, SW of Köflach, NW of 'Packsattel', midway between 'Knödelhütte' and 'Bernsteinhütte', Lahnofen just below the hilltop, 46°59'45"N, 014°55'40"E, MTB 9055/2, 1510 m alt., small outcrops and big boulders of mica slate (in open *Picea-Larix*-forest), on W-exposed, inclined faces of boulders. – 28.VIII.2005, leg. & det. J. Hafellner (65815).

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546. *Pseudephebe pubescens* (L.) M.Choisy

AUSTRIA, Salzburg/Steiermark (= Styria) (border area), Niedere Tauern, Schladminger Tauern, 24 km NW of Murau, Preber, path from Grazer Hütte to the summit of Preber, ridge area between Bockleiteneck and Roßscharte, 47°12'53"N, 013°52'03"E, MTB 8749/3, 2450-2530 m alt., alpine pastures with siliceous rocks along a windblown ridge, on small rocks near ground (horizontal faces). – 15.VIII.2006, leg. & det. W. Obermayer (11170).

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547. *Pseudevernia furfuracea* (L.) Zopf var. *ceratea* (Ach.) D.Hawksw.

AUSTRIA, Steiermark (= Styria), Grazer Bergland, 3 km NW of St.Radegund, Schöckl, summit plateau, 0.6 km ENE of Stubenberghaus, 47°12'00"N, 15°28'10"E, MTB 8858/2, 1420 m alt., forest area with *Picea abies* and *Larix decidua*, on ground (all thalli fall down from *Picea abies* and *Larix decidua*). – 11.VI.2005, leg. & det. W. Obermayer (10994).

Note: Each specimen contains several single thalli which have been tested with the spot test. Small thalli or thallus fragments of *Pseudevernia furfuracea* var. *furfuracea* can be intermixed.

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548. *Pseudevernia furfuracea* (L.) Zopf var. *furfuracea*

[all specimens with apothecia, up to 1 cm in diam.]

AUSTRIA, Steiermark (= Styria), Dachsteingruppe, 6.5 km NW of Schladming, Ramsau, 2.9 km W of Ramsau-Ort, E-facing slopes of Rittisberg, 47°25'15"N, 013°36'55"E, MTB 8547/4, 1440 m alt., edge of a forest with *Picea abies* and *Larix decidua*, on bark of *Picea abies*. – 19.II.2007, leg. & det. W. Obermayer (11336).

Note: Specimen in GZU also with fertile thalli of *Pseudevernia f.* var. *ceratea*.

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549. Pseudevernia furfuracea (L.) Zopf
var. *furfuracea*

AUSTRIA, Steiermark (= Styria), Grazer Bergland, 3 km NW of St.Radegund, Schöckl, summit plateau, 0.6 km ENE of Stubenberghaus, 47°12'00"N, 15°28'10"E, MTB 8858/2, 1420 m alt., forest area with *Picea abies* and *Larix decidua*, on ground (all thalli fall down from *Picea abies* and *Larix decidua*). – 11.VI.2005, leg. & det. W. Obermayer (10993).

Note: Each specimen contains several single thalli which have been tested with the spot test. Small thalli or thallus fragments of *Pseudevernia furfuracea* var. *ceratea* can be intermixed.

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550. Pseudosagedia aenea (Wallr.) Hafellner & Kalb

AUSTRIA, Steiermark (= Styria), Grazer Bergland (eastern part), 5.6 km NNE of the centre of Graz, 1.3 km NW of Wenisbuch, middle part of the valley of Dürngraben, 47°07'25"N, 015°27'45"E, MTB 8858/4, 500 m alt., forest area on steep N-facing slopes along a gorge, on base of *Fagus sylvatica*. – 13.IV.2006, leg. & det. W. Obermayer (11105).

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551. Psilolechia lucida (Ach.) M.Choisy

AUSTRIA, Steiermark (= Styria), Steirisches Randgebirge, Stubalpe, Ameringkogel massif, E of Obdach, valley of the rivulet Schwarzenbach E of the hamlet 'Schwarzenbach am Größing', SW below the hut 'Griesmoarhütte', 47°05'30"N, 014°45'15"E, MTB 8954/2, 1140 m alt., rocky slope of a forestry road, on overhanging faces of platelike siliceous outcrops. – 18.VIII.2005, leg. & det. J. Hafellner (65849).

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552. Redingeria krepelhuberi (Redinger) A.Frisch

BRAZIL, São Paulo, Praia de Peruibe near Itanhaém, 24°10'S, 46°50'W, 2 m alt., dense mangrove forest, on *Languncularia racemosa*. – 19.VII.1979, leg. K. Kalb (31409), det. A. Frisch.

