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The lichens and lichenicolous fungi of South Greenland

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Abstract: This list enumerates all lichenized and lichenicolous fungi known from the west coast of South Greenland between 60°10'N and 61°20'N. 744 lichen species and infraspecific taxa, 156 lichenicolous and six allied fungi are treated. New to Greenland are: *Absconditella trivialis*, *Acarospora complanata*, *A. wahlenbergii*, *Agonimia gelatinosa*, *Anema nummularium*, *Arthonia nephromiaria*, *Arthrorhaphis aeruginosa*, *A. olivaceae*, *Bacidia beckhausii*, *Bellemerea diamarta*, *Biatora pullata*, *Botryolepraria lesdainii*, *Buellia arnoldii*, *B. erubescens*, *B. ocellata*, *B. thiopoliza*, *Caloplaca citrina*, *Cercidospora verrucosaria*, *Cliostomum pallens*, *Clypeococcum cetrariae*, *Dactylospora deminuta*, *Endococcus verrucisporus*, *E. verrucosus*, *Epibryon conductrix*, *Epicladonia simplex*, *Fuscidea mollis* var. *caesioalbescens*, *Hypogymnia vittata*, *Lecanora aitema*, *L. cadubriae*, *L.campestris*, *L. carpoides*, *L. subaurea*, *Lecidea turgidula*, *Lecidella anomaloides*, *Lepraria eburnea* chemotype II, *L. rigidula*, *Leucocarpia dictyospora*, *Lichenoconium edgewoodensis*, *L. pyxidatae*, *Lichenostigma arctoparmeliae*, *Merismatium decolorans*, *Micarea prasina*, *Muellerella ventosicola*, *Mycobilimbia epixanthoides*, *Mycoblastus fucatus*, *Nigropuncta rugulosa*, *Pertusaria corallina*, *Phacopsis doerfeltii*, *P. huuskonenii*, *Phoma cladoniicola*, *Placynthiella dasaea*, *Polyblastia inumbrata*, *Porpidia superba*, *Protoblastenia rupestris* ssp. *rhodothecia*, *Protoparmelia leproloma*, *Pyrrhospora rubiginans*, *Rhagadostoma brevisporum*, *Rhizocarpon lindsayanum*, *R. roridulum*, *Rhizoplaca glaucophana*, *Rimularia fuscosora*, *Rinodina gennarii*, *R. septentrionalis*, *Sagediopsis aquatica*, *Sarcopyrenia gibba*, *Sphaerellothecium atryneae*, S. *stereocaulorum*, *Squamarina nivalis*, *Stereocaulon pileatum*, *S. subcoralloides*, *Stigmidium joergensenii*, *S. mitchelii*, *S. mycobilimbiae*, *S. pumilum*, *Taeniolella verrucosa*, *Thelidium zwackhii*, *Thelocarpon impressellum*, *Thrombium basalticum*, *Toninia ruginosa*, *Trapelia involuta*, *Xylographa trunciseda*, *X. vitilago*, *Zwackhiomyces coepulonus*, and *Z. lacustris*. Further 77 species of lichens and 57 species of lichenicolous fungi are new to the area. The new combination *Naetrocymbe kentrospora* is proposed.

Kokkuvõte: Lõuna-Gröönimaa lihheniseerunud ja lihhenikoolsed seened

Esitatakse Lõuna-Gröönimaa lääneranniku (piirkond 60°10'N ja 61°20'N vahel) lihheniseerunud ja lihhenikoolsete seente liikide nimekiri, mis sisaldab 744 lihheniseerunud seene liiki ja liigisisest taksonit ning 156 lihhenikoolset ja kuus mittelihheniseerunud seent. Loetletud taksonite hulgas on 84 liiki ja liigisisest taksonit, mis on uued Gröönimaale; 77 lihheniseerunud ja 57 lihhenikoolse seene liiki mainitakse esmakordselt Lõuna-Gröönimaalt. Pakutakse välja uus kombinatsioon *Naetrocymbe kentrospora.*

