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# Lichenes selecti exsiccati ex Herbario Universitatis Halensis – nos. 11–20

Regine STORDEUR

**Abstract:** STORDEUR, R. 2007: Lichenes selecti exsiccati ex Herbario Universitatis Halensis – nos. 11–20. Schlechtendalia **16**: 93–97.

The second issue of 'Lichens selecti exsiccati ex Herbario Universitatis Halensis' containing nos. 11–20 is presented. All collections are from copper schist dumps of the 'Mansfelder Mulde' area (Saxony-Anhalt).

**Zusammenfassung:** STORDEUR, R. 2007: Lichenes selecti exsiccati ex Herbario Universitatis Halensis – Nr. 11–20. Schlechtendalia **16**: 93–97.

Mit den vorliegenden Nummern 11–20 wird die 2. Ausgabe von 'Lichenes selecti exsiccati ex Herbario Universitatis Halensis' vorgelegt. Die Belege stammen alle von Kupferschieferhalden der Mansfelder Mulde (Sachsen-Anhalt).

**Key words:** HAL, exsiccata, lichens, copper schist.

The second series of 'Lichenes selecti exsiccati' exclusively comprises lichens collected from copper schist, including various characteristic heavy metal lichens as well as some species with a wider ecological amplitude which may also occur on other rocks.

The beginning of the copper schist mining in the area around the town Mansfeld ('Mansfelder Revier') dates back to about the year 1200. The dumps used as sources for lichen exsiccata are, however, much younger, i.e., the oblong 'Zirkelschachthalde' near the town Klostermansfeld, raised up between 1895 and 1927, and the large trapezoidal dump of the 'Eduard shaft' south of the town Hettstedt, used between 1864 and 1910. Beside some gypsum, the two locations are characterised by being composed of copper schist, partly with considerable amounts of metals (copper, ferrum, manganese, molybdenum, nickel, lead, titanium, zinc and other metals usually occurring as sulphides), as well as Permian lime-stone, a relatively solid stone containing lime.

For the present issue of this exsiccata only lichens directly growing on copper schist have been collected, although a certain influence of lime cannot be excluded due to the edulcoration of particular components of decaying Permian lime-stone.

The area 'Mansfelder Mulde' is located at the rain protected side of the Harz Mountains characterised by a low precipitation between 480 and 500 mm. The average temperature per year is 8.6 °C, with maximums of 15 to 17 °C in July and minimums of 0 to –2 °C in January.

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### 11. **Acarospora peliscypha** Th. Fr.

Nova Acta Regiae Soc. Sci. Upsal., Ser. 3., 3: 189 (1861).

GERMANY, Saxony-Anhalt, NNW Lutherstadt-Eisleben, S Thondorf, copper schist damp of the 'Zirkelschacht', ordnance map 4435/114, 51°34'36"–52"N/11°31'40"–49"E, alt. c. 220–255 m, on copper schist.

12 Nov. 2003 leg. M. Beckmann & R. Stordeur
det. R. Stordeur

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### 12. **Acarospora smaragdula** (Wahlenb.) A. Massal.

Ric. auton. lich. crost.: 29 (1852).

GERMANY, Saxony-Anhalt, NNW Lutherstadt-Eisleben, S Thondorf, copper schist damp of the 'Zirkelschacht', ordnance map 4435/114, 51°34'36"–52"N/11°31'40"–49"E, alt. c. 220–255 m, on copper schist.

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### 13. **Buellia aethalea** (Ach.) Th. Fr.

Lichenogr. scand. 2: 604 (1874).

GERMANY, Saxony-Anhalt, NNW Lutherstadt-Eisleben, S Thondorf, copper schist damp of the 'Zirkelschacht', ordnance map 4435/114, 51°34'36"–52"N/11°31'40"–49"E, alt. c. 220–255 m, on copper schist.

5 June 2007 leg. E. Eisenhuth & R. Stordeur
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### 14. **Candelariella vitellina** (Hoffm.) Müll. Arg.

Bull. Herb. Boissier 2: 11, 47 (1894).

GERMANY, Saxony-Anhalt, large copper schist dump of the 'Eduard' shaft Hettstedt, ordnance map 4435/114, 51°37'17"–31"N/11°31'02"–28"E, alt. 200–222 m, on copper schist.

15 Nov. 2006 leg. M. Schönbrodt & R. Stordeur
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### 15. **Lecanora muralis** (Schreb.) Rabenh.

Deutschl. Krypt.-Fl. 2: 42 (1845).

GERMANY, Saxony-Anhalt, large copper schist dump of the 'Eduard' shaft Hettstedt, ordnance map 4435/114, 51°37'17"–31"N/11°31'02"–28"E, alt. 200–222 m, on copper schist.

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### 16. **Lecanora stenotropa** Nyl.

Flora 55: 251 (1872).

GERMANY, Saxony-Anhalt, NNW Lutherstadt-Eisleben, S Thondorf, copper schist damp of the 'Zirkelschacht', ordnance map 4435/114, 51°34'36"–52"N/11°31'40"–49"E, alt. c. 220–255 m, on copper schist.

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### 17. **Lecidea fuscoatra** (L.) Ach.

Methodus, Sectio prior.: 44 (1803).

GERMANY, Saxony-Anhalt, NNW Lutherstadt-Eisleben, S Thondorf, copper schist damp of the 'Zirkelschacht', ordnance map 4435/114, 51°34'36"–52"N/11°31'40"–49"E, alt. c. 220–255 m, on copper schist.

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### 18. **Lecidea inops** Th. Fr.

Lichenogr. scand. 2: 501 (1874).

GERMANY, Saxony-Anhalt, large copper schist dump of the 'Eduard' shaft Hettstedt, ordnance map 4435/114, 51°37'17"–31"N/11°31'02"–28"E, alt. 200–222 m, on copper schist.

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### 19. **Scoliciosporum umbrinum** (Ach.) Arnold

Flora 54: 50 (1871).

GERMANY, Saxony-Anhalt, NNW Lutherstadt-Eisleben, S Thondorf, copper schist damp of the 'Zirkelschacht', ordnance map 4435/114, 51°34'36"–52"N/11°31'40"–49"E, alt. c. 220–255 m, on copper schist.

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### 20. **Stereocaulon nanodes** Tuck.

Amer. J. Arts Sci., Ser. 2, 18: 201 (1859).

GERMANY, Saxony-Anhalt, large copper schist dump of the 'Eduard' shaft Hettstedt, ordnance map 4435/114, 51°37'17"–31"N/11°31'02"–28"E, alt. 200–222 m, on copper schist.

15 Nov. 2006 leg. M. Schönbrodt & R. Stordeur
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