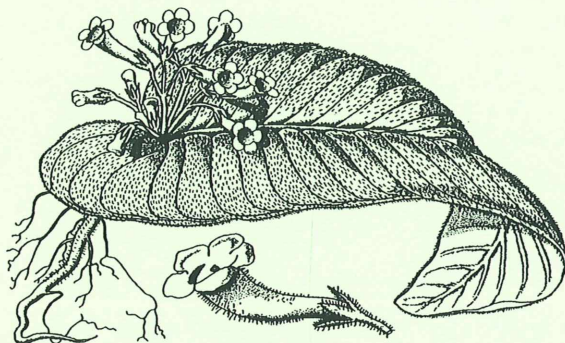


FRITSCHIANA

21



Veröffentlichungen aus dem Herbarium
des Institutes für Botanik
der Karl-Franzens-Universität Graz (GZU)

Walter OBERMAYER

Lichenotheca Graecensis, Fasc. 7 & 8 (Nos 121 - 160)
Dupla Graecensia Lichenum (1999)

Josef HAFELLNER

Einige Flechtenfunde in den Mürztaler Alpen
(Steiermark, Österreich)

Graz, 29. Dezember 1999

Hofrat Prof. Dr. Karl FRITSCH
(*24.2.1864 in Wien, † 17.1.1934 in Graz)

K. FRITSCH studierte nach einem Jahr in Innsbruck an der Universität Wien Botanik und wurde dort 1886 zum Dr.phil. promoviert; 1890 habilitierte er sich. Nach Anstellungen in Wien wurde FRITSCH 1900 als Professor für Systematische Botanik an die Universität Graz berufen, wo er aus bescheidenen Anfängen ein Institut aufbaute. 1910 wurde er Direktor des Botanischen Gartens, 1916 wurde das neu errichtete Institutsgebäude bezogen. Aus der sehr breiten wissenschaftlichen Tätigkeit sind vor allem drei Schwerpunkte hervorzuheben: Floristisch-systematische Studien, besonders zur Flora von Österreich, monographische Arbeiten (besonders über *Gesneriaceae*) und Arbeiten zur systematischen Stellung und Gliederung der Monocotylen. An Kryptogamen interessierten ihn besonders Pilze und Myxomyceten.

Nachrufe: KNOLL F. 1934, Ber. Deutsch. Bot. Ges. 51: (157) - (184) (mit Schriftenverzeichnis). - KUBART B. 1935, Mitt. Naturwiss. Ver. Steiermark 71: 5 - 15 (mit Porträt). - TEPPNER H. 1997, Mitt. Geol. Paläont. Landesmus. Joanneum (Graz) 55: 133 - 136. – Im übrigen vgl. STAFLEU F.A. & COWAN R.S. 1976, Tax. Lit. 1: 892 und BARNHART J.H. 1965, Biogr. Notes Botanists 2: 12.

Graz, November 1997

H. TEPPNER

Die Serie FRITSCHIANA wurde als Publikationsorgan für die zahlreichen Aktivitäten im Zusammenhang mit der botanischen Sammlung des Institutes für Botanik der Karl-Franzens-Universität Graz (GZU) gegründet. Vor allem zahlreiche Schedae-Hefte der von den Mitarbeitern herausgegebenen Exsiccatenwerke sollten hier erscheinen, aber auch Exkursionsberichte sowie Listen und Indices besonders wertvoller Bestände in GZU. Das Spektrum wurde inzwischen auf floristische und kleinere taxonomische Arbeiten ausgeweitet. Die Schedae-Hefte des von Prof. Dr. Josef POELT begründeten, inzwischen abgeschlossenen Exsiccatenwerkes *Plantae Graecenses* sind die Vorläufer dieser Schriftenreihe.

Gesamtredaktion: ao. Univ.-Prof. Mag. Dr. Helmut MAYRHOFER
Karl-Franzens-Universität Graz
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FRITSCHIANA

Veröffentlichungen aus dem Herbarium
des Institutes für Botanik
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Walter OBERMAYER

Lichenotheca Graecensis, Fasc. 7 & 8 (Nos 121 - 160)
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**Einige Flechtenfunde in den Mürztaler Alpen
(Steiermark, Österreich)**
pp. 31 - 35

Graz, 29. Dezember 1999

II

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Lichenotheca Graecensis, Fasc. 7 & 8 (Nos 121 - 160)

Walter OBERMAYER*

OBERMAYER, W. 1999: Lichenotheca Graecensis. Fasc. 7 & 8 (Nos 121 - 160). - Fritschiana 21: 1 - 11. Graz. - ISSN 1024-0306

Abstract: Fascicles 7 & 8 of Lichenotheca Graecensis comprise 40 lichen collections from the following countries (and administrative subdivisions): Argentina (Misiones), Austria (Lower Austria; Salzburg; Styria; Tirol; Upper Austria), Brazil (Santa Catarina State), China (Tibet, Prov. Xizang), France (Corsica), Italy (Trentino/Alto-Adige), New Zealand (South Island), Norway (Svalbard), Portugal (Madeira Islands), Russia (Severnaya Zemlya), and Spain (Canary Islands). TLC-investigations were carried out for *Buellia zoharyi*, *Cladonia grayi*, *Platismatia glauca*, *Pseudocyphellaria crocata*, and *Rinodina cacaotina*. *Pannaria rubiginosa* and *Pseudocyphellaria crocata* are distributed as part of the results of the 'Sino-German Joint Expedition to Southeastern and Eastern Tibet 1994'.

*Walter OBERMAYER, Institut für Botanik, Karl-Franzens-Universität Graz, Holteigasse 6, A-8010 Graz, AUSTRIA
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homepage: <http://www-ang.kfunigraz.ac.at/~oberma/home.htm>

The exsiccata series Lichenotheca Graecensis is distributed on a basis of exchange to the following 20 herbaria and private collections (herbarium abbreviations follow <http://www.nybg.org/bsci/ih/searchih.html>): ASU, B, C, CANB, CANL, E, ESS, G, GZU, H, HMAS, LE, M, MAF, MIN, O, TNS, UPS, Dr. K. Kalb, Dr. A. Vězda. Abbreviations of authors of plant names are taken from <http://djangoharvard.edu/huh/author.html>. A text version of Lichenotheca Graecensis is kept under <http://www-ang.kfunigraz.ac.at/~oberma/li-grz1.htm>.

Many thanks are due to the following collectors for their contributions to the seventh and eighth fascicle: Franz BERGER, Tassilo FEUERER, Martin GRUBE, Angela & Josef HAFELLNER, Jana KOCOURKOVÁ, Helmut MAYRHOFER, J.E. MONTES, G. NEUWIRTH, Héctor S. OSORIO, Josef POELT (†), Franz PRIEMETZ-HOFER, Ulrik SØCHTING, Ulrike TRINKAUS, Roman TÜRK, Mikhail ZHURBENKO, and Roberto ZORER.

The expedition of the author to southeastern Tibet in 1994 was supported by the Austrian Science Fund (P09663-BIO).

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

121. *Allocetraria madreporiformis* (ACH.) KÄRNEFELT & THELL - Syn: *Dactylina madreporiformis* (ACH.) TUCK.

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2850 - 2900 m alt., on mineral rich soil.

4.IX.1998

leg. & det. W. OBERMAYER (7746)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

122. *Arctocetraria nigricascens* (NYL.) KÄRNEFELT & THELL

RUSSIA, Severnaya Zemlya, NW extremity/part of Bo'shevik Island, peninsula with cape Baranova, eastern coast of Shokalskogo Strait, 1 km SE of "Mys Baranova" polar station, 50 m away from the strait coast, slope of coastal terrace, 79°16'N/101°40'E, 10 - 20 m alt, fine to medium gravel with silt/loam, on soil.

