

## Selected exsiccates of *Caloplaca*, Fasc. 2 (Nos 26–50)

Jan VONDRÁK\*

VONDRÁK J. 2010: Selected exsiccates of *Caloplaca*, Fasc. 2 (Nos 26–50).  
- Fritschiana (Graz) 67: 1–10. - ISSN 1024-0306.

**Abstract:** Fascicle 2 of '*Selected exsiccates of Caloplaca*' comprises 25 collections of lichens from the following countries: Australia, Austria, Bulgaria, Croatia, Czech Republic, Greece, Hungary, Iran, Romania, Russia, Spain, Turkey, and Ukraine. Isotypes of *Caloplaca communis* and *Caloplaca concreticola* and topotype material of *Caloplaca albopustulata* and *Caloplaca borysthenica* are distributed. All samples were collected and identified by the author.

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### Introduction

The exsiccate collection '*Selected exsiccates of Caloplaca*' is aimed at the distribution of species of the genus *Caloplaca* (Teloschistales, lichenized fungi) from all over the world. Although the modern molecular phylogenetic studies find the genus *Caloplaca* paraphyletic, the classic concept used in most recent checklists is followed here.

'*Selected exsiccates of Caloplaca*' is distributed on exchange basis to the following 15 herbaria and private collections (herbarium abbreviations follow <http://sciweb.nybg.org/science2/IndexHerbariorum.asp>): ASU, B, C, CANB, CBFS, F, GZU, H, HMAS, LE, M, MIN, TNS, UPS, herb. Lendemer. Contributions to this exsiccate are welcome.

Abbreviations of authors of plant names are taken from [http://asaweb.huh.harvard.edu:8080/databases/botanist\\_index.html](http://asaweb.huh.harvard.edu:8080/databases/botanist_index.html). Names of countries and states (or provinces or principal subdivisions) are based upon a list from <http://www.ars-grin.gov/cgi-bin/npgs/html/geolist.pl>.

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## 26. *Caloplaca albopruinosa* (Arnold) H.Olivier (1909)

Bas.: *Pyrenodesmia agardhiana* var. *albopruinosa* Arnold (1860)

**ROMANIA**, Dobruja: Tulcea, Enisala, limestone outcrops 250 m SE of Enisala castle ruin, alt. c. 70 m, 44°52'56.03"N, 28°50'12.41"E.

On limestone outcrops.

Note: Based on ITS sequence data, endolithic members of the *Caloplaca variabilis* group are very similar in morphology and therefore taxonomically difficult to separate. This specimen may be different from *C. albopruinosa* s.str.

3.IV.2008

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## 27. *Caloplaca albopustulata* Khodos. & S.Y.Kondr. (2002)

in KHODOSOVITSEV & al. (2002), Graphis Scripta 13(1): 6  
- topotype -

**UKRAINE**, Crimean Peninsula: Alushta, S slope of Demerji Yayla above Luchistoye, alt. c. 600 m, 44°44'42.56"N, 34°24'27.91"E.

On calcareous conglomerates.

28.V.2007

leg. & det. Alexander Khodosovtsev & Jan Vondrák

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## 28. *Caloplaca ammiospila* (Ach.) H.Olivier (1909)

Bas.: *Lecidea cinereofusca* var. *ammiospila* Ach. (1808)

Syn.: *Caloplaca cinnamomea* (Th.Fr.) H.Olivier (1909)

**ROMANIA**, Retezat Mts: Lupeni, Câmpu lui Neag, Retezatul Mic Mts, limestone outcrops around Mt Piule, alt. 1900–2080 m.

On plant debris.

25.VI.2005

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**29. *Caloplaca borysthenica* Khodos. & S.Y.Kondr. (2006)**

in KONDRATYUK & al. (2006), *Mycologia Balcanica* 3(2–3): 96

- topotype -

**UKRAINE**, Kherson region: Belozerka, close to Shirokaya Balka village, loess gorge to maritime lake Dneprovskiy liman, alt. 10–20 m, 46°34'35"N, 32°11'4"E.

On sun-exposed loess slopes with restricted plant cover.

12.X.2009

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**30. *Caloplaca carphinea* (Fr.) Jatta (1900)**

Bas.: *Parmelia carphinea* Fr. (1831)

**TURKEY**, Sea of Marmara coast: Armutlu, coastal rocks 2.5 km SE of Fıstıklı, 40°28'20.31"N, 28°54'23.93"E.

On quartzite outcrops.

13.IV.2007

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**31. *Caloplaca cerina* (Ehrh. ex Hedw.) Th.Fr. (1861)**

Bas.: *Lichen cerinus* Ehrh. ex Hedw. (1789)

**IRAN**, East Azerbaijan: Hashtpar (Talesh), forest near the road from Asalem to Khalkhal, alt. 1150 m, 37°39'23.88"N, 48°49'10.61"E.