INTRODUCTION

Greenland (Kalaallit Nunaat) is situated between 59°46'N and 83°39'N, and c. 11° and 74°W. The total area is 2.175.600 km^2 of which 341.700 km^2 is free from permanent ice. The distance from south to north is 2670 km and from east to west 1050 km. The inland-ice covers 84% of the total area, and it is more than three km thick in the central part. The biggest ice-free areas are in the north- and northeast parts of the country, with other big areas in central west Greenland, and a substantial part also in the south, the target area of the present paper. The precipitation is highest in the south with more than 3000 mm/year, and only about 30 mm in the driest parts in the north. Mean temperatures in July vary between above 10°C in the warm-

est parts of the south and 2C° in the coldest parts of the north. There are seven species of land-mammals in Greenland, but no reptiles or amphibians. The total population of Greenland is c. 50.000 persons of which c. 40.000 are Inuits, a mixture of Eskimos and Europeans. The economy is mainly based on fishing industry, with pastoralism (sheep, reindeer) being found in the southwestern part, and hunting in the northern areas.

Agriculture is restricted to the inland area and is almost exclusively restricted to production of grass for winter fodder for the sheep.

The geology of the study area is very complex with a variety of gneisses, granites, syenites, basalt, sandstones, limestones, and the special rocks of the Gardar-intrusion which contain high concentrations of a number of heavy metals and rare earth elements. The inland is dominated by high mountains dissected by valleys, while the coastal area is relatively flat and dissected by fiords. The climatic variation is also considerable with the protected inland localities having temperatures reaching above 10°C in July, which is enough for tree growth. The most important trees are *Betula pubescens* Erhr., *B. glandulosa* Michx., *Salix glauca* L. coll., and *Juniperus communis* L. ssp. *nana* Syme. *Sorbus groenlandica* (Schneid.) Löve & Löve, and *Alnus crispa* (Ait.) Pursh are found in some places. The moister and cooler coastal areas are free of tree growth but covered with different types of heathland, low scrubs, and moors (Böcher, 1975).

The study area is approximately 3000 km², but almost half of it is sea, and other areas are inaccessible by foot. Roads are virtually absent outside settlements, and collections can only be made on daytrips by feet and boat, which means that many areas have never been visited by lichenologists. Therefore there is reason to believe, that many more species could be found in the area.

Branth (1887) published the first (and so far the only) lichen flora of the entire Greenland, with much information on South Greenland. The macrolichen flora of the area is quite well known especially due to studies by Eilif Dahl (Dahl, 1950). Dahl also collected microlichens but they have been worked up to a limited degree only, and have not been published before. Also Kjeld Hansen (K. Hansen, 1971) collected macrolichens in the area. Eric Steen Hansen (E. S. Hansen, 1978) made a comparative study of lichens on costal and inland localities of the area and also made several floristic papers in different parts of Greenland. Together with Pipaluk Lund he studied a grazing area for reindeer (E. S. Hansen & Lund 2003). Vagn Alstrup collected lichens in the Ilímaussaq-intrusion in the central part of the area in 1978 and 1980 and published some floristic contributions. Svanhildur Svane collected in the area in 1982, and some of her collections are reported by E. S. Hansen (2006a, 2006b).

In 2005 the Nordic Lichen Society (NLS) held an excursion in the interior area around Narsarsuaq, with a postexcursion to a more coastal area. The area is probably the richest in lichens in Greenland due to the big climatic and geological variation, and because only here a rather well-developed epiphytic lichen flora is present.

The panarctic lichen checklist (Kristinsson et al., 2006) divides Greenland into three regions. The present area is in the southern part of West Greenland, WG. Species reported new to the area (*) may be found in other areas of WG.

MATERIALS AND METHODS

The following list is based on the earlier publications and on observations and collections made mainly in connection with the NLS meeting in 2005. Furthermore, the list is supplemented with parts of Eilif Dahl´s collections, which have been identified by the first author. The not identified yet part of Dahl´s collections is supposed to include common species in the genera *Acarospora*, *Aspicilia*, *Buellia*, *Lecidea*, *Lecidella*, *Porpidia* and *Rhizocarpon*. In addition, some interesting but unpublished finds from the material which had been collected by Vagn Alstrup in 1978 and 1980 (especially saxicolous taxa of the Ilímaussaq-intrusion in the central part of the study area) are also included here. In the species list references to earlier reports are only cited for rarer species; for that reason the following papers containing information on lichens in the area are not otherwise cited: Ahti & Hyvönen, 1985; Czeczuga & Alstrup, 1987; E. S. Hansen, 1975, 1984; Kärnefelt, 1979, 1986.

