

Lichenotheca Graecensis, Fasc. 4 (Nos 61 - 80)

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The fourth fascicle of Lichenotheca Graecensis comprises 20 lichen collections from Austria, Chile, China (Tibet), Costa Rica, Czech Republic, Germany, Portugal, Spain (Canary Islands), and U.S.A. (Arizona). *Dimelaena radiata*, *Ophioparma handelii*, *Rinodina luridescens* and *R. santorinensis* var. *santorinensis* have been subjected to TLC-analyses. *Ophioparma handelii*, hitherto only known from the type-locality in Yunnan (China) and two other localities in Japan has been newly discovered in Tibet (see fig. 1). It is presented as a result of the SINO-GERMAN JOINT EXPEDITION TO SOUTH-EASTERN AND EASTERN TIBET (=PROV. XIZANG, CHINA) 1994.

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The exsiccata Lichenotheca Graecensis is edited in 20 sets and distributed on an exchange basis to the following herbaria and private collections (herbarium abbreviations after Holmgren, P.K., Holm-gren, N.H. & Barnett, L.C. 1990: Index Herbariorum, Part I. The herbaria of the world, Ed. 8. Regnum Vegetabile Vol. 120. New York): ANUC, ASU, B, C, CANL, E, ESS, G, GZU, H, HMAS, LE, M, MAF, MIN, O, TNS, UPS, Dr. K. Kalb, Dr. A. Vězda. -- I wish to thank the following collectors who have contributed material to the fourth fascicle: Angela & Josef Hafellner, Eleonore Hierzer, Nikolaus Hoffmann, Siegfried Huneck, Astrid & Klaus Kalb, Isabel Martínez, Mario Matzer, Helmut Mayrhofer, Brigitte Pelzmann, Johannes Prügger, Roman Türk, Eduard Walcher, Alois Wilfling and Roberto Zorer. Thanks are also due to Gerhard Rambold, Leif Tibell, and Antonin Vězda for their help with determination. The expedition of the author to south-eastern Tibet in 1994 was supported by the 'Fonds zur Förderung der wissenschaftlichen Forschung, Projekt P09663-BIO'.

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61. *Caloplaca sinapisperma* (LAM. & DC.) MAHEU & GILLET

AUSTRIA, Steiermark (=Styria), Eisenerzer Alpen, Reichenstein NW of Trofaiach, between the Krumpalm and the Krumpensee, 47°29' 30"N/14°56'30"E, 1420 m alt., MTB 8552/2, small limestone-boulders in a subalpine pasture, on bryophytes and plant debris.

29.IX.1996

leg. J. HAFELLNER (41007) & I. MARTÍNEZ
det. J. HAFELLNER

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62. *Chaenotheca xyloxena* NÁDV.

CZECH REPUBLIC, East Bohemia, Orlické hory mountains, central part, Podlesí between Orlické Záhoří and Bartošovic v Orlické horach, along the river Divoká Orlice, near the border to Poland, 50°14'N/16°32'45"E, 620 m alt., on a decaying stump of *Fraxinus excelsior*.

19.IV.1996 leg. A. WILFLING (3187), N. HOFFMANN & J. PRÜGGER
 det. A. WILFLING

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63. *Chaenothecopsis pusilla* (ACH.) A. SCHMIDT

AUSTRIA, Steiermark (=Styria), Grazer Bergland, Schöckl-area, Hohenberg W of Rinnegg, SE-facing slopes of the Erharthöhe, 47°09'30"N/15°27'E, 800 - 900 m alt., mixed forest with predominant *Pinus sylvestris*, on stump of *Picea abies*.

25.III.1981 leg./det. J. HAFELLNER (9041) / dubl.det. L TIBELL

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64. *Dimelaena radiata* (TUCK.) MÜLL. ARG.

SPAIN, Islas Canarias, El Hierro, La Dehesa, E above the Montaña de los Charcos, 27°44'40"N/18°08'20"W, 350 m alt., Kleinio-Euphorbietum with single *Juniperus phoenicea*, W-exposed slope, on small lava-boulders. -- Annot.: TLC (Pucher & Mayrhofer): 3-chlorodivarcic acid (=chemotype 1).