On bark of *Acer*.

Note: *Caloplaca cerina* is a heterogeneous species. This Iranian sample is surprisingly phylogenetically close to some Scandinavian populations (J. Šoun, unpublished data).

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### **32. *Caloplaca cerinelloides* (Erichsen) Poelt (1992)**

Bas.: *Caloplaca pyracea* (Ach.) Th.Fr. var. *cerinelloides* Erichsen (1930)

**AUSTRIA**, Styria: Schladming, Aich, lake Bodensee, at a parking place,  
c. 800 m down stream from the lake, 47°22'52.228"N, 13°49'34.209"E.

On lower eutrophicated spruce twigs.

7.IX.2009

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### **33. *Caloplaca cinnabarina* (Ach.) Zahlbr. (1908)**

Bas.: *Lecanora cinnabarina* Ach. (1810)

**AUSTRALIA**, Queensland: Mt Garnet, Undara Volcanic National Park, at  
central camp, alt. 750 m, 18° 9'39.11"S, 144°37'51.22"E.

On granite outcrops.

31.VIII.2006

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### **34. *Caloplaca communis* Vondrák, Říha, Arup & Søchting (2009)**

in VONDRÁK et al. (2009), *The Lichenologist* 41(6): 591

- isotype -

**BULGARIA**, Black Sea coast: Burgas, Tsarevo, coastal rocks SE of town,  
near small boat-factory, 42°08'49.7"N, 27°52'48.2"E.

On siliceous rock in supralittoral zone.

30.XI.2005

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**35. *Caloplaca concretica* Vondrák & Khodos. (2008)**

in VONDRÁK et al. (2008), *The Lichenologist* 40(2): 98

- isotype -

**UKRAINE**, Kherson region: protected area Askaniya-Nova, c. 4.5 km W of village Zaozerne, bank of Kachovski canal, alt. c. 30 m, 46°35'44.37"N, 33°53'13.21"E.

On concrete panel on canal bank, c. 1 m above water level.

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**36. *Caloplaca crenularia* (With.) J.R.Laundon (1984)**

Bas.: *Lichen crenularius* With. (1801)

**TURKEY**, Marmara Sea coast: Bandırma, coastal rocks near Yenice, 40°22'44.78"N, 28°04'16.09"E.

Saxicolous on schist coastal cliff.

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**37. *Caloplaca ferruginea* (Huds.) Th.Fr. (1861)**

Bas.: *Lichen ferrugineus* Huds. (1762)

**SPAIN**, Andalucía: Tarifa, San Bartolo rocks c. 4 km E of El Santiscal, alt. c. 250 m, 36° 5'7.47"N, 5°42'58.87"W.

On bark of *Eucalyptus*.

29.II.2008

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### **38. *Caloplaca granulosa* (Müll.Arg.) Jatta (1900)**

Bas.: *Amphiloma granulosum* Müll.Arg. (1862)

**ROMANIA**, Dobruja: Tulcea, Enisala, limestone outcrops 250 m SE of Enisala castle ruin, alt. c. 70 m, 44°52'56.03"N, 28°50'12.41"E.

On limestone outcrops.

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### **39. *Caloplaca haematites* (Chaub. ex St.-Amans) Zwackh (1862)**

Bas.: *Lecanora haematites* Chaub. ex St.-Amans (1821)

**GREECE**, Crete: Mires, Kali Limenes, valley c. 3 km W of the village, alt. c. 30 m, 34°55'36"N, 24°46'43"E.

On bark of *Ceratonia siliqua*.

Note: Based on ITS sequence data, *Caloplaca haematites* is a corticolous variant of the saxicolous *C. viridirufa* (Ach.) Zahlbr. (Syn.: *C. aractina* (Fr.) Häyrén).

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### **40. *Caloplaca haematites* (Chaub. ex St.-Amans) Zwackh (1862)**

Bas.: *Lecanora haematites* Chaub. ex St.-Amans (1821)

**GREECE**, Crete: Mires, Kali Limenes, valley c. 3 km W of the village, alt. c. 30 m, 34°55'36"N, 24°46'43"E.

On bark of *Pistacia*.

Note: Based on ITS sequence data, *Caloplaca haematites* is a corticolous variant of the saxicolous *C. viridirufa* (Ach.) Zahlbr. (Syn.: *C. aractina* (Fr.) Häyrén).

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### **41. *Caloplaca haematites* (Chaub. ex St.-Amans) Zwackh (1862)**

Bas.: *Lecanora haematites* Chaub. ex St.-Amans (1821)

**UKRAINE**, Crimean Peninsula: Sevastopol, cape "Mis Aya", submediterranean forest on seaward slope, alt. c. 200 m, 44°25'N, 33°39'E.