The localities

For location of collecting sites, see the map (Fig. 1). Geology according to Escher & Pulvertaft (1995). The localities which were visited in connection with the NLS meeting in 2005.

1. Itilleq-Igaliko, 60°59'–61°02'N, 45° 25–27'W, 0–150 m, gneiss and sandstone. 21. and 31.07.2005.
2. Narsarsuaq, harbour to Hospitalsdal, 61°08–10'N, 45°24–27'W, 0–50 m, alluvial deposits, basalt. 20.–29.07.2005.
3. Qagssiarsuk, 61°08'–10'N, 45°32–35'W, 0–250 m, ultrabasics, sandstone, rapakivi granite and carbonatite. 23.07.2005.
4. Narsarsuaq, Blomsterdalen to glacier, 61°10–12'N, 45°21–24'W, 0–350 m, alluvial deposits, rapakivi granite. 24.07.2005.
5. Narsarsuaq, Sutuluaqqap qaqqaa, 61°07–09'N, 45°24–26'W, 50–400 m, syenite, sandstone and basalt. 25.07.2005.
6. Head of Tunugdliarfik Fjord, Qanassissat to Qingua, 61°12–14'N, 45°30–31'W, 0–100 m, rapakivi granite. 26.07.2005.
7. Narsaq, S of town, 60°54–55'N, 46°02–03'W, 0–50 m, sandstone, supracrustals. 29.07.2005.
8. Qingartup nuna, 60°43'N, 46°41'W, 0–50 m, rapakivi granite. 30.07.2005.
9. Akudlit nunat, 61°03'N, 46°30'W, 0–100 m, ultrabasic rocks. 30.07.2005.
10. Tugtutooq, Sildefjord, 60°51–52'N, 46°23–27'W, 0–350 m, syenite, rapakivi granite, basalt and alluvial deposits. 30.07.–03.08.2005.
11. Tugtutooq, Blå Månesø, 60°51–52'N, 46°21–23'W, 250–350 m, quartz syenite. 02.03.2005.
12. Narsaq, Kvanefjeld, 60°68'N, 46°01–03'W, 450–850 m, black lujavrite, syenite and basalt. 04.08.2005.

Eilif Dahl´s 1937 localities mentioned (except those which were also visited by the NLS excursion).

13. Borgshavn, 60°58'N, 48°16'W, rapakivi granite.
14. Eqalugarsuit, 60°27'N, 46°9'W, rapakivi granite.
15. Eqaluit, 60°46'N, 45°33'W, rapakivi granite.
16. Isaromiut, 61°10'N, 45°42'W, rapakivi granite.
17. Julianehåb, 60°43'N, 46°7'W, rapakivi granite.
18. Kuunait, 61°14'N, 48° 28'W, gneiss.
19. Qaqortooq, 60°48'N, 45°50'W, rapakivi granite.
20. Qissungadalen, 60°57'N, 46°6'W, alluvial deposits.
21. Qordlortooq, 61°12'N, 45°34'W, rapakivi granite.
22. Sletten, 60°36'N, 45°22'W, rapakivi granite.
23. Tasiussaq, 61°9'N, 45°40'W, rapakivi granite.
24. Tunuarmiut, 60°58'N, 45°48'W, sandstone and basalt.
25. Uperniviarsuk, 60°47'N, 45°57'W, rapakivi granite.
26. Kiagtuut, from sea to the inland ice, 61°11'N, 45°27'W, rapakivi granite.
27. Igdlerfissalik, 61°4'N, 45°22'W, gardar-intrusion complex.
28. Ivigtut, 61°11'N, 48°15'W, sandstone, basalt, gardar intrusion complex.
29. Josvaminen, 60°52'N, 48°10'W, supracrustal, gardar intrusion complex, rapakivi granite.
30. Qagssimiut, 60°46'N, 47° 8'W, rapakivi granite, intermediate intrusion.
31. Qagdlumiut, 60°43'N, 45°18'W, rapakivi granite.
32. Itivdlerssuaq, 60°35'N, 44°45'W, rapakivi granite.
33. Narsaq Fjeld, 60°55'N, 46°0'W, alt. 700 m, Gardar intrusion complex.
34. Bjørnedalen, 61°19'N, 48°11'W, gneiss.
35. Sigssardlugtoq, 60°55'N, 45°28'W, rapakivi granite.
36. Sardloq, c. 60°34'N, 46°4'W, rapakivi granite, gneiss (not mentioned in Dahl´s locality list, but some collections are marked 'Sardloq').
37. Upernivik, 60°35'N, 46°2'W, (not on geological map).
38. Qordlortorssuaq, 60°45'N, 45°10'W, rapakivi granite.