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553. *Rhizocarpon lecanorinum* Anders

AUSTRIA, Steiermark (= Styria), Nördliche Kalkalpen, Hochschwab-Gruppe, Polster E of Eisenerz, E-exposed slopes along the path from the hut Leobner Hütte to Hirscheeggensattel, 47°32'10"N, 014°58'10"E, MTB 8455/4, 1660 m alt., subalpine pasture lawns and scattered dwarf pine areas, on low rocks (breccia). – 10.IX.2004, leg. & det. J. Hafellner (63256).

Note: All specimens associated with *Rhizocarpon polycarpum*.

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554. *Rinodina maculans* (Kremp.) Müll.Arg.

JAMAICA, [island of the Greater Antilles], Saint Elizabeth, between Crawford and Sandy Ground, 4 km NW of Black River, 18°03'W, 077°52'N, 30 m alt., on roadside tree. – 15.IV.1992, leg. K. & A. Kalb (36400), det. J.W. Sheard (2007).

Note: All specimens associated with *Rinodina colobinoides*. The thallus of *R. maculans* is thin and smooth whereas the thallus of *R. colobinoides* is thicker and partly shows vegetative propagules.

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555. *Rinodina milvina* (Wahlenb.) Th.Fr.

BULGARIA, Blagoevgrad, Pirin Mountains, Pirin National Park, 10 km SE of Bansko, Banderitza valley, along the road to the mountain hut Vihren near Bajkushevata Mura, 41°45.798'N, 023°25.212'E, 1875 m alt., granite boulders between scattered *Pinus peuce*, on granite (horizontal faces). – 10.VII.2007, leg. & det. H. Mayrhofer (16671) & S. Nikolova.

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556. *Schismatomma pericleum* (Ach.) Branth. & Rostr.

AUSTRIA, Tirol, Osttirol, Defereggental, valley of the river Schwarzach, path to the refuge 'Patscher Hütte', 46°55'02"N, 012°14'59"E, MTB 9039/3, 1585 m alt., on bark of *Picea abies*. – 5.VII.2007, leg. & det. R. Türk (42572).

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557. **Sphaerophorus fragilis** (L.) Pers.

AUSTRIA, Salzburg/Steiermark (= Styria) (border area), Niedere Tauern, Schladminger Tauern, 24 km NW of Murau, Preber, path from Grazer Hütte to the summit of Preber, ridge area between Bockleiteneck and Roßscharte, 47°12'53"N, 013°52'03"E, MTB 8749/3, 2450-2530 m alt., alpine pastures with siliceous rocks along a windblown ridge, on earth within small rock crevices. – 15.VIII.2006, leg. & det. W. Obermayer (11169).

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558. **Stegobolus auberianus** (Mont.) A.Frisch & Kalb

BRAZIL, São Paulo, eastern part of Ilha Comprida, 24°52'S, 047°48'W, 3 m alt., dry and light coastal forest not subjected to flooding (restinga), on bark of unknown tree. – 1.IX.1980, leg. K. Kalb (32259), det. A. Frisch.

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559. **Stegobolus auberianus** (Mont.) A.Frisch & Kalb

BRAZIL, São Paulo, Praia de Peruibe near Itanhaém, 24°10'S, 046°50'W, 5 m alt., dense coastal forest not subjected to flooding (restinga), on bark of unknown tree. – 24.II.1979, leg. K. Kalb (31163) & G. Plöbst, det. A. Frisch.

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560. **Stegobolus radians** (Müll.Arg.) A.Frisch

BRAZIL, São Paulo, Ilha de São Sebastião, 130 km E of São Paulo, western slopes of Morro das Tacas, 23°50'S, 045°20'W, 600 m alt., in a light and very humid rainforest, on bark of unknown tree. – 21.IV.1978, leg. K. Kalb (31758) & G. Plöbst, det. A. Frisch.

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561. **Stegobolus schizostomus** (Tuck.) A.Frisch

GUATEMALA, Petén, surroundings of Tikal, 17°13'N, 089°24'W, 300 m alt., humid and dark primary rainforest, on bark of unknown tree. – 10.I.1979, leg. K. Kalb (31782) & G. Plöbst, det. A. Frisch.

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562. **Stenocybe septata** (Leight.) A.Massal.

SPAIN, Islas Canarias, Tenerife, Macizo de Anaga, NW of Las Carboneras, road to Chinamada, 28°33'N, 016°16'W, 700 m alt., relicts of a laurel forest (vicinity of a resting place), on bark of *Ilex perado* ssp. *platyphylla*. – 27.IV.2005, leg. & det. J. Hafellner (64203).

