

## Lichenotheca Graecensis, Fasc. 22 (Nos 421–440)

Walter OBERMAYER\*

OBERMAYER Walter 2014: Lichenotheca Graecensis, Fasc. 22 (Nos 421–440). - Fritschiana (Graz) 78: 1–7. - ISSN 1024-0306.

**Abstract:** Fascicle 22 of 'Lichenotheca Graecensis' comprises 20 collections of lichens from the following countries (and administrative subdivisions): Austria (Carinthia; Lower Austria; Salzburg; Styria; Upper Austria), Germany (Bavaria), Slovenia, Spain (Mallorca), and U.S.A. (Alaska). Fruiting material of *Candelaria concolor*, *Candelariella reflexa*, *Lecanora subaurea*, *Parmelina tiliacea*, and *Rhizocarpon ridescens* is distributed. TLC-analyses were carried out for *Lecanora subaurea*, *Lepraria incana*, and *Ophioparma ventosa*.

\*Institut für Pflanzenwissenschaften, NAWI Graz, Karl-Franzens-Universität, Holteigasse 6, 8010 Graz, AUSTRIA  
e-mail: walter.obermayer@uni-graz.at

### Introduction

The exsiccata series 'Lichenotheca Graecensis' is distributed on exchange basis to the following 19 public herbaria and to one private collection (herbarium abbreviations follow <http://sciweb.nybg.org/science2/IndexHerbariorum.asp>): ASU, B, C, CANB, CANL, E, G, GZU, H, HAL, HMAS, LE, M, MAF, MIN, O, PRA, TNS, UPS, Klaus KALB. A text version of 'Lichenotheca Graecensis' can be found under <http://www.uni-graz.at/walter.obermayer/li-grz1.htm>, a pdf-file is stored under <http://www.uni-graz.at/walter.obermayer/lichenotheca-graecensis-22.pdf>. Label texts originally drafted in a local language have been translated into English by the author.

I wish to thank the following lichenologists who have made their lichen material available: Franz BERGER, Josef HAFELLNER, Helmut MAYRHOFER, and Roman TÜRK.

Three lichenicolous fungi (*Tremella cetrariicola* on *Tuckermannopsis chlorophylla*, *Tremella hypogymniae* on *Hypogymnia physodes*, and *Sphaerellothecium minutum* on *Sphaerophorus fragilis*), present on the distributed lichens, have been kindly determined by Josef HAFELLNER.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 421. *Arthonia cinnabarina* (DeCandolle) Wallroth

**AUSTRIA**, Oberösterreich (=Upper Austria), district of Rohrbach, 5.7 km south-southeast of the centre of 'Neustift im Mühlkreis', valley of the rivulet Ranna 600 m north of its mouth into the river Danube (Rannamühl), 48°28'47"N, 013°46'33"E, 295 m above sea level, (grid number 7548/2), on bark of *Fraxinus excelsior* (dead tree because of beetle damage), 5 April 2014, collected and determined by Franz BERGER.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 422. *Candelaria concolor* (Dickson) Arnold [sensu stricto]

**SLOVENIA**, [Primorska], Goriška, Southern Alps, Julian Alps, Koritnica valley, 8.3 km north-northeast of Bovec, near the village Log pod Mangartom, northeast of Spodnji Log, 46°24'10"N, 013°36'10"E, 640 m above sea level, solitary trees (at the roadside), on bark of *Tilia cordata*, 2 July 2003, collected and determined by Helmut MAYRHOFER (20349) Katrin ELLMAIER.

Note: All issued specimens contain fruiting bodies.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 423. *Candelariella reflexa* (Nylander) Lettau

**AUSTRIA**, Steiermark (=Styria), Oststeirisches Riedelland, 9 km NE of the centre of Graz, Schaftal, Hollergraben, 47°06'51"N, 015°32'37"E, 530 m above sea level, (grid number 8859/3), edge of a forest, on stem bark of a dead tree, 20 April 2014, collected and determined by Walter OBERMAYER (13165).

Note: Almost all issued specimens with apothecia (specimen in GZU richly fruiting).