V. Alstrup's localities 1978 and 1980.

39. Kangerdluarssuk, 60°50–53'N, 46°00–03'W, naujaite and kakortokit.
40. Pointen, 60°54'N, 46°02'W, gabbro-anorthosite.

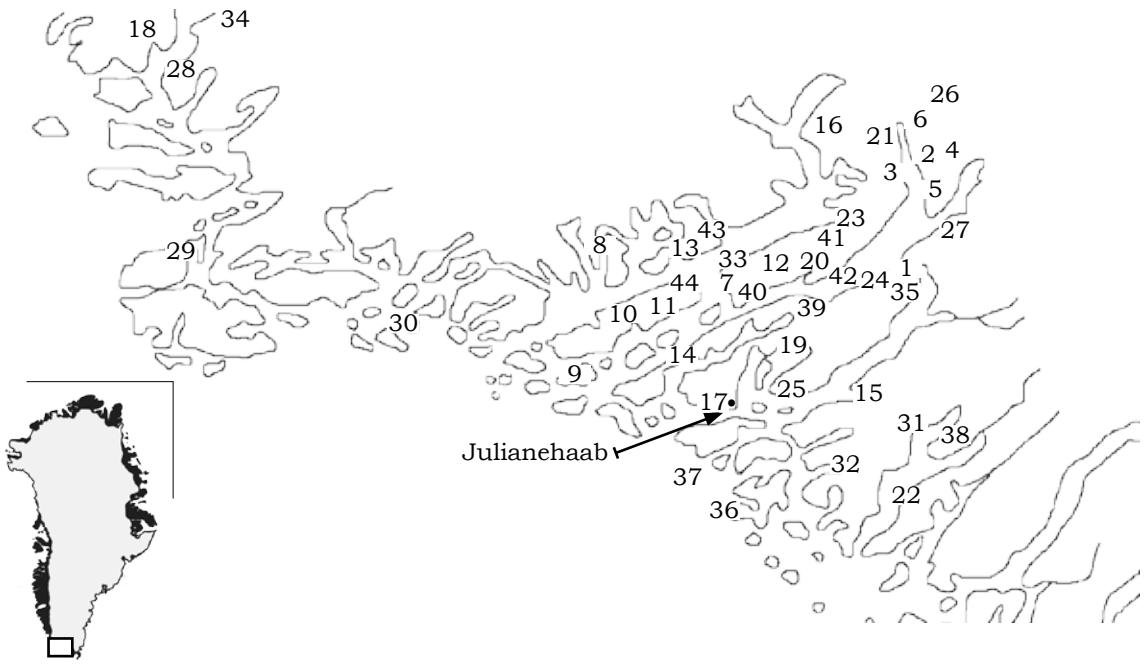

Fig. 1. Location of collecting sites on the west coast of South Greenland between 60°10'N and 61°20'N.

41. Nakkaalaaq, 60°59'N, 45°44'W, alt. 600–1100 m.
42. Agpat, 60°56'N, 45°49'W, basalt dyke.
43. Bredefjord, 61°00'N, 45°59'W, rapakivi granite.
44. Tugtutooq, E-end of the island, 60°53'N, 46°07'W, foyait-syenit.