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563. **Stereocaulon alpinum** Laurer

AUSTRIA, Salzburg/Steiermark (= Styria) (border area), Niedere Tauern, Schladminger Tauern, 24 km NW of Murau, Preber, path from Grazer Hütte to the summit of Preber, ridge area between Bockleiteneck and Roßscharte, 47°12'53"N, 013°52'03"E, MTB 8749/3, 2450-2530 m alt., alpine pastures with siliceous rocks along a windblown ridge, on ground. – 15.VIII.2006, leg. & det. W. Obermayer (11173).

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564. **Sticta sylvatica** (Huds.) Ach.

AUSTRIA, Steiermark (= Styria), Ennstaler Alpen, Gesäuse National Park, Hartelsgraben, 4 km SW of Hieflau, 47°34'N, 014°42'E, MTB 8454/1, 860-940 m alt., ravine forest, on *Fagus sylvatica*. – 23.VII.1994, leg. H. Mayrhofer (17120) & C. Scheuer, det. W. Obermayer (2007).

Note: The delimitation against *Sticta fuliginosa* seems to be difficult.

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565. Strigula smaragdula Fr.

URUGUAY, Artigas, Estancia El Tigre, Colonia Palma, 10 km W of Colonia Palma town, 30°40'S, 057°40'W, 100 m alt., marginal forest of the brook Tigre, on leaves of *Cupania vernalis*. – 5./8.XIII.1975, leg. & det. H.S. Osorio (7242).

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566. Strigula smaragdula Fr.

URUGUAY, Salto, Uruguay river, Salto Grande Island, 31°14'S, 057°55'W, on leaves of *Eugenia pungens*. – 4./6.II.1972, leg. & det. H.S. Osorio (6683).

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567. Teloschistes capensis (L.f.) Müll.Arg.

NAMIBIA, Erongo, Namib desert, N of Swakopmund, lichen fields, 22°34'S, 014° 31'E, 10 m alt., road along the beach, on ground. – 22.VIII.2006, leg. U. Brosch (herb. Obermayer no.11252), det. W. Obermayer.

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568. Thelotrema pachysporum Nyl.

BRAZIL, São Paulo, Praia de Peruibe near Itanhaém, 24°10'S, 046°50'W, 2 m alt., dense mangrove forest, on *Laguncularia racemosa*. – 24.II.1979, leg. K. Kalb (33123), det. A. Frisch.

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569. **Toninia candida** (Weber) Th.Fr.

AUSTRIA, Steiermark (= Styria), Salzkammergut, Totes Gebirge, 1.9 km NNE of Altaussee, S-facing slopes of Loser, 0.7 km W of Loser-Hütte, path from Loser-Hütte to Blaa-Alm, 47°39'25"N, 013°46'30"E, MTB 8348/2, 1420 m alt., ski-slope, on strongly inclined surface of a small limestone boulder. – 31.XII.2006, leg. & det. W. Obermayer (11290).

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570. **Trapelia placodioides** Coppins & P.James

AUSTRIA, Kärnten (= Carinthia), Karnische Alpen, 7 km SSW of Kötschach-Mauthen, 3.1 km E of Plöckenpass, path from the valley of the brook 'Angerbach' to 'Heldenfriedhöfe', 46°36'25"N, 012°59'10"E, MTB 9343/4, 1380 m alt., N-exposed mixed forest, on small schistose boulder (shady conditions, near ground). – 18.VII.2007, leg. & det. W. Obermayer (11437).

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571. **Trapeliopsis aeneofusca** (Flörke ex Flot.) Coppins & P.James

AUSTRIA, Oberösterreich (= Upper Austria), Kobernaußer Wald, 700 m SE of Stelzen, 48°05'23"N, 013°34'13"E, MTB 7846, 700 m alt., on soil (above molasse). – 31.III.1999, leg. F. Berger, G. Neuwirth, F. Priemetzhofer & R. Türk (27043), det. R. Türk.

Note: Specimen in GZU with fruiting bodies (apothecia orange-brownish, with a narrow white margin, hymenium colourless, epihymenium slightly brownish, spores 13x5 µm, thallus and soralia C-).

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

AUSTRIA, Salzburg, Flachgau, 5.8 km SSE of 'Neumarkt am Wallersee', Henndorfer Wald, valley of the brook Klausbach, path from Jägerwiese to Hasenkopf, 47°54'18"N, 013°16'07"E, MTB 8045/4, 755 m alt., on bare soil (above flysch). – 28.IX.2007, leg. & det. R. Türk (42793).