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 424. *Cladonia convoluta* (Lamkey) Anders

**SPAIN**, Mallorca, 12.3 km south-southeast of the centre of Palma de Mallorca, west of Bellavista, 200 m away from the seashore, 39°28'37.12"N, 002°43'39.35"E, 40 m above sea level, garrigue vegetation, on ground, 24 August 2013, collected and determined by Walter OBERMAYER (13319).

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 425. *Lecanora subaurea* Zahlbruckner

**AUSTRIA**, Kärnten (=Carinthia), Central Eastern Alps, southernmost part of Seetaler Alpen, 1 km south of the summit of Hohenwart, above the road to Klippitztörl, 200 m west of 'Seetaler Hütte', 46°56'40"N, 014°41'10"E, 1550 m above sea level, (grid number 9054/3), boulder field with big siliceous rocks (in a clearing of a European spruce forest), on inclined surfaces of an iron rich schist, 22 October 2011, collected by Josef Hafellner (81340), determined by Josef HAFELLNER & Walter OBERMAYER.

Note: All issued specimens richly fruiting. Some thalli with only scanty developed soralia. - TLC (Obermayer; separated specimen in GZU tested): Pannarin, rhizocarpic acid, zeorin, unknown (2/2/(1-)2, similar to porphyrillic acid), unknown fatty acid (3/?/5).

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 426. *Lepraria incana* (Linnaeus) Acharius

**AUSTRIA**, Steiermark (=Styria), Steirisches Randgebirge, Grazer Bergland, 4 km west of the centre of Weiz, gorge of the river Raab ('Raabklamm'), orographically left side of the river, 47°12'51"N, 015°34'02"E, 520–535 m above sea level, (grid number 8759/3), small ridge in a mixed forest with schist outcrops and small boulders of feldspar rich pegmatite, on south-southeast exposed, vertical (or overhanging) rock faces, 5 November 2014, collected by Josef HAFELLNER and Walter OBERMAYER (13257), determined by Walter OBERMAYER.

Note: TLC (specimen in GZU tested): Divaricatic acid, zeorin. All other specimens have been tested with an UV-lamp (whitish fluorescence due to divaricatic acid). In the easternmost parts of the Alps, *Lepraria incana* mostly occurs on vertical (or overhanging) faces of siliceous rocks in rather shady conditions. In contrast to other European regions, the species is very rarely found on bark of trees on which *Lepraria lobificans* and *L. vouauxii* are the most frequent Leprarias, especially close to [or within] settlements.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 427. *Lobaria pulmonaria* (Linnaeus) Hoffmann

**AUSTRIA**, Steiermark (=Styria), Dachstein Mountains (south-facing slopes), 4.5 km north-northeast of the centre of Schladming, 4 km east of the centre of Ramsau, forestry road between the farmsteads Reitbauer and Gabäcker ("Jausenstation Fliegenpilz"), 47°25'40"N, 013°42'27"E, 1000 m above sea level, (grid number 8548/3), mixed forest (with *Picea abies*, *Abies alba*, *Fagus sylvatica*, and *Acer pseudoplatanus*), on bark of *Acer pseudoplatanus* (the relatively young but dead tree was marked to be cut down), 21 February 2013, collected and determined by Walter OBERMAYER (12903).

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

#### 428. *Menegazzia terebrata* (Hoffmann) Abramo Massalongo

**AUSTRIA**, Steiermark (=Styria), Dachstein Mountains (south-facing slopes), 4.4 km northeast of the centre of Schladming, 5 km east of the centre of Ramsau, east-facing slopes of Sattelberg, 640 m south of Lodenwalker, 240 m east of Strimitzen, 47°25'26"N, 013°43'12"E, 980 m above sea level, (grid number 8548/3), forest glade with single tall trees of *Acer pseudoplatanus* and *Fagus sylvatica* (reforestation area with young conifers), on bark of *Acer pseudoplatanus*, 23 February 2013, collected and determined by Walter OBERMAYER (12692).