Abbreviations

Collectors and their herbaria: AS: Ave Suija (TU), ED: Eilif Dahl (O, with some duplicates in C), ET: Einar Timdal (O), JK: Jana Kocourková (PRM), JM: Jurga Motiejūnaitė (BILAS), MK: Martin Kukwa (UGDA-L), MZ: Mikhail Zhurbenko (LE), SH: Starri Heidmarsson (AMNH), SS: Sanja Savic (UPS), SW: Staffan Wall (herb. Wall), US: Ulrik Søchting (C), VA: Vagn Alstrup (C), WvB: Wolfgang von Brackel (herb. Brackel).
* – new to the study area, ** – new to Greenland, # – lichenicolous fungus, § – allied fungus.

RESULTS

This list enumerates all lichenized and lichenicolous fungi known from the west coast of South Greenland between 60°10'N and 61°20'N. Before the NLS excursion around 570 lichen species, varieties and forms, and 59 species of lichenicolous fungi were known from the area. These numbers have now grown to 744 and 156, respectively. Only three macrolichens are reported new to Greenland, while 50 microlichens and 31 lichenicolous fungi are new. Some new species collected during the excursion have been published elsewhere (Alstrup, 2009; Kocourková, 2009; Kowalewska et al., 2008; Savic & Tibell, 2007; Zhurbenko, 2009). Some of the collections reported here have not been identified to species level. Further, a number of supposed undescribed lichenicolous fungi and lichens are known from the area.

The lichen flora is rich and in general not much disturbed except in built up areas. However, sheep grazing and cultivation of grass for winter-fodder has a negative effect on shrub vegetation and therefore some lichens confined to shrubs of *Betula* and *Salix* become endangered, e.g. *Fuscopannaria ahlneri*, *Lobaria scrobiculata*, *Nephroma* spp., *Peltigera collina*, to name a few. There are also lichens restricted to metal-rich rocks which may be mined in the future.

The list

*# Abrothallus bertianus De Not. – 6 (WvB), on *Melanelia stygia*. Previous records from other hosts in the area are probably referable to other species.

Abrothallus parmeliarum (Sommerf.) Arnold – 2 (MK4336), on *Parmelia sulcata*, 3, (AS, JM7546), on *P. saxatilis*. (Alstrup & Hawksworth, 1990).

Abrothallus sp. – 5 (AS, VA), on *Nephroma* sp.

**Absconditella trivialis (Willey ex Tuck.) Vězda – 6 (JM7505), on trampled soil at the fjord coast.

Acarospora badiofusca (Nyl.) Th. Fr. – 2, 4, 12 (1978). Common.

* A. brunneola Norman ex H. Magn. – 1 (ED), on rock.

** A. complanata H. Magn. – 39.

* A. fusca de Lesd. – 3 (ED).

A. fuscata (Nyl.) Arnold – 1, 2, 4–12. Common.

A. glaucocarpa (Wahlenb.) Körb. – (E. S. Hansen, 1978).

A. heppii (Nägeli) Nägeli – (Alstrup, 1986a).

* A. moenium (Vain.) Räsänen – 3 (ET), on calcareous rocks.

A. molybdina (Ach.) Trev. – 3, 13, 21. Common on coastal rocks.

A. nitrophila H. Magn. – 4, 5, on silicious rock. (Alstrup, 1986a).

A. peliscypha (Wahlenb.) Arnold – (E. S. Hansen, 1978).

* A. pyrenopsoides H. Magn. – 20, on rock.

A. rhizobola (Nyl.) Alstrup – 10, 12, in rock fissures. (Alstrup, 1979).

A. scabrida H. Magn. – (Alstrup, 1986a).

A. sinopica (Wahlenb.) Körb. – 5, 15, on rock rich in iron. (Alstrup, 1986a; E. S. Hansen, 2006c).

A. smaragdula (Wahlenb.) A. Massal. – 1–12. Common.

A. veronensis A. Massal. – 25, on rock. Common.

** A. wahlenbergii H. Magn. – 3 (VA7773).

** Agonimia gelatinosa (Ach.) Brand & Diederich – 4 (JK), 5 (JM7478), on the ground.

Alectoria nigricans (Ach.) Nyl. incl. f. sorediata E. Dahl – 1–12. Common.