14.VII.1996

leg. & det. M. ZHURBENKO (96150)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

123. *Biatorella ochrophora* (NYL.) ARNOLD

AUSTRIA, Oberösterreich (=Upper Austria), 14 km SW of Ried im Innkreis, Kobernaußer Wald, 1 km SE of Stelzen, 48°06'N/13°22'E, 730 m alt., MTB 7846, on *Sambucus nigra*.

31.III.1999

leg. & det. F. BERGER, G. NEUWIRTH, F. PRIEMETZHOFFER & R. TÜRK (27042)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

124. *Bryoria bicolor* (EHRH.) BRODO & D.HAWKSW.

PORTUGAL, Ilhas da Madeira, Madeira, Pico Areeiro, depression S below the summit, 32°43' 30"N/16°55'30"W, 1700 m alt., *Pinus*-forest, on *Pinus*.

18.II.1990

leg. J. HAFELLNER (41296) & A. HAFELLNER, det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

125. *Buellia zoharyi* GALUN

SPAIN, Islas Canarias, Lanzarote, 2 km S of Haría, around Peñas del Chache, 29°07'N/13°31'15"W, 660 m alt., on soil.

Note: TLC: Atranorin, norstictic acid, stictic acid (tr.), constictic acid (tr.), hypoconstictic acid (tr.), cryptostictic acid (tr.).

12.VIII.1996

leg. & det. U. TRINKAUS & M. GRUBE

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

126. *Caloplaca aegatica* GIRALT, NIMIS & POELT

SPAIN, Islas Canarias, Tenerife, Teno-Mountains, W of Teno Alto, 28°20'35"N/16°52'40"W, 700-750 m alt., pasture-ground on the ridge, on dead twigs of *Chamaecytisus proliferus*.

16.XII.1998

leg. & det. J. HAFELLNER (46458)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

127. *Caloplaca ammiospila* (WAHLENB. in ACH.) H. OLIVIER

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Stubalpe, 12 km WNW of Köflach, 200 m S of Altes Almhaus, Wölkerkogel, 47°04'50"N/14°55'30"E, MTB 8955/2, 1690 m alt., pasture ground with marble outcrops, on plant debris.

10.X.1997

leg. & det. W. OBERMAYER (6524)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

128. *Caloplaca gomerana* J. STEINER

SPAIN, Islas Canarias, Tenerife, distr. Arona, S of Palm-Mar, El Caballo, 50 m away from the coastline, 28°00'30"N/16°42'20"W, 10 m alt., on rock.

14.VII.1997

leg. T. FEUERER (s.n.), det. W. OBERMAYER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

129. *Caloplaca spitsbergensis* H.MAGN.

NORWAY, Svalbard, Albert I Land, Mitrahelvøya, Diesetsletta at Laxebu, UTM VH 2093), 5 m alt., 0-200 m away from the coast, on driftwood trunks.

6.VIII.1989

leg. & det. U. SØCHTING (US 6086)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

130. *Cladonia grayi* G.MERR. ex SANDST. s.str.

AUSTRIA, Steiermark, (=Styria), Ennstal, 7.5 km ENE of Liezen, 0.5 km SE of Pürgschachen, Pürgschachenmoos, 47°35'N/14°20'30"E, MTB 8452/1, 640 m alt., raised bog, on marshy soil with *Sphagnum*.

Note: TLC: Grayanic acid (major), fumarprotocetraric acid (minor), congrayanic acid (tr.), protocetraric acid (tr.); UV366: Blue-white.

20.VIII.1999

leg. & det. W. OBERMAYER (7782)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

131. *Dactylina ramulosa* (HOOK.) TUCK.

RUSSIA, Severnaya Zemlya, N extremity/part of Bol'shevik Island, western coast of Mikoian Bay, 100 - 500 m away from the bay coast, slope of coastal terrace, 79°18'N/101°55'E, 5 - 20 m alt., fine and medium gravel and silt, on soil.

21.VII.1996

leg. & det. M. ZHURBENKO (96259)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

132. *Dibaeis baeomyces* (L.f.) RAMBOLD & HERTEL

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 8 km ESE of Neumarkt, 0.3 km E above the Tonnerhütte, 47°03'04"N/44°32'02"E, MTB 8953/1, 1680 m alt., slope of a forestry road, on soil.

7.IX.1999

leg. & det. W. OBERMAYER (7797)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

133. *Evernia mesomorpha* NYL.

AUSTRIA, Salzburg, Lungau, 7 km NE of Tamsweg, Überling, Dürrenecksee, 47°10'26"N/13°52'34"E, MTB 8849, 1690 m alt., on *Larix decidua*.

10.X.1998

leg. & det. R. TÜRK (26123)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

134. *Hyperphyscia adglutinata* (FLÖRKE) H.MAYRHOFER & POELT

ITALY, Trentino/Alto-Adige, 28 km SW of Trento, Nago, Maritte Dei Giganti, 45°53'N/10°53'E, 220 m alt., on *Olea europaea*.

Note: All specimens with associated *Candelaria concolor*.

27.III.1998

leg. & det. R. TÜRK (26856) & R. ZORER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 (1999, in Fritschiana xxx) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

135. *Lasallia pustulata* (L.) MÉRAT

PORTUGAL, Ilhas da Madeira, Madeira, road from Santa to the plateau of Paul da Serra, Pico Coentros, W above Fonte do Bispo, 32°47'30"N/17°11'W, 1250 m alt., on small volcanic boulders on the ridge.

17.II.1990

leg. J. HAFELLNER (50324) & A. HAFELLNER, det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

136. *Lecanora symmicta* (ACH.) ACH.

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Fischbacher Alpen, NE of Rettenegg, northern ridge of Kleiner Pfaff, SE of Pfaffensattel, 47°34'10"N/15°49'10"E, MTB 8460/2, 1400 m alt, montane spruce forest (*Picea abies*), with intermixed *Larix decidua*, on twigs of *Larix decidua*.

14.XI.1998

leg. J. KOCOURKOVÁ & J. HAFELLNER (46217), det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

137. *Leptochidium albociliatum* (DESM.) M. CHOISY

SPAIN, Islas Canarias, La Gomera, Alto de Cherelepin, N above the road from San Sebastian to Valle Gran Rey, 28°06'50"N/17°15'30"W, 1340 m alt., basalt-cliffs, on bryophytes over SW-exposed, declined rocks.

10.II.1991 leg. J. HAFELLNER (34116) & A. HAFELLNER, det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

138. *Letharia vulpina* (L.) HUE

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Venedigergruppe, 16 km NNW of Matrei, Innerschlöß, WNW of the Venedigerhaus, path from Salzplatten via Ochsenwald to Venedigerhaus, 47°07'30"N/12°26'E, 2050 m alt., MTB 8840/4, S-exposed *Larix-decidua*/*Pinus-cembra*-forest, on *Larix decidua*.

3.IX.1998 leg. & det. W. OBERMAYER (7745)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

139. *Lobaria pulmonaria* (L.) HOFFM.

AUSTRIA, Salzburg, Tennengau, 3 km SW of Kuchl, Gasteig, 680 - 740 m alt., on freshly cut down stems of *Acer pseudoplatanus*.

Note: 12 years before collecting date, the trees have been almost free of lichens due to SO₂ influence. Some of the specimens (e.g. in GZU) include fertile thalli!