6.II.1995 leg. A. & J. HAFELLNER (23979) / det. J. HAFELLNER

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65. *Japewia tornoensis* (NYL.) TØNSBERG

U.S.A., Arizona, Apache Co., Apache National Forest, Mt. Baldy Wilderness, valley of the East Fork of the Little Colorado River, between Phelp's Cabin and the base of cliffs, 33°55'30"N/109°30'30"W, 2800 m alt., mixed conifer forest, on *Pseudotsuga menziesii*.

3.VII.1994 leg./det. J. HAFELLNER (36653)

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66. *Japewia tornoensis* (NYL.) TØNSBERG

AUSTRIA, Salzburg, Lungau, Schladminger Tauern, SW-facing slopes of the Preber, 1 km NW of the Preberhalterhütte, 47°12'30"N/13°51'20"E, 2000 m alt., MTB 8749, on *Larix decidua*.

20.VIII.1996 leg. R. TÜRK (21221) & R. ZORER / det. R. TÜRK

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

AUSTRIA, Niederösterreich (=Lower Austria), Türnitzer Alpen, WSW of St. Ägyd am Neuwalde, junction of the Krumbach valley and the Roßgraben valley, 47°48'N/15°25'E, 860 m alt., MTB 8158/4, on *Acer pseudoplatanus*.

13.IX.1996

leg. E. WALCHER / det. H. MAYRHOFER

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68. *Massalongia carnosa* (DICKS.) KÖRB.

AUSTRIA, Tirol, Osttirol, Riesenferner-Gruppe, Defereggental, Patscher Alm, 46°56'N/12°13'E, 1900 m alt., MTB 9040, on mosses over gneiss (partly inundated).

2.VIII.1993

leg./det. R. TÜRK (17280)

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69. *Mycoporum elabens* FLOT. ex NYL.

AUSTRIA, Oberösterreich (=Upper Austria), Totes Gebirge, 2 km SW of Hinterstoder, valley of the Krumme Steyr, trail to the Polsterlucke, 47°41'30"N/14°08'E, 610 m alt., MTB 8350, on bark of *Picea abies*.

11.X.1996

leg./det. R. TÜRK (21486) / dubl.confirm. A. VĚZDA

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70. *Ophioparma handelii* (Z AHLBR.) PRINTZEN & RAMBOLD

CHINA, Tibet (=Prov. Xizang), Himalaya Range, 230 km ESE of Lhasa, Tsangpo valley, 15 km ESE of the village Xang Xian (=Namshan), canyon of a tributary to the Tsangpo, 28°56'N/93°13'E, 3500 - 3600 m alt., *Rhododendron-Betula-Larix-Abies*-forest, on strongly decayed wood. -- Annot.: TLC: haemoventosin (in the apothecium), siphulin, three aliphatic acids (constipatic acid, protoconstipatic acid, dehydroconstipatic acid). Fig 1 (p. 6) shows the hitherto known localities in Tibet, Yunnan (type-locality of *Lecidea handelii*) and Japan. The taxon recently has been treated by Ch. PRINTZEN & G. RAMBOLD (1996): Two corticolous species of *Ophioparma* (Lecanorales) from East Asia. *Herzogia* 12: 23–29. -- The species is presented as a result of the SINO-GERMAN JOINT EXPEDITION TO SOUTH-EASTERN AND EASTERN TIBET (=PROV. XIZANG, CHINA) 1994.

6.VIII.1994

leg./det. W. OBERMAYER (5135)
 dubl.confirm. G. RAMBOLD

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71. Parmelia submontana NÁDV. ex HALE

AUSTRIA, Niederösterreich (=Lower Austria), Reissalpe SE of Lilienfeld, path from Brennalm to the 'Schutzhaus', 47°57'N/15°39'E, 1200 m alt., MTB 8059, on bark of *Acer pseudoplatanus*. -- Annot.: p.p. intermixed with *Parmelia sulcata*, *P. saxatilis* and *Parmelina pastillifera*.