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

#### 429. *Nephroma arcticum* (Linnaeus) Torsell

**U.S.A.**, Alaska, Matanuska-Susitna Borough, 45 km north of Talkeetna, surroundings of Byers Lake, along the trail at the cascades southeast above the lake, 62°44'45"N, 150°05'00"W, 350 m above sea level, boreal forest with moss-covered boulders of granite (slope exposed to the north), on mossy ground, 25 August 2010, collected by Josef HAFELLNER (80252) and Lucia MUGGIA, determined by Josef HAFELLNER.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

#### 430. *Ophioparma ventosa* (Linnaeus) Norman

**AUSTRIA**, Steiermark (=Styria), Central Eastern Alps, Seetaler Alpen, 12 km southwest of the centre of Judenburg, 2.4 km north of the summit of Zirbitzkogel, northwest facing slopes of Schlosserkogel (south of the lake Großer Winterleitensee), 47°05'15"N, 014°33'45"E, 1930–1950 m above sea level, (grid number 8953/1), boulders and low outcrops of pegmatized garnet mica schist in dwarf-shrub communities near the tree line, on strongly inclined surface of mica schist, 30 November 2014, collected and determined by Walter OBERMAYER (13296).

Note: All exsiccata material comes from many different thalli, which were growing on several small boulders. Thus, different genotypes may be present on each specimen. TLC (specimen in GZU tested): Usnic acid, divaricatic acid, thamnolic acid.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 431. *Oxneria huculica* Sergei Yakovlevich

[Synonym: *Xanthoria fallax*, in the sense of several authors]

**AUSTRIA**, Salzburg, Lungau Region (=Tamsweg district), 2.5 km north-northwest of the centre of Tamsweg, village area of St.Andrä im Lungau, south of Andlwirt, 47°08'49"N, 013°47'37"E, 1048 m above sea level, (grid number 8848/4), on bark of *Acer pseudoplatanus*, 23 September 2013, collected and determined by Roman TÜRK (52442).

Note: Associated lichen: *Candelaria concolor*.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 432. *Parmelina pastillifera* (Harmand) Hale

**AUSTRIA**, Oberösterreich (=Upper Austria), political district Schärding, municipal territory of Engelhartzell, 8.7 km northeast of Kopfing im Innkreis, Kronschnig, 150 meters southwest of the river bank of the river Danube, 48°28'42"N, 013°45'43"E, 330 m above sea level, (grid number 7548/2), on twigs of old fallen *Juglans regia* (shady conditions), 22 February 2014, collected and determined by Franz BERGER.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 433. *Parmelina tiliacea* (Hoffmann) Hale

**SPAIN**, Mallorca, Sierra de Tramontana, along the road from Sóller to Lluc, 4 km west-northwest of Lluc, 39°49'43"N, 002°50'15"E, 590 m above sea level, *Pinus* forest with *Olea europaea*, on stem bark of *Olea europaea*, 23 August 2013, collected and determined by Walter OBERMAYER (12991).

Note: All issued specimens with apothecia. Associated *Parmelina tiliacea* has been separated.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 434. *Pertusaria amara* (Acharius) Nylander

**AUSTRIA**, Steiermark (=Styria), Dachstein Mountains (south-facing slopes), 3.7 km north-northeast of the centre of Schladming, 3.3 km east of the centre of Ramsau, 550 m southwest of the farmstead Reitbauer, 47°25'28"N, 013°41'55"E, 1050 m above sea level, (grid number 8548/3), forest area with *Picea abies*, *Abies alba*, and *Pinus sylvestris*, on bark of *Acer pseudoplatanus*, 21 February 2013, collected and determined by Walter OBERMAYER (12698).