A. ochroleuca (Ehrh.) Nyl. – 1–12. Common.

A. sarmentosa ssp. vexillifera (Nyl.) D. Hawksw. – (Alstrup, 2004).

Allantoparmelia alpicola (Th. Fr.) Essl. – 1–12. Common.

* Amygdalaria consentiens (Nyl.) Hertel, Brodo & May. Inoue – 24, 25, on rocks.

A. elegantior (H. Magn.) Hertel & Brodo – (Branth 1887).

A. panaeola (Ach.) Hertel & Brodo – 2, 20, 22, 24, on silicious rock. Common.

* A. pelobotryon (Wahlenb.) Ach. – 24.

** Anema nummularium (Duf. ex Duf. & Mont.) Nyl. – 3 (VA7723), on calcareous xerotherm rock.

Arctocetraria andrejevii (Oxner) Kärnefelt & A. Thell – 5, 7–12, in dwarf shrub heath.

Arctomia delicatula Th. Fr. – 5 (JM7490), 10 (VA), on soil. (Dahl, 1950).

Arctoparmelia centrifuga (L.) Hale – 1, 2, 4–12, on silicious rock.

A. incurva (Pers.) Hale – 1–12. Common.

Arthonia digitatae Hafellner – (Alstrup & Hawksworth, 1990, as *A. pelvetii*).

A. epiphyscia Nyl. – 3 (MK4365c), on *Physcia caesia*. (Alstrup & Hawksworth, 1990).

A. excentrica Th. Fr. – 4 (JK), 5 (VA), on *Leprocaulon subalbicans* (JM7481, cfr.), on *Lepraria* sp. (ascospores 9–12 × 3–4 µm). (Alstrup & Hawksworth, 1990).

*# A. fuscopurpurea (Tul.) R. Sant. – 10 (VA), on *Peltigera scabrosa*, 24, on *Peltigera* sp. A previous report on *Psoroma hypnorum* is now believed to belong to another species (Alstrup & Hawksworth, 1990).

*# A. molendoi (Heufl. ex Frauenf.) R. Sant. – 26, on *Xanthoria elegans*.

**# A. nephromiaria Nyl. – 5 (JM 7463), ca. 600 m alt., on *Nephroma expallidum*. Previous records (Alstrup & Hawksworth, 1990) belong to other species.

*# A. peltigerea Th. Fr. – 6 (JM7517), on *Peltigera leucophlebia*.

*# A. peltigerina (Almq.) H. Olivier – 4 (VA), on *P. didactyla*, 5 (AS), on *Solorina crocea*.

*# A. stereocaulina (Ohlert) R. Sant. – 4 (WvB), on *Stereocaulon farinaceum*. A collection on *Stereocaulon alpinum* from Holsteinsborg district (Alstrup & Hawksworth, 1990) belongs here.

Arthonia sp. 1. – 2 (JM7532), on *Psoroma hypnorum*. The species is probably identical with a specimen reported from Disko Island as *A. clemens* (Alstrup & Hawksworth, 1990).

Arthopyrenia analepta (Ach.) A. Massal. – 23, on *Betula*. (Branth, 1887; Alstrup, 1993).

A. grisea (Schleich. ex Schaer.) Körb. – (Branth, 1887, 1892).

**# Arthrorhaphis aeruginosa R. Sant. & Tønsberg – 10 (VA), on *Cladonia cervicornis*; 18, 22, on *Cladonia* squamules. Sterile.

A. alpina (Schaer.) R. Sant. – 1, 2, 4–7, 10–12, on soil and plant remains. Common.

A. citrinella (Ach.) Poelt – 5. Common in coastal areas and alpine.

**# A. olivacea R. Sant. & Tønsberg – 6 (VA), on *Melanohalea olivacea*.

Ascochyta santessonii Alstrup & D. Hawksw. – (Alstrup & Hawksworth, 1990).

* Aspicilia aquatica Körb. – 5 (JK), on sandstone in a brook.

A. arctica (Lynge) Oxner – (E. S. Hansen, 1978).

A. berntii A. Nordin, Tibell & Owe-Larsson – syn. *Lecanora mastoidea* Lynge – 1–12. (Alstrup, 1986a, 1987; E. S. Hansen, 1978, 2006c; Nordin et al., 2008). Common.