27.X.1995 leg./det. R. TÜRK (20547)

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72. Phaeophyscia endococcinodes (POELT) ESSL.

COSTA RICA, Prov. San José, slopes of Cerro Buenavista (Muerte), 28 km NE of San Isidro, along the Carretera Interamericana, 9°30'N/83°40'W, 2300 m alt., on *Cupressus spec.*

5.IV.1991 leg. H. MAYRHOFER (12801) & E. HIERZER
 det. H. MAYRHOFER

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73. Psoroma hypnorum (VAHL) GRAY

AUSTRIA, Salzburg, Hohe Tauern, Glockner-Gruppe, N-facing slopes of the Brennkogel, at the Fuscher Lacke, 47°06'40"N/12°50'E, 2265 m alt., MTB 8942/2, on soil over mica-schist.

30.VIII.1996 leg./det. J. HAFELLNER (41006)

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74. Pyrrhospora elabens (FR.) HAFELLNER

AUSTRIA, Kärnten (=Carinthia), Gurktaler Alpen, Nockgebiet, St. Oswald, 46°50'N/13°46'E, 1400 m alt., MTB 9148, on wood of *Larix decidua*.

13.IX.1996 leg./det. R. TÜRK (21312)

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75. Rinodina luridescens (ANZI) ARNOLD

PORTUGAL, Minho, Praia do Bico near Afife, N of Viana do Castelo, southern boundary of the Praia, near the beach, 41°46'N/8°52'W, 5 m alt., on granitic boulders. -- Annot.: *R. luridescens* is one of the most common crustose species on granitic boulders close to the shore in Minho (Northern Portugal). - TLC (Pucher & Mayrhofer): gyrophoric acid, zeorine.

21.VII.1996 leg./det. H. MAYRHOFER (13337)

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76. *Rinodina orculata* POELT & M. STEINER

AUSTRIA, Steiermark (=Styria), Müzsteger Alpen, SSE of Mariazell, Langboden, on the trail from Lechnerbauer to the Tonion-Alm, 47°43'N/15°21'E, 1350 m alt., MTB 8258/3, on *Acer pseudoplatanus* (near the base).

12.IX.1996 leg./det. H. MAYRHOFER (13039)

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77. *Rinodina peloleuca* (NYL.) MÜLL.ARG.

CHILE, Lake District, X Region, Puerto Montt, road along the coast SW of Puerto Montt to Chinquihue, 8 km behind Puerto Montt, 41°28'S/73°00'W, 0 - 2 m alt., on rock boulders at the beach.

27.XI.1994 leg. M. MATZER (1671) & B. PELZMANN / det. M. MATZER

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78. *Rinodina santorinensis* J. STEINER var. *santorinensis*

PORTUGAL, Minho, Forte do Cão (Gelfa), S of Vila Praia de Âncora, near the beach, 41°48'N/8°52'W, 5 m alt., on granitic boulders. --
 Annot.: TLC (Pucher & Mayrhofer): atranorin, pannarin.

23.VII.1996 leg./det. H. MAYRHOFER (13326)

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79. *Scoliciosporum umbrinum* (ACH.) ARNOLD

GERMANY, Sachsen-Anhalt (=Saxony-Anhalt), Mansfelder Bergland, Eisleben, dump on the Hüneburg near Wimmelburg, 51°30'N/ 11°30'E, 200 m alt., on copper-rich schist.

27.V.1996 leg. K. & A. KALB & S. HUNECK / det. K. KALB

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80. *Thelomma mammosum* (HEPP) A. MASSAL.

SPAIN, Islas Canarias, El Hierro, Mirador de Basco (Mirador de El Rincon) W above Sabinosa, 27°45'10"N/18°07'W, 660 m alt., at the upper edge of NW-exposed steep slopes, on small basalt-boulders.

5.II.1995 leg./det. J. HAFELLNER (23978)