20.II.1998 leg. & det. R. TÜRK (24980)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

140. *Micarea adnata* COPPINS

AUSTRIA, Oberösterreich (=Upper Austria), Kalkalpen National Park, Reichraminger Hintergebirge, 5.8 km SSW of Reichraming, Zöbelboden, 47°50'N/14°26'E, 890 m alt., MTB 8152, on bark of *Larix decidua*.

3.VIII.1999 leg. & det. R. TÜRK (28135)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

141. *Normandina pulchella* (BORRER) NYL.

AUSTRIA, Steiermark (=Styria), Eisenerzer Alpen, Sebringgraben S of Johnsbach, lowermost part of the valley, 47°31'45"N/14°36'20"E, MTB 8453/4, 900 m alt., *Fagus/Abies/Picea*-forest above limestone, on bark of *Fagus sylvatica*.

22.VIII.1997

leg. & det. J. HAFELLNER (42675)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

142. *Ochrolechia alboflavescens* (WULFEN) ZAHLBR.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10 km WNW of Obdach, road from Schmelz to Winterleitenhütte, 47°06'N/14°34'18"E, MTB 8953/1, 1740 m alt., high montane forest with *Picea abies* and *Pinus cembra*, on big twigs (bark) of *Picea abies*.

24.VIII.1999

leg. & det. W. OBERMAYER (7769)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

143. *Ochrolechia pallescens* (L.) A.MASSAL.

AUSTRIA, Niederösterreich (=Lower Austria), 8 km SSE of Lilienfeld, S-facing slopes of Reisalpe, path from Brennalm to the Reisalpe-shelter-hut, 47°56'50"N/15°39'E, MTB 8059, 1150 m alt., on *Fraxinus excelsior*.

27.X.1995

leg. & det. R. TÜRK (20558)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

144. *Pannaria rubiginosa* (ACH.) BORY

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 275 km ENE of Lhasa, 70 km E of Gongbo Gyamda, close to the shore of the lake Basum Tso, 30°00'N/93°56'-57'E, 3500 m alt., on *Salix spec.*

30.VIII.1994

leg. & det. W. OBERMAYER (7157)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

145. *Peltigera didactyla* (WITH.) J.R.LAUNDON

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 8 km ESE of Neumarkt, 0.3 km E above the Tonnerhütte, 47°03'04"N/44°32'02"E, MTB 8953/1, 1630 m alt., skiing ground, vertical surfaces of a small furrow, on soil.

7.IX.1999

leg. & det. W. OBERMAYER (7802)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

146. *Phaeorrhiza sareptana* (TOMIN) H.MAYRHOFER & POELT var. *sphaerocarpa* (Th.FR.) H.MAYRHOFER & POELT

RUSSIA, Severnaya Zemlya, N part of Bofshevik Island, western coast of Akhmatov Bay, 7 km SW of the mouth of Bazovaia River, 100 - 200 m away from the bay coast, flat coastal terrace, 79°04'N/102°45'E, 20 m alt., fine to medium gravel with silt, on soil.

15.VII.1996

leg. & det. M. ZHURBENKO (96288)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

147. *Physconia diatorta* (WITH.) J.R.LAUNDON

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Fischbacher Alpen, Feistritzal, just SSW of Ratten, at the junction to St. Kathrein, 47°20'30"N/15°42'45"E, MTB 8560/2, 720 m alt, wooded bank-strip, on bark of *Salix*.

14.XI.1998

leg. J. KOCOURKOVÁ & J. HAFELLNER (46283), det. J. HAFELLNER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

148. *Platismatia glauca* (L.) W.L.CULB. & C.F.CULB.

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 13,5 km W of Deutschlandsberg, way from Glashütten to Weinbene, 46°49'50"N/15°02'30"E, MTB 9156/4, 1350 m alt., montane forest with *Picea abies*, *Abies alba*, and *Larix-decidua*, on *Picea abies*.

Note: TLC: Atranorin, caperatic acid.

14.VIII.1999

leg. & det. W. OBERMAYER (7763)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

149. *Pleopsidium flavum* (BELLARDI) KÖRB.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9.7 km ESE of Neumarkt, 1.6 km ENE of Tonnerhütte, 0.3 km E of Moar, 47°03'17"N/14°33'05"E, MTB 8953/1, 1820 m alt., alpine meadows with siliceous boulders, on mica slate (overhang, SSE-exp.).

5.IX.1999

leg. & det. W. OBERMAYER (7790)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

150. *Pseudocyphellaria crocata* (L.) VAIN.

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 360 km E of Lhasa, near the bend of the river Tsangpo, N-side of Gyala Peri, 6 km S of Dongjug village, 29°56'-58'N/94°53'-54'E, 2600 m alt., on *Populus* spec.

Note: Medulla slightly yellow; TLC: Calycin, pulvinic dilactone, pulvinic acid, stictic acid, constictic acid, cryptostictic acid (minor), hopane triterpenoids.

21.VIII.1994

leg. & det. W. OBERMAYER (6756)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

151. *Pyrenula nitidella* (FLÖRKE) MÜLL.ARG.

AUSTRIA, Oberösterreich (=Upper Austria), Mühlviertel, Bezirk Rohrbach, Gemeinde Pfarrkirchen, 25 km SE of Passau, 400 m S of the ruins of Falkenstein, valley of the river Ranna, 48°29'25"N/13°47'00"E, MTB 7548/2, 370 m alt., on bark of young *Fraxinus excelsior*.

31.X.1999

leg. & det. F. BERGER (s.n.)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

152. *Ramalina celastri* (SPRENG.) SWINSCOW & KROG

ARGENTINIA, prov. Misiones, Candelaria, Loreto, open forest, high place, 27° 19'S/55°32'W, 220 m alt., on trunk and branches of indigenous trees.

6.III.1956

leg. J.E. MONTES (10044), det. H.S. OSORIO (4754)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

153. *Ramalina gracilis* (PERS.) NYL.

BRAZIL, Santa Catarina State, 23,5 km E of Tubarão, 1 km N from Laguna City, Praia do Gi, 28°29'S/48°47'W, 0 - 5 m alt., hygrohaline zone on a beach, on trunk of *Yucca gloriosa*.

26.III.1997

leg. & det. H.S. OSORIO (9324)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

154. *Ramboldia insidiosa* (Th.FR.) HAFELLNER [parasitic lichen on *Lecanora varia*]

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10 km WNW of Obdach, path from Winterleitenhütte to Speikkogel, 47°05'38"N/14°33'50"E, MTB 8953/1, 1860 m alt., open forest near timberline (with *Pinus cembra*, *Picea abies*, *Larix decidua*), on wood of overthrown *Pinus cembra* (horizontal faces).

24.VIII.1999

leg. & det. W. OBERMAYER (7772)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

155. *Rhizocarpon ridescens* (NYL.) ZAHLBR.

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Venedigergruppe, 7 km NNW of Matrei, Innerschloß, 2.4 km WNW of Venedigerhaus, path from Salzplatten via Ochsenwald to Venedigerhaus, 47°07'50"N/12°25'20"E, MTB 8840/4, 1915 m alt., on WSW-exposed, vertical rock faces (mica slate).

3.IX.1998

leg. & det. R. TÜRK, W. OBERMAYER (7858) & F. PRIEMETZHOFFER

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

156. *Rinodina cacaotina* ZAHLBR.

NEW ZEALAND, South Island, Marlborough, Whites Bay NE of Rarangi, NE of Blenheim, 41°22'30"S/174°04'30"E, 5 m alt., on coastal rocks (greywacke).