* A. caesiocinerea (Malbr.) Arnold – 1–12 (VA). Common.

* A. candida (Anzi) Hue – 3 (VA), 12 (1980).

A. cinerea (L.) Körb. – 3–5, 7, 10, 15, 19, 21, on silicious rock.

A. curvabilis (Nyl.) Hue – (E. S. Hansen, 2006a).

A. elevata (Lynge) Thomson – (Alstrup, 1986a).

* A. mashiginensis (Zahlbr.) Oxner – syn. *Lecanora bennettii* Lynge – 4, 5, 10, 11, on silicious rocks.

A. mastrucata (Ach.) Th. Fr. – 3 (ED), 4, 16, 24. Common.

* A. pergibbosa (H. Magn.) Räsänen – 3 (SW), on calciferous rock.

* A. perradiata (Nyl.) Hue – 3 (SW), 12 (ED), on calciferous rock.

* A. supertegens Arnold – 5 (VA, MK4440, cfr.), on rock.

* Bacidia bagliettoana (A. Massal. & De Not.) Jatta – 4 (VA7725, VA8038), on moss and soil.

** B. beckhausii Körb. – 22, on bark.

B. friesiana (Hepp) Körb. – (Alstrup, 1987).

B. laurocerasi (Del. ex Duby) Zahlbr. – (Alstrup, 1982).

* Baeomyces placophyllus Ach. –2 (JM), 6 (AS), 10, 12, 13 (VA), on soil.

B. rufus (Huds.) Rebent. – 4, 9, 10, 12, on soil. Common.

Bellemerea alpina (Sommerf.) Clauzade & Cl. Roux – 12, 18, 27, 28, on silicious rock (Alstrup, 1986a; E. S. Hansen, 2006c).

B. cinereorufescens (Ach.) Clauzade & Cl. Roux – 1–13, 17, 20, 29. Common.

** B. diamarta (Ach.) Hafellner & Cl. Roux – 7 (ED), on ferrugineos rock.

B. subsorediza (Lynge) R. Sant. – 7 (ED), 12 (VA7765), 13, 30. (Alstrup, 1986a; E. S. Hansen, 2006c).

Belonia russula Nyl. – (Alstrup, 1986a).

Biatora cuprea (Sommerf.) Fr. – (Thomson, 1997).

** B. pullata Norman – 2 (MK4339f), 6 (MK4462b, 4464), on *Betula* sp.

B. subduplex (Nyl.) Printzen (*Lecidea vernalis* auct. groenl.). – 1–12, on plant remains. Common.

Bilimbia berengeriana A. Massal. – 4 (JK), 24, on moss. (E. S. Hansen, 1978; Thomson, 1984).

B. lobulata Sommerf. – 11 (VA7760, VA7761). (Thomson, 1997; E. S. Hansen, 2006c).

B. microcarpa Th. Fr. – 5 (JM 7457), on dead mosses, plant remnants and decaying lichen thalli. (E. S. Hansen, 2006b).

B. sabuletorum Schreb. – 3 (JM 7561), on soil in rock crevices among mosses. (Alstrup, 1986a; Branth, 1887).

** Botryolepraria lesdainii (Hue) Canals et al. – 3 (MK4376), in rock crevice.

Brigantiaea fuscolutea (Dicks.) R. Sant. – (Branth, 1887).

Brodoa intestiniformis (Vill.) Goward – 1–12. Common.

B. oroarctica (Krog) Goward – 2, 4, 6, on silicious rock. Common.

Bryocaulon divergens (Ach.) Kärnefelt – 1, 2, 4–12, in dwarf shrub heath. Common.

* Bryonora castanea (Hepp) Poelt – 5, 10–12, 18, 39, on decaying moss.

B. curvescens (Mudd) Poelt – (Alstrup, 1979; Holtan-Hartwig, 1991).

B. pruinosa (Th. Fr.) Holt.-Hartw. – (E. S. Hansen, 2006c; Holtan-Hartwig, 1991).

* B. septentrionalis Holt.-Hartw. – 17, on moss.

Bryoria chalybeiformis (L.) Brodo & D. Hawksw. – 1–12, in dwarf shrub heath. Common