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

AUSTRIA, Steiermark (= Styria), Oststeirisches Riedelland, 8.4 km E of the centre of Graz, 2.7 km WNW of Laßnitzhöhe, Äußere Ragnitz, path to 'Doktorbauer', 47°05'00"N, 15°32'50"E, MTB 8959/1, 480 m alt., mixed forest (*Fagus-Acer-Pinus-Picea-Abies*), slope of a forestry road, on shaded soil. – 20.III.2006, leg. & det. W. Obermayer (11007).

Note: Thallus sterile, with typical, pale green (at the beginning separated, but later on strongly confluent) soralia.

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574. *Tuckneraria laureri* (Kremp.) Randle & Thell

AUSTRIA, Salzburg, Lungau, 9.2 km NE of Tamsweg, Überling-Sonnseite, 47°10'16"N, 013°54'43"E, MTB 8849/1, 1725 m alt., on *Picea abies* and *Larix decidua*. – 21.VI.2005, leg. & det. G. Brunnauer (ex herb. Türk 37623).

Note: Specimen in GZU with apothecia.

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575. *Usnea intermedia* (A.Massal.) Jatta s.l.

AUSTRIA, Steiermark (= Styria), Zentralalpen, Gurktaler Alpen, Grebenzen, E-facing slopes, 4.4 km SW of Neumarkt, 500 m NE of the church of Pöllau, 47°02'35"N, 14°23'30"E, MTB 8952/3, 1150 m alt., edge of a forest with *Larix decidua* and *Picea abies*, on *Larix decidua*. – 1.IX.2004, leg. W. Obermayer (10515b), det. Ph. Clerc (2006).

Note (Obermayer): 'Type II' (thallus yellowish-green, pendulous).

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576. *Usnea intermedia* (A.Massal.) Jatta s.l.

AUSTRIA, Steiermark (= Styria), Zentralalpen, Gurktaler Alpen, Grebenzen, E-facing slopes, 4.4 km SW of Neumarkt, 500 m NE of the church of Pöllau, 47°02'35"N, 14°23'30"E, MTB 8952/3, 1150 m alt., edge of a wood with *Larix decidua* and *Picea abies*, on *Larix decidua*. – 1.IX.2004, leg. W. Obermayer (10515a), det. Ph. Clerc (2006).

Note (Obermayer): 'Type I' (thallus glaucous-green [→'U. glauca'], rather stout and loose shrubby).

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577. *Usnea rubiginea* (Michx.) A.Massal.

RÉUNION, [overseas département of France, belonging to the Mascarene Islands], [no further, more detailed location data given], 21°10'S, 055°40'E, on twigs of unknown tree. – IV.1989, leg. G. Follmann & I. Follmann-Schrag (s.n.), det. H. Sipman (2006).

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578. *Verrucaria elaeomelaena* (A.Massal.) Anzi non auct.

AUSTRIA, Steiermark (= Styria), Nördliche Kalkalpen, Hochschwab-Gruppe, Aflenzer Staritzen N of Seewiesen, E-exposed cirque close to the Gamssteig, 47°38'00"N, 015°15'20"E, MTB 8357/4, 1500-1600 m alt., stands of *Pinus mugo* at the timber line, on limestone rocks in a wellspring bed. – 16.VIII.2003, leg. & det. J. Hafellner (63716).

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579. *Xanthodactylon flammeum* (L.f.) C.W.Dodge

SOUTH AFRICA, Cape Province, 80 km SSE of Alexander Bay, Port Nolloth, Larus Beach House, 49°16'S, 016°53'E, 10 m alt., beach area along the Atlantic Ocean, on shrubs. – 27.VIII.2006, leg. U. Brosch (herb. Obermayer no 11235), det. W. Obermayer.

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580. Xanthoria fallax (Hepp) Arnold

SLOVENIA, 20 km ESE of Koper, 0.2 km SSE of Rakitovec, 45°28'25"N, 013°58'08"E, 520 m alt., old schoolhouse with rockery, on *Acer campestre*. – 8.VI.2006, leg. H. Mayrhofer (16537) & S.Harutyunyan, det. H. Mayrhofer.

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Zeitschrift/Journal: [Fritschiana](#)

Jahr/Year: 2007

Band/Volume: [60](#)

Autor(en)/Author(s): Obermayer Walter

Artikel/Article: [Dupla Graecensia Lichenum \(2007, nos 481-580\) 7-34](#)