Note: TLC: No lichen substances detected.

30.VIII.1992

leg. & det. H. MAYRHOFER (10817)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

157. *Rinodina sophodes* (ACH.) A.MASSAL.

FRANCE, Corse (=Corsica), Haut-Corse, 12 km SE of Ponte Leccia, Col de Prato, E of Morosaglia, slopes of Monte San Petrone, S of Col de Prato, 42° 25'N/09°20'E, 1150 m alt., on *Castanea sativa*.

19.V.1990

leg. & det. H. MAYRHOFFER (13925) & K. ROPIN

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

158. *Sticta arctica* DEGEL.

RUSSIA, Severnaya Zemlya, N part of Bol'shevik Island, western coast of Akhmatov Bay, 7 km SW of the mouth of Bazovaia River, flat plain between mountains and bay coast, 79°04'N/102°41'E, 40 m alt., fine and medium gravel (80%) and silt/sand (20%), in micro-depressions, on soil (locally abundant).

18.VII.1996

leg. & det. M ZHURBENKO (96308)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

159. *Strigula stigmatella* (ACH.) R.C.HARRIS

AUSTRIA, Salzburg, Flachgau, Henndorfer Wald, Kolomannsberg, Stögerbrücke, 47°52'N/13°16'30"E, MTB 8145/1, 760 – 780 m alt., on bark (and bryophytes) of *Fraxinus excelsior*.

Note: P.p. intermixed with *Biatordium monasteriense*.

25.IV.1998

leg. & det. R. TÜRK (25250a)

Walter OBERMAYER: *Lichenotheca Graecensis*, Fasc. 7 & 8 (1999, in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz [GZU]*

160. *Trapelia obtegens* (Th.FR.) HERTEL

AUSTRIA, Oberösterreich (=Upper Austria), Mühlviertel, Böhmerwald, 35 km NE of Passau, Schwarzenberg, 48°44'N/13°49'E, 710 - 750 m alt., MTB 7249, on pebbles (granite) on the ground.

5.IV.1994

leg. & det. J. POELT & R. TÜRK (s.n.)

Dupla Graecensia Lichenum (1999)

Walter OBERMAYER*

OBERMAYER, W. 1999: Dupla Graecensia Lichenum (1999). - Fritschiana 21: 13 - 30. Graz. - ISSN 1024-0306

Abstract: Dupla Graecensia Lichenum (1999) contains 70 collections of lichen-doublets (including 6 lichenicolous fungi) from Australia (New South Wales; Tasmania), Austria (Carinthia; Salzburg; Styria; Tirol; Upper Austria), Brazil (Parana), Chile (Magallanes y Antártica Chilena), China (Tibet, prov. Xizang), Greece (Crete), Italy (Tuscany; Trentino/Alto-Adige), Mexico (Baja California Sur), Mongolia (Govi Altai), New Zealand (South Island), Russia (Severnaya Zemlya), Spain (Canary Islands), Uruguay (Artigas; Canelones; Lavalleja; Maldonado; Rocha), and U.S.A. (Idaho). Isotypes of *Arthonia digitatae* HAFELLNER, *Arthonia tavaresii* GRUBE & HAFELLNER, and topotypes of *Calicium isabellinum* TIBELL and *Mycocalicium anomalum* TIBELL are distributed. TLC-results are presented for *Buellia fimbriata*, *Calicium isabellinum*, *Cladonia bellidiflora*, *Dimelaena oreina*, *Micarea lignaria*, *Ochrolechia upsaliensis*, *Phaeorrhiza nimbosea*, *Rinodina canariensis*, *R. murrayi*, *R. thiomela* and *Thamnolia vermicularis* var. *vermicularis*. *Bryonora stipitata* and *Umbilicaria yunnana* are issued as a part of the results of the 'Sino-German Joint Expedition to Southeastern and Eastern Tibet 1994'.

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Dupla Graecensia Lichenum (1999), issued by the herbarium of the Institute of Botany of the Karl-Franzens-University, Graz, Austria (internat. abbr.: GZU), includes lichens and lichenicolous fungi from all over the world with five to ten doublets of each collection. Every institution receiving a duplicate is cited (at the bottom line of every label) with its international herbarium abbreviation (see <http://www.nybg.org/bsci/ih/searchih.html>): The herbaria in Canberra (CANB), Graz (GZU), Munich (M), New York (NY), and Uppsala (UPS) will receive all distributed species 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://djangoharvard.edu/huh/author.html>. Dupla Graecensia Lichenum is kept as text version under <http://www-ang.kfunigraz.ac.at/~oberma/dupl-graec.htm>.

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Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

31. *Acarospora sinopica* (WAHLENB.) KÖRB.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Wölzer Tauern, Walchen Graben SE of Öblarn, S-facing slopes E of the Bergkreuzkapelle, 1250 m alt., 47°25'40"N/14°04'E, MTB 8550/3, mine dump of a historical chalcopyrite-mining, on small, ore-bearing slabs of mica schist. – 10.VI.1998, leg. & det. J. HAFELLNER (47218) & M. MÖSLINGER.

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

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32. *Agonimia opuntiella* (BUSCHARDT & POELT) VĚZDA

[Syn: *Physcia opuntiella* BUSCHARDT & POELT]

AUSTRIA, Kärnten (=Carinthia), Villach, near Warmbad-Villach, Dobratsch, Tscheltschnigkogel, 100 m SE of the entry to the cave called Eggerloch, S-facing sheer rock walls (limestone), 46°35'34"N/13°49'05"E, 620 m alt., MTB 9448/2, on bryophytes (e.g. *Orthotrichum anomalum*). – 25.VIII.1997, leg. H. KOMPOSCH (2272) & A. WILFLING, det. H. KOMPOSCH.

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

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33. *Arthonia digitatae* HAFELLNER - ISOTYPE

[lichenicolous fungus on *Cladonia digitata*]

AUSTRIA, Steiermark (=Styria), Eisenerzer Alpen, Sebringgraben S of Johnsbach, just N below the Wolfsbacher Niederalp, 1050 m alt., 47°31'20"N/14°36'10"E, MTB 8453/4, *Fagus-Acer*-forest above limestone, on shadowed, rotten stumps. – 22.VIII.1997, leg. & det. J. HAFELLNER (46588).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

34. *Arthonia peltigerina* (ALMQ.) H.OLIVIER

[lichenicolous fungus on *Solorina crocea*]

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2850 m alt., on mineral rich soil. – 4.IX.1998, leg. W. OBERMAYER (7859), det. J. HAFELLNER.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana xx) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

35. *Arthonia radiata* (PERS.) ACH.

AUSTRIA, Steiermark (=Styria), Niedere Tauern, Triebener Tauern, Liesing SW of Wald am Schoberpaß, between the farmsteads Habenbacher and Reichstaller, 47°25'10"N/14°38'40"E, MTB 8553/4, 1080 m alt., *Alnus incana* stands along a rivulet, on twigs of *Sorbus aucuparia*. – 28.XI.1999, leg. & det. J. HAFELLNER (50063).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana xx) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

36. *Arthonia tavaresii* GRUBE & HAFELLNER - ISOTYPE [lichenicolous fungus on thallus of *Pyrenula* spec.]

SPAIN, Islas Canarias, Tenerife, Macizo de Anaga, Montes de las Mercedes, by the deviating to El Moquinal NE above Las Mercedes, 28°31'30"N/16°17'W, 880 m alt., on trunks of evergreen trees.. – 8.XI.1989, leg. J. & A. HAFELLNER (23619), det. J. HAFELLNER.