Note: Associated lichens: *Pertusaria albescens* (intermixed in some specimens), *Normandina pulchella*, *Anaptychia ciliaris* (scanty), *Physconia distorta* (scanty); associated liverwort: *Metzgeria temperata*.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 435. *Physcia biziana* (Abramo Massalongo) Zahlbruckner

**AUSTRIA**, Niederösterreich (=Lower Austria), 15 km west of the centre of Bratislava, Bad-Deutsch-Altenburg, spa gardens along the river Danube, 48°08'26"N, 016°54'00"E, 145 m above sea level, (grid number 7867/3), park and avenue trees, on bark of *Aesculus hippocastanum*, 11 October 2014, collected and determined by Franz BERGER.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 436. *Punctelia jeckeri* (Roumeguère) Kalb

**GERMANY**, Bayern (=Bavaria), Schwaben (=Swabia), Alpenvorland, 2.2 km east of the centre of Marktoberdorf, 47°46'51.75"N, 010°38'50.35"E, 770 m above sea level, edge of a forest, on bark of *Picea abies* (west-exposed), 9 August 2014, collected and determined by Walter OBERMAYER (13202).

Note: The specimen in GZU is intermixed with *Parmelia sulcata* and *Parmelina tiliacea*.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 437. *Rhizocarpon ridescens* (Nylander) Zahlbruckner

**AUSTRIA**, Kärnten (=Carinthia), Central Eastern Alps, southernmost part of Seetaler Alpen, 1 km south of the summit of Hohenwart, above the road to Klippitztörl, 200 m west of 'Seetaler Hütte', 46°56'40"N, 014°41'10"E, 1550 m above sea level, (grid number 9054/3), boulder field with big siliceous rocks, on strongly inclined surfaces of an iron rich schist, 22 October 2011, collected and determined by Josef HAFELLNER (81342).

Note: Fertile thalli are present in many issued specimens.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 438. *Sphaerophorus fragilis* (Linnaeus) Person

**AUSTRIA**, Steiermark (=Styria), Central Eastern Alps, Seetaler Alpen, 12 km southwest of the centre of Judenburg, 2.4 km north of the summit of Zirbitzkogel, northwest facing slopes of Schlosserkogel (south of the lake Großer Winterleitensee), 47°05'15"N, 014°33'45"E, 1930-1950 m above sea level, (grid number 8953/1), edge of flat base of a cirque with boulders and low outcrops of pegmatized garnet mica schist in dwarf-shrub communities near the tree line, on horizontal and slightly inclined surfaces of mica schist (partly covered with bryophytes), 30 November 2014, collected and determined by Walter OBERMAYER (13295).

Note: Thalli of the specimen in GZU are partly infected with *Sphaerellothecium minutum*.

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 439. *Thelocarpon laureri* (Flotow) Nylander

**AUSTRIA**, Oberösterreich (=Upper Austria), Schärding District, 5.8 km south-south-east of the centre of Schärding, 4.3 km west of 'Taufkirchen an der Pram', 1 km north-northwest of Allerding, 48°25'20"N, 013°28'54"E, 370 m above sea level, (grid number 7546/4), quarry site, on rough machined wood of *Picea abies*, 30 December 2012, collected and determined by Franz BERGER (27062).

OBERMAYER Walter 2014: *Lichenotheca Graecensis*, Fasc. 22 (Nos 421–440). - Fritschiana 78: 1–7  
Distributed by the *Institut für Pflanzenwissenschaften, Karl-Franzens-Universität, Graz (GZU)*

### 440. *Tuckermannopsis chlorophylla* (Willdenow) Hale

**AUSTRIA**, Steiermark (=Styria), Central Eastern Alps, Seetaler Alpen, 9.7 km west-northwest of the centre of Obdach, 400 northeast below Winterleitenhütte, along the natural toboggan run, 47°05'49"N, 014°34'28"E, 1730 m above sea level, (grid number 8953/1), forest with *Picea abies*, *Larix decidua*, and *Pinus cembra*, on twigs of *Picea abies*, 30 November 2014, collected and determined by Walter OBERMAYER (13297).

Note: Some thalli of specimens in the following twelve herbaria are parasitized by *Tremella cetrariae*: B, C, CANL, E, G, GZU, LE, M, MAF, PRA, UPS, Klaus Kalb). Specimens are partly intermixed with *Bryoria* (different taxa), *Evernia divaricata*, *Hypogymnia physodes* [partly infected with *Tremella hypogymniae*], and *Pseudevernia furfuracea* var. *ceratea*.