

MEDDELELSER OM GRØNLAND

UDGIVNE AF

KOMMISSIONEN FOR VIDENSKABELIGE UNDERSØGELSER I GRØNLAND

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THE SCORESBY SOUND COMMITTEE'S 2ND EAST GREENLAND
EXPEDITION IN 1932 TO KING CHRISTIAN IX.s LAND

LEADER: EINAR MIKKELSEN

MICROMYCETES

BY

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BIANCO LUNOS BOGTRYKKERI A/S

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During the Scoresby Sound Committee's 2nd East Greenland Expedition in 1932 to King Christian IX's Land, under the command of Capt. Einar Mikkelsen, the Danish botanist Mr. Tyge Wittrock Bøcker collected some *Micromycetes*, which he entrusted to me for determination.

1. *Leptosphaeria culmifraga* (Fries) Ces., *Poa glauca*, Cape Johnstrup.
2. *Leptosphaeria silenae acaulis* de Not., *Stellaria longipes*, Cape Dalton 69°25'.
3. *Clathrospora elynae* Rabh., *Carex scirpoidea*, d'Aunay Bay.
4. *Pleospora Karstenii* Berlese, *Poa alpina*, Cape Ravn, 68°31'.
5. *Pleospora scrophulariae* (Desm.) Høhnelt, *Papaver radicans*, Cape Barclay, 69°15'.
6. *Pleospora Wulfii* Lind 1928, *Stellaria longipes*, Cape Dalton, 69°25'.
7. *Pyrenophora chrysospora* (Niessl) Sacc., *Draba crassifolia*, Miki Fjord, 68°10'. *Viscaria alpina*, Cape Daussy, 68°43'.
8. *Mycosphaerella pusilla* (Aud.) Johans., *Carex scirpoidea*, d'Aunay Bay.
9. *Mycosphaerella Tassiana* (de Not.) Johans., *Carex scirpoidea*, Cape Ravn. *Calamagrostis neglecta*, Angmagssalik. *Poa alpina*, Cape Ravn, 68°31'. *Draba daurica*, Cape Dalton 69°25'. *Ranunculus sulphureus*, Cape Dalton. *Thalictrum alpinum*, Cape Dalton. *Stellaria longipes*, Cape Dalton. *Viscaria alpina*, Cape Daussy. *Epilobium latifolium*, Barclay Bay, 69°15'.
10. *Venturia myrtilli* Cooke, *Vaccinium uliginosum*, Cape Ravn.
11. *Massaria macrotheca* (Rostrup) Lind, *Trisetum spicatum*, Cape Dalton.
12. *Dothidella adusta* (Fuckel) Lind 1924, Syn: *Asterella chamaenerii* Rostrup. *Epilobium latifolium*, Kangerdlugssuak and Barclay Bay.
13. *Lophodermium arundinaceum* (Fries) Chev., *Calamagrostis neglecta*, Angmagssalik. *Festuca ovina*, Kangerdlugssuak 68°. *Poa arctica*, Miki Fjord 68°10'. *Trisetum spicatum*, Cape Dalton, 69°25'.
14. *Rhytisma salicinum* Fries, *Salix arctophila* × *glauca*, Kangerdlugssuak.

15. *Belonopsis graminea* (Karsten) Sacc., *Luzula spicata*, Cape Daussy, 68°43'. *Phleum alpinum*, Cape Ravn, 68°31'.
16. *Naevia stellariae* (Rostrup) Lind 1928, Syn: *Trochila stell.* Rostrup, *Stellaria longipes*, Cape Dalton, 69°25'.
17. *Hysteropezizella ignobilis* (Karsten), *Carex scirpoidea*, d'Aunay Bay. *Calamagrostis neglecta*, Angmagssalik. *Poa alpina*, Cape Ravn, 68°31'. *Poa glauca*, Cape Johnstrup, 68°32'.
18. *Hysteropezizella diminuens* (Karsten) Nannf. 1932, Syn: *Stegia subvelata* Rehm var. *Winteri*, *Carex rigida*, Angmagssalik.
19. *Pyrenopeziza drabae* Nannf. 1928, *Draba crassifolia*, Miki Fjord, 68°10'.
20. *Uromyces alchimillae* (Pers.) Wt., *Alchimilla glomerulans*, Miki Fjord, 68°10' and Ravn Fjord, 68°31'.
21. *Puccinia taraxaci* Plowr., *Taraxacum croceum*, Ravn Fjord, 68°33'.
22. *Melampsora arctica* Rostrup, *Salix arctica* × *arctophila* × *glauca*, Cape Dalton, 69°25'.
23. *Ustilago vinosa* (Berk) Tul., *Oxyria digyna*, Kangerdlugssuak, 68°15' to 68°20', and Miki Fjord 68°10'.
24. *Cintractia caricis* (Pers.) Magn., *Carex rigida*, Angmagssalik.
25. *Exobasidium vaccinii uliginosi* Boud., *Vaccinium uliginosum*, Cape Ravn 66°20'.
26. *Phoma herbarum* West., *Arabis alpina*, Kangerdlugssuak 68°.
27. *Leptothyrium crastophilum* Bomm., Rouss., Sacc., *Poa glauca*, Kangerdlugssuak and Cape Johnstrup 68°.
28. *Leptothyrium macrothecium* Fuckel, *Alchimilla alpina*, Cape Ravn 68°31'.
29. *Heteropatella umbilicata* (Fries) Jaap., Syn: *Septoria cerosperma* Rostrup, Cape Daussy 68°43'.

Our knowledge of the micromycetes of East Greenland is fairly thorough, as it is based upon investigations made by Jens Vahl, who visited these parts as early as in the years 1828—36, by Zweite Deutsche Polarexpedition in 1869—70, by N. Knutsen in 1883—85, by Nic. Hartz and E. Bay in 1894, by the Duke of Orleans in 1905, and finally, the most northerly part of East Greenland, by the Danmark Expedition in 1905—08. Consequently, it was not to be expected that the expedition of 1932 should find anything new and surprising, but nevertheless the material collected by it comprises two species which are included in the list given above and have not previously been found in Greenland viz :

Pleospora Wulfii, a beautiful and easily recognizable species, which I have formerly seen from Spitzbergen and from Jugor Strait, and

Pyrenopeziza drabae, which has been described by Nannfeldt from the northernmost part of Scandinavia, and which I have seen from Spitzbergen.

Of particular interest was further the fact of *Uromyces Alchimillae* having been found so far north. It is very common all over Europe and Asia Minor, in the lowlands no less than in the highest mountains; in West Greenland it flourishes on Disko (lat. 70° N.); on the east coast it was until 1932 only recorded from Kangerdlulak and Ujaragsarsuk in the southern part (Vahl) as well as from Tunok, Kakasuak and Tasiusarsik lat. 65°47'—65°53' (C. Kruuse), but never so far north as Wildemann's Fjord in lat. 68°31'. On the American Continent it does not occur, and there the host-plant itself is also very rare.

In the course of his collections Tyge W. Böcher made an extremely interesting discovery, viz. that *Ustilago vinosa*, which is of common occurrence in the region round Kangerdlugssuak, was undoubtedly used for certain practical purposes by the Eskimos. In the ruins of an Eskimo dwelling a small skin bag was found, containing the purple brown powder of such spores of the said *Ustilago*. Nothing can be known for certain as to the use to which the Eskimos have put this spore powder; they possibly used it as dye-stuff, possibly like the spores of the puff-ball which is used as a styptic, or like the ergot which is used as an *contractivum uteri*.