Note: Further isotypes have already been issued (sub exsiccata number 255) by SANTESSON, R. (1998): Fungi Lichenicoli Exsiccati. - Thunbergia 28: 1 - 19. - Holotype in GZU.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

37. *Bacidia alutacea* (KREMP.) ZAHLBR.

URUGUAY, depto. Canelones, Parque Nacional "F.D.Roosevelt", 34°50'S/56°03'W, on *Eucalyptus camaldulensis*. – 6.I.1969, leg. & det. H.S. OSORIO (6841).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21) distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

38. *Biatorella hemisphaerica* ANZI

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, Ködnitztal NE above Kals, right N above the Lucknerhütte, 2300 m alt., MTB 8942/3, 47°02'35"N/12°41'30"E, low rocks of limestone-schist in W-facing alpine pioneer formation, on soil. – 4.IX.1998, leg. & det. J. HAFELLNER (46772).

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

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
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39. *Bryonora stipitata* POELT

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 345 km E of Lhasa, 20 km NE of Nyingchi, 5 km E of the pass, near the timber line, 29°38'N/94°42'E, 4200 - 4300 m alt., *Juniperus*-(*Abies*)-forest with siliceous boulders, on soil. – 26.VIII.1994, leg. & det. W. OBERMAYER (7604).

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

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
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40. *Buellia fimbriata* (TUCK.) SHEARD

SPAIN, Islas Canarias, Tenerife, Teno mountains, NW below the Teno Alto, path down to the northern coast, above Las Casas, E of Punta de Teno, 28°21'05"N/16°54'20"W, 400 m alt., succulent scrub, on volcanic outcrops. – 16.XII.1998, leg. H. MAYRHOFFER (13813) & J. HAFELLNER, det. H. MAYRHOFFER.

Note: All specimens with associated *Dimelaena radiata* (TUCK.) MÜLL. ARG. – TLC: 3-chloro-divaricatic acid.

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

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

41. *Buellia megapotamica* MALME

URUGUAY, depto. Rocha, La Esmeralda, Route 9, road-km 285.5, ~34°12'S/53°52'W, on *Pyracantha* spec. (cult.). – 27.XII.1997, leg. A. MONES (s.n.; herbarium MVM no. 2459), det. H.S. OSORIO.

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

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
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42. *Buellia megapotamica* MALME

URUGUAY, depto. Canelones, Balneario Guazú Virá, 34°28'S/55°54'W, on trunk of *Pinus* spec. – 6.X.1984, leg. & det. H.S. OSORIO (8421).

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Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
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43. *Calicium isabellinum* TIBELL - TOPOTYPE

CHILE, Magallanes y Antártica Chilena, Península de Brunswick, 52 km S of Punta Arenas, Fuerte Bulnes, *Nothofagus*-forest, 53°37'S/70°57'W, 100 m alt., on rotten wood. – 5.I.1981, leg. K. KALB (32727), det. L. TIBELL (1997).

Note: TLC (Tibell): Isousnic acid.

distributed to: CANB, GZU, M, NY, UPS, hb KALB

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
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44. *Candelariella plumbea* POELT & VĚZDA

AUSTRIA, Kärnten (=Carinthia), Villach, near Warmbad-Villach, Dobratsch, S-facing slopes of Tscheltschnigkogel, Eggerloch, open scrub with *Ostrya carpinifolia*, *Quercus robur*, and *Pinus sylvestris*, 46°35'33"N/13°49'08"E, 620 m alt., on S-facing sheer rock walls (limestone). – 25.VIII.1997, leg. H. KOMPOSCH (2255) & A. WILFLING, det. H. KOMPOSCH.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
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45. *Catolechia wahlenbergii* FLOT.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9 km W of Obdach, path from Lindersee to Zirbitzkogel, 50 m S of Lindersee, 47°04'13"N/14°34'11"E, MTB 8953/1, 2100 m alt., steep N-facing slopes with silicate outcrops, on rock-covering bryophytes on wet, sheer rock walls. – 22.VIII.1999, leg. & det. W. OBERMAYER (7768).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
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46. *Cercidospora verrucosaria* (LINDS.) ARNOLD

[lichenicolous fungus on *Megaspora verrucosa*]

AUSTRIA, Steiermark (=Styria), Nördliche Kalkalpen, Totes Gebirge, area of Tauplitzalm, NE of Bad Mitterndorf, Bartrücken N above the Steirersee, 47°37'25"N/14°01'55"E, MTB 8350/3, 2130 m alt., wind-edge of the summit area (Caricetum firmæ), on plant debris. – 4.VII.1999, leg. & det. J. HAFELLNER (48906).

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana xx)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

47. *Chaenothecopsis kalbii* TIBELL & K.RYMAN

[lichenicolous fungus on *Lecanora caesiurubella*]

MEXICO, Baja California Sur, NE of Puerto Cancún, at turnoff to El Cocuyo, 21 road-km SW of Highway 1, 24°35'N/111°42'W, 40 m alt., coastal plain with desert scrub, on bark of *Jatropha*. – 19.II.1993, leg. J. & A. HAFELLNER (44903), det. J. HAFELLNER.

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

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

48. *Cladia aggregata* (SW.) NYL.

URUGUAY, Lavalleya, Arroyo Marmarajá and route 8, road-km 162, 10 km N of Aiguá town, 34°12'S/54°45'W, on rocks. – 22.VIII.1976, leg. L. AMARAL DE GAMBARELLA (MVM no 17731), det. H.S. OSORIO, 1976, conf. T. AHTI, 1979.

Note: Barbatic acid strain.

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

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
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49. *Cladina confusa* (R.SANT.) FOLLMANN & AHTI f. *confusa*

URUGUAY, depto. Maldonada, small unnamed road between Route 39 and Route 109 near Sierra de las Cañas, slope of a small hill, 34°32'S/54°49'W, on ground between rocks. – 13.VIII.1998, leg. IZAGUIRRE, BEYHAUT & BONIFACINO (s.n.; herbarium OSORIO no. 9359), det. H.S. OSORIO, dupl. confirm. T. AHTI 1998.

Note: Locally common

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Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
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50. *Cladina stygia* (FR.) AHTI

AUSTRIA, Steiermark (=Styria), Ennstal, 7.5 km ENE of Liezen, 0.5 km SE of Pürgschachen, Pürgschachenmoos, 47°35'N/14°20'30"E, 8452/1, 640 m alt., bog, on marshy soil (with *Sphagnum* spec. div., *Polytrichum strictum*, *Drosera rotundifolia*). – 20.VIII.1999, leg. & det. W. OBERMAYER (7787).

distributed to: BG, CANB, GZU, H, M, NY, UPS, US

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1999) (in Fritschiana 21)
distributed by the *Institut für Botanik, Karl-Franzens-Universität, Graz, Austria* [GZU]

51. *Cladonia bellidiflora* (ACH.) SCHAEER.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10.5 km W of Obdach, path from Großer Winterleitensee via Ochsenboden to Kreiskogel, 47°05'N/14°33'36"E, MTB 8953/1, 2000 m alt., alpine meadows with boulders, between bryophytes on steep faces of a moos-covered, small boulder. – 24.VIII.1999, leg. & det. W. OBERMAYER (7792).