On bark of *Pistacia mutica*.

Note: Based on ITS sequence data, *Caloplaca haematites* is a corticolous variant of the saxicolous *C. viridirufa* (Ach.) Zahlbr. (Syn.: *C. aractina* (Fr.) Häyrén).

11.X.2009

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### **42. *Caloplaca isidiigera* Vězda (1979)**

**UKRAINE**, Eastern Carpathians: Svidovets Mts, N slope at bottom of glacial cirque near glacial lake, alt. c. 1300 m, 48°15'41"N, 24°13'22"E.

On sun-exposed base-rich sandstone boulders.

Note: *Caloplaca isidiigera* is a well-defined taxon, clearly distinguished both phenotypically and genotypically from the sorediate/blastidiate *C. chlorina* (Flot.) Sandst.; the concept in the new British flora, where both names are synonymized, is incorrect.

28.VI.2007

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### **43. *Caloplaca limonia* Nimis & Poelt (1994)**

**CZECH REPUBLIC**, Podřipsko: Budyně nad Ohří, Martíněves, alt. 250 m, 50°22'24.411"N, 14°9'8.755"E.

On lime-rich mortar of dust-impregnated old wall.

Note: The identity of the species is confirmed by ITS nrDNA molecular data.

22.VIII.2009

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#### **44. *Caloplaca pollinii* (A.Massal.) Jatta (1900)**

Bas.: *Blastenia pollinii* A.Massal. (1852)

**IRAN**, East Azerbaijan: Hashtpar (Talesh), old orchard in Asalem, alt. c. 40 m, 37°43'04.20"N, 48°57'38.49"E.

On bark of *Cerasus*.

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#### **45. *Caloplaca pyracea* (Ach.) Th.Fr. (1867)**

Bas.: *Parmelia cerina* var. *pyracea* Ach. (1803)

**AUSTRIA**, Styria: Leoben, Proleb, Grillbichler Alm c. 2 km NW of the village, alt. 800 m, 47°24'30"N, 15°06'40"E

On bark of *Populus tremula*.

25.7.2004

leg. & det. Jan Vondrák

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#### **46. *Caloplaca pyracea* (Ach.) Th.Fr. (1867)**

Bas.: *Parmelia cerina* var. *pyracea* Ach. (1803)

**HUNGARY**, Bükk Mts: Borsod-Abaúj-Zemplén county, Mályinka, Látó-kövek rock, alt. c. 730 m, 48°07'28.7"N, 20°31'37.3"E.

On shaded limestone outcrop.

Note: Saxicolous occurrences are exceptional in this species.

2.VI.2008

leg. Jan Vondrák & Alexander Khodosovtsev  
det. Jan Vondrák



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### **47. *Caloplaca scythica* Khodos. & Søchting (1998)**

**RUSSIA**, Taman Peninsula: salt marsh SW of Primorskiy near Taman' Bay coast, 45°15'16.05"N, 36°53'40.46"E

On *Halocnemum strobilaceum*.

Note: Based on ITS sequence data, *Caloplaca scythica* is conspecific with *C. phlogina*. However, the name "*C. scythica*" can be used for populations with whitish soralia which lack anthraquinone, occurring in salt marshes along the northern Black Sea coast.

20.V.2007

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### **48. *Caloplaca teicholyta* (Ach.) J.Steiner (1895)**

Bas.: *Lecanora teicholyta* Ach. (1810)

**UKRAINE**, Crimean Peninsula: Yalta, Oliva village, Efigenia coastal cliff, 44°24'16"N, 33°53'4"E.

On ultrabasic diorite rock.

Note: A richly fertile specimen, but ascospores in apothecia poorly developed.

30.VI.2009

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det. Jan Vondrák

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### **49. *Caloplaca ulcerosa* Coppins & P.James (1979)**

**CROATIA**, Istria: Poreč, Špadići, at sea coast, 45°14'59"N, 13°35' 27.04"E.

On bark of *Carpinus betulus*.

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**50. *Caloplaca variabilis* (Pers.) Müll.Arg. (1862)**

Bas.: *Lichen variabilis* Pers. (1794)

**UKRAINE**, Kherson region: Berislav, Burgunka, shallow valley "Burgunskaya Balka", alt. 20–40 m, 46°48'30.37"N, 33°13'10.01"E.

On limestone outcrops.

Note: Based on ITS sequence data, *Caloplaca variabilis* in a recent sense is a complex of phenotypically similar species. This specimen may be different from *C. variabilis* s.str.

16.VI.2008

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