Note: TLC: Usnic acid, squamatic acid, rhodocladonic acid (in apothecia), two unknown yellow pigments. Associated with *Cladonia crispata* var. *ceptrariiformis* (TLC: squamatic acid).

distributed to: CANB, GZU, H, M, NY, UPS, US

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52. *Coccocarpia erythroxyli* (SPRENG.) SWINSCOW & KROG

CHINA, Tibet, prov. Xizang, Tibetan Himalaya, Everest E, 13 km NNE of Makalu, Kama Chu, Sakyetang to Kangchung Glacier (Camp Ev4-5), 27°59'N/87°10'E, 4430 m alt., alpine *Rhododendron-Sorbus* scrub, on bryophytes. – 23.X.1989, leg. B. DICKORÉ (K-77-9), det. W. OBERMAYER.

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53. *Cyphelium pinicola* TIBELL

AUSTRIA, Steiermark, Seetaler Alpen, 10 km WNW of Obdach, path from Winterleitenhütte to Speikkogel, 1860 m alt., 47°05'38"N/14°33'50"E, MTB 8953/1, open forest with *Pinus cembra* (*Picea abies*, *Larix decidua*), near timberline, on wood of overthrown *Pinus cembra* (vertical faces). – 24.VIII.1999, leg. & det. W. OBERMAYER (7771).

Note: P.p. associated with *Cyphelium tigillare*, *Lecanora mughicola*, *Lecanora varia*, *Ramboldia insidiosa*.

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54. *Dacampia engeliana* (SAUT.) A.MASSAL. [lichenicolous fungus on *Solorina* spec.]

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Glocknergruppe, Ködnitztal NE above Kais, right N above the Lucknerhütte, 2300 m alt., MTB 8942/3, 47°02'35"N/12°41'30"E, low rocks of limestone-schist in W-facing alpine pioneer formation, on bryophytes and plant-debris. – 4.IX.1998, leg. & det. J. HAFELLNER (46748)

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55. *Dibaeis baeomyces* (L.fil.) RAMBOLD & HERTEL

AUSTRIA, Kärnten (=Carinthia), Gurktal, 10 km E of Gnesau, 46°47'N/14°02'E, MTB 9250/1, 980 m alt., S-exposed slopes of a forest road. – 10.IX.1998, leg. H. MAYRHOFFER (13719) & C. ZEINER, det. H. MAYRHOFFER

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56. *Dimelaena oreina* (ACH.) NORM. chemotype V

U.S.A., Idaho, Clark county, 100 km NW of Idaho Falls, Skull Canyon E of Birch Creek Valley, 44°09'N/112°54'W, 2050 m alt., on limestone. – 31.VII.1999, leg. H. MAYRHOFER (13881), R. ROSENTERER & C.B. DAVIS, det. H. MAYRHOFER.

Note: TLC: Usnic acid, stictic acid, norstictic acid (tr.), hypoconstictic acid (tr.).

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57. *Dimerella pineti* (ACH.) VĚZDA

AUSTRIA, Oberösterreich (=Upper Austria), Kalkalpen National Park, Reichraminger Hintergebirge, 5.8 km SSW of Reichraming, Zöbelboden, 47°50'N/14°26'E, 920 m alt., MTB 8152, on bark of *Picea abies*. – 3.VIII.1999, leg. & det. R. TÜRK (28146).

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58. *Diploschistes muscorum* (SCOP.) R.SANT.

[p.p. lichenicolous on *Cladonia pyxidata*]

AUSTRIA, Steiermark (=Styria), Murberge, Stolzalpe, 1.2 km NE of Murau, shortly SE of the chapel, 47°07'10"N/14°11'25"E, MTB 8851/3, clearance in a mixed forest with conifers, on saxicolous bryophytes. – 13.V.1999, leg. & det. J. HAFELLNER (48947).

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59. *Fulgensia bracteata* (HOFFM.) RÄSÄNEN var. *alpina* (TH.FR.) RÄSÄNEN

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2850 m alt., on mineral rich soil. – 4.IX.1998, leg. W. OBERMAYER (7158), det. Th. KASALICKY, 1999.

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60. *Melanelia fuliginosa* (FR. ex DUBY) ESSL.

AUSTRIA, Steiermark (=Styria), Nördliche Kalkalpen, 13.5 km W of Mariazell, Yppstaler Alpen, Geißangergraben, E-exposed slopes, 47°45'35"N/15°08'15"E, MTB 8256/2, 1140 m alt., primeval forest with *Fagus sylvatica*, *Abies alba*, and *Picea abies*, on bark of *Acer pseudoplatanus*. – 7.VII.1999, leg. & det. J. HAFELLNER (47187).

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61. *Micarea lignaria* (ACH.) HEDL.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9 km W of Obdach, path from Lindersee to Zirbitzkogel, 50 m S of Lindersee, 47°04'13"N/14°34'11"E, MTB 8953/1, 2100 m alt., steep N-facing slopes with silicate outcrops, on decayed bryophytes and plant debris (at the base of overhanging rock walls). – 22.VIII.1999, leg. & det. W. OBERMAYER (7784).

Note: TLC: Argopsin

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62. *Mycocalicium anomalum* TIBELL - TOPOTYPE

CHILE, Magallanes y Antártica Chilena, Península de Brunswick, 52 km S of Punta Arenas, Fuerte Bulnes, *Nothofagus*-forest, 53°37'S/70°57'W, 100 m alt., on rotten wood. – 5.I.1981, leg. K. KALB (32726), det. L. TIBELL (1998).

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63. *Ochrolechia upsaliensis* (L.) A.MASSAL.

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2900 m alt., on mineral rich soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7862).

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64. *Ochrolechia upsaliensis* (L.) A.MASSAL.

ITALY, Trentino/Alto-Adige, Dolomiten, Hochalpe W of Innerprags, Lapadures Joch, above the huts of Hochalpe, 46°43'N/12°E, 2250 m alt., alpine meadows, on ground. – 13.VII.1998, leg. H. MAYRHOFER (13774) & H. TEPPNER, det. H. MAYRHOFER.

Note: TLC (Kosnik & Mayrhofer): Variolaric acid.

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65. *Omphalina hudsoniana* (JENN.) BIGELOW

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 10,5 km W of Obdach, path from Großer Winterleitensee via Ochsenboden to Kreiskogel, 2000 m alt., 47°05'N/14°33'36"E, MTB 8953/1, on peaty soil and decaying bryophytes on the front of a small boulder. – 24.VIII.1999, leg. & det. W. OBERMAYER (7770).

Note: All specimens with basidiomata.

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66. *Peltigera venosa* (L.) HOFFM.

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Glocknergruppe, Ködnitztal, path from Lucknerhaus to Lucknerhütte, 47°02'10"N/12°41'35"E, MTB 8942/3, 2100 m alt., slope of road in alpine meadows, on soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7863).

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67. *Phaeophyscia orbicularis* (NECK.) MOBERG f. *hueiana* (HARM.) CLAUZADE & CL.ROUX

AUSTRIA, Steiermark (=Styria), Oststeirisches Hügelland, 14 km E of Weiz, 3 km S of Stubenberg am See, parking side of the zoo 'Herberstein', 420 m alt., 47°13'N/15°49'E, MTB 8760/4, on *Malus domestica*. – 3.VIII.1997, leg. & det. W. OBERMAYER (7747).

Note: Forma *hueiana* is characterized by the presence of skyrin (K+ purple) in soralia and medulla.

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68. **Phaeorrhiza nimbosa** (FR.) H.MAYRHOFFER & POELT

RUSSIA, Severnaya Zemlya, N part of Bol'shevik Island, western coast of Akhmatov Bay, 7 km SW of the mouth of Bazovaia River, 100 - 200 m away from the bay coast, flat coastal terrace, 79°04'N/102°45'E, 20 m alt., fine to medium gravel with silt, on soil. – 15.VII.1996, leg. & det. M. ZHURBENKO (96290-2).

Note: TLC: Variolaric acid, unknown yellow pigment, unknown related to variolaric acid (2/4-5/2), fatty acid (5/5-6/5), unknowns (between 4 and 7).

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69. **Phaeorrhiza nimbosa** (FR.) H.MAYRHOFFER & POELT

ITALY, Trentino/Alto-Adige, Dolomiten, Hochalpe W of Innerprags, Lapadures Joch, above the huts of Hochalpe, 46°43'N/12°E, 2250 m alt., alpine meadows, on ground. – 13.VII.1998, leg. H. MAYRHOFFER (13775) & H. TEPPNER, det. H. MAYRHOFFER.

Note: TLC (Kosnik & Mayrhofer): Variolaric acid.

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70. **Physconia grisea** (Lam.) Poelt

ITALY, Toscana, Chianti, 30 km SE of Firenze, San Donato in Poggio, 43°32'N/11°14'E, 400 m alt., roadside close to the cemetery, on *Cupressus sempervirens*. – 30.IV.1999, leg. & det. H. MAYRHOFFER (13888).

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71. **Protoblastenia aurata** POELT & VĚZDA

AUSTRIA, Salzburg, Nördliche Kalkalpen, Hochkönigsmassiv, 13.5 km WSW of Bischofshofen, 4.5 km NE of Dienten, summit-area of Taghaube, 2150 m alt., 47°24'10"N/13°02'50"E, MTB 8544/3, on S-exposed, vertical rocks (limestone). – 4.VIII.1996, leg. & det. H. WITTMANN (s.n.).

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72. Pseudosagedia aenea (WALLR.) HAFELLNER & KALB
[all specimens associated with *Porina leptalea* (DURIEU & MONT.) A.L.SM.]

AUSTRIA, Steiermark (=Styria), Weststeirisches Riedelland, Sulmtal, 7.5 km NE of Eibiswald, 500 m SE of Pöfing, below Trixen, N-facing slope of the river Weiße Sulm, 46°43'30"N/15°19'E, MTB 9257/4, 320 - 380 m alt., on *Acer pseudoplatanus*. – 30.V.1999, leg. W. MAURER, det. W. OBERMAYER.

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73. Ramalina capitata (ACH.) NYL.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9.7 km ESE of Neumarkt, 1.6 km ENE of Tonnerhütte, 0.3 km E of Moar, 47°03'17"N/14°33'05"E, MTB 8953/1, 1820 m alt., alpine meadows with siliceous boulders, on mica slate (bird rock). – 5.IX.1999, leg. & det. W. OBERMAYER (7789).

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74. Ramalina celastri (SPRENG.) KROG & SWINSCOW

BRASIL, Parana, Puerto Guayrá, 24°04'S/54°15'W, open forest, on branches of trees. – 12.V.1956, leg. J.E. MONTES (10141.i.), det. H.S. OSORIO (4364).

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75. Ramalina laevigata FR.

URUGUAY, depto. Rocha, Fortaleza de Santa Teresa, 33°59'S/53°32'W, on rocks. – 20.II.1967, leg. H.S. OSORIO (5695), det. H. KASHIWADANI, 1989.

Note: Locally very common.

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76. Ramalina usnea (L.) HOWE

URUGUAY, depto. Artigas, 132 km WSW of Artigas, Arroyo El Tigre and Rio Uruguay, gallery forest of the Uruguay river, 30°47'S/57°47'W, on shrubs. – 5.XII.1975, leg. & det. H.S. OSORIO (7271).

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77. *Ramalina usnea* (L.) HOWE

URUGUAY, depto. Rocha, 114 km NE of Rocha, Sierra de San Miguel, Cerro de la Guardia Perdida, 33°42'S/53°34'W, on branches of shrubs. – 11.VI.1989, leg. & det. H.S. OSORIO (9182).

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78. *Rhizoplaca melanophthalma* (DC.) LEUCKERT & POELT

SPAIN, Islas Canarias, Tenerife, N-facing slopes of Cañadas-Caldera, N below Degollada de Guajara, 28°13'05"N/16°36'W, 2300 - 2350 m alt., on volcanic boulders. – 15.XII.1998, leg. & det. J. HAFELLNER (46376)

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79. *Rinodina canariensis* MATZER, H.MAYRHOFFER & P.CLERC

SPAIN, Islas Canarias, Tenerife, Teno mountains, NW below the Teno Alto, path down to the north-coast, above Las Casas, E of Punta de Teno, 28°21'05"N/16°54'20"W, 400 m alt., succulent scrub, on volcanic outcrops. – 16.XII.1998, leg. H. MAYRHOFFER (13812) & J. HAFELLNER, det. H. MAYRHOFFER.

Note: TLC: Atranorin, gyrophoric acid, lecanoric acid.

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80. *Rinodina confragosula* (NYL.) MÜLL.ARG.

AUSTRALIA, Tasmania, Fingal Valley, Avoca, W-shore of St. Paul's River, 200 m alt., 41°47'S/147°43'E, on dolerite rocks in open pasture. – 6.VIII.1992, leg. H. MAYRHOFFER (12079) & E. HIERZER, det. H. MAYRHOFFER.

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81. *Rinodina gennarii* BAGL.

NEW ZEALAND, South Island, Marlborough, Kaikoura Peninsula, SE of Kaikoura, W of Whaler's Bay, 42°26'S/173°43'E, on coastal rocks. – 31.VIII.1992, leg. H. MAYRHOFFER (12206) & C.D. MEURK.

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82. Rinodina luridata (KÖRB.) H.MAYRHOFFER, SCHEID. & SHEARD

AUSTRALIA, New South Wales, Googong Dam Foreshore Reserve, 18 km S of Queanbean, Londonbridge, 670 m alt., 35°31'S/149°16'E, on limestone. – 26.VII.1992, leg. H. MAYRHOFFER (11307) & J.A. ELIX, det. H. MAYRHOFFER.

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83. Rinodina murrayii H.MAYRHOFFER

NEW ZEALAND, South Island, Otago, Central-Otago, Old Man Range, Obelisk Range, 18 km SW of Alexandra, 45°19'S/169°12'E, 1670 m alt., on schists. – 3.II.1985, leg. H. MAYRHOFFER (10514), H. HERTEL & P. CHILD, det. H. MAYRHOFFER.

Note: TLC (Wippel): Atranorin, pannarin.

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84. Rinodina murrayii H.MAYRHOFFER

AUSTRALIA, New South Wales, Crookwell, 10 km NW of Crookwell, on the road to Binda, 34°24'S/149°23'E, 830 m alt., along a small creek, on schists. – 25.VII.1992, leg. H. MAYRHOFFER (10997) & E. HIERZER, det. H. MAYRHOFFER.

Note: New to New South Wales; TLC (Wippel 1994): Pannarin.

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

Walter OBERMAYER: **Dupla Graecensia Lichenum (1999)** (in Fritschiana 21)
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85. Rinodina thiomela (NYL.) MÜLL.ARG.

AUSTRALIA, Tasmania, Midland Highway, Dysart, N of Bagdad, 42°35'S/147°13'E, 250 m alt., on sandstone cliffs. – 6.VIII.1992, leg. H. MAYRHOFFER (12070) & E. HIERZER, det. H. MAYRHOFFER.

Note: TLC: Thiomelin, unknown triterpenoid (5-6/5/5-6).

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86. *Rinodina tunicata* H.MAYRHOFER & POELT

GREECE, Crete, Nomós Chaníon, 1 km S of Imbros, road to Hora Sfakion, above the entrance of the gorge Imbros, 35°15'N/24°10'E, 800 m alt., E-exposed calcareous rocks. – 13.V.1997, leg. H. MAYRHOFER (13749) & R. ERTL, det. H. MAYRHOFER.

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87. *Sarcosagium campestre* (FR.) POETSCH & SCHIED.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9 km E of Neumarkt, 1.8 km NE of Tonnerhütte, small path from Siegmundhütte to Kulmer Hütte, walls of a decayed chalet (named "Franzbauer"), 47°04'00"N/14°32'39"E, MTB 8953/1, 1810 m alt., high montane forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on thalli of *Peltigera* and *Cladonia*, and on decayed plants. – 7.IX.1999, leg. W. OBERMAYER (7794), det. J. HAFELLNER.

Note: P.p. associated with *Steinia geophana*.

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88. *Solorina bispora* NYL. ssp. *bispora*

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 11 km SW of Judenburg, Schusterleiten, 47°05'40"N/14°33'20"E, MTB 8953/1, 2000 - 2100 m alt., SE-exposed marble-outcrops, on soil. – 7.VII.1991, leg. & det. W. OBERMAYER (7174).

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89. *Solorina octospora* ARNOLD

AUSTRIA, Tirol, Osttirol, Hohe Tauern National Park, Glocknergruppe, path from Stüdl-Hütte to Fanat Kogel, 47°03'15"N/12°41'E, MTB 8942/1, 2800 - 2850 m alt., on mineral rich soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7861).

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90. *Solorina spongiosa* (ACH.) ANZI

AUSTRIA, Tirol, Osttirol, Hohe Tauern, Glocknergruppe, Ködnitztal, path from Lucknerhaus to Lucknerhütte, 47°02'10"N/12°41'35"E, MTB 8942/3, 2100 m alt., slope of road in alpine meadows, on soil. – 4.IX.1998, leg. & det. W. OBERMAYER (7860).

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91. *Stereocaulon nanodes* TUCK.

AUSTRIA, Salzburg, Hohe Tauern, Granatspitzgruppe, Stubachtal, Einzingerboden, near the drain of the Grünsee, just south of the base station of the cablecar, 1500 m alt., 47°10'20"N/12°37'40"E, MTB 8841/2, subalpine *Picea-abies/Larix-decidua*-forest, on gneissic boulders in a creek bed. – 28.VIII.1996, leg. & det. J. HAFELLNER (47218).

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92. *Teloschistes chrysophthalmus* (L.) Th.FR.

SPAIN, Islas Canarias, Tenerife, Teno-Mountains, W of Teno Alto, 28°20'35"N/16°52'40"W, 700 - 750 m alt., pasture-ground at the ridge, on dead twigs of *Chamaecytisus proliferus*. – 16.XII.1998, leg. & det. J. HAFELLNER (46463)

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93. *Teloschistes flavicans* (SW.) NORMAN

URUGUAY, depto. Rocha, Laguna Castillos and Arroyo Valizas, marginal forest of the Castillos lake, 34°20'S/53°54'W, on *Scutia buxifolia*. – 19.II.1967, leg. & det. H.S. OSORIO (5593 B).

Note: Locally common.

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**94. *Thamnolia vermicularis* (SW.) SCHAER.
var. *vermicularis***

CHINA, Tibet, prov. Xizang, Tibetan Himalaya, Everest E, 12 km ENE of Makalu, Kama Chu, Makalu E Glacier tongue, lateral moraine, 27°56'N/87°13'E, 3830 m alt., upper montane *Larix himalaica* forest on moraine, sandy soil with boulders, on ground. – 26.X.1989, leg. B. DICKORÉ (K-90-10), det. W. OBERMAYER.

Note: TLC: Thamnollic acid, fatty acid (?/1(-2)/1-2). - Thallus-colour with UV₃₆₆: dark red.

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95. *Thrombium epigaeum* (PERS.) WALLR.

AUSTRIA, Kärnten (=Carinthia), Gurktal, 10 km E of Gnesau, 46°47'N/14°02'E, MTB 9250/1, 1000 m alt., slopes of a forest road. – 10.IX.1998, leg. H. MAYRHOFER (13720) & C. ZEINER, det. H. MAYRHOFER.

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96. *Tuckneraria laureri* (KREMP.) RANDLANE & THELL

AUSTRIA, Steiermark (=Styria), Steirisches Randgebirge, Koralpe, 13,5 km W of Deutschlandsberg, along the road from Glashütten to Weinebene, 46°49'50"N/15°02'30"E, MTB 9156/4, 1350 m alt., montane spruce forest with *Picea abies*, *Abies alba*, *Larix decidua*, on *Picea abies*. – 14.VIII.1999, leg. & det. W. OBERMAYER (7762).

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97. *Umbilicaria hirsuta* (SW. ex WESTR.) HOFFM.

AUSTRIA, Steiermark (=Styria), Seetaler Alpen, 9.7 km ESE of Neumarkt, 1.6 km ENE of Tonnerhütte, 0.3 km E of Moar, 47°03'17"N/14°33'05"E, MTB 8953/1, 1820 m alt., alpine meadows with siliceous boulders, on mica slate (bird rock). – 5.IX.1999, leg. & det. W. OBERMAYER (7791).

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98. *Umbilicaria yunnana* (NYL.) HUE

CHINA, Tibet, prov. Xizang, Nyainqêntanglha Shan, 370 km E of Lhasa, near the bend of the river Tsangpo, N-side of the mountain Gyala Peri, between the villages Tongjug and Tangmai, 30°01'N/94°58'E, 2300 - 2400 m alt., deciduous trees along the river, on *Populus/Fraxinus*. – 23.VIII.1994, leg. & det. W. OBERMAYER (7033).

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99. *Usnea densirostra* TAYLOR

URUGUAY, depto. Maldonada, Sierra de las Animas, Cañada de la Barra del Ombú, meadow along the road to the Mirador Nacional, 34°46'S/55°19'W, 50 - 100 m alt., on rocks.. – 3.XII.1967, leg. & det. H.S. OSORIO (5113).

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100. *Xanthoparmelia camtschadalis* (ACH.) HALE

MONGOLIA, Gobi Altai, S-Gobi Aimag, Dzuun Saikhan, Yoliin Am catchment, 43°29'N/104°04'E, 2300 - 2500 m alt., meadow steppe on N-facing slope, little grazed, on soil. – 7.II.1996, leg. G. & S. MIEHE (96-003-20), det. W. OBERMAYER.

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Corrigendum:

Walter OBERMAYER: *Dupla Graecensia Lichenum* (1998) (in Fritschiana 16)
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3. *Chaenothecopsis kalbii* TIBELL & K.RYMAN - PARATYPE [lichenicolous fungus on thallus and apothecia of *Lecanora caesiurubella*]

AUSTRALIA, Queensland, Tandora, about 25 km ENE of Maryborough, 25°27'S/152°52'E, at sea level, on mangroves. – 23.VIII.1986, leg. J. HAFELLNER (17926) & R. ROGERS, det. L. TIBELL.

Note: Paratypes from the same locality have already been issued (sub exsiccata-number 259) by SANTESSON, R. (1998): *Fungi Lichenicoli Exsiccati*. – *Thunbergia* 28: 1 - 19.

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Note: The name of the first author (TIBELL) has erroneously been given in parentheses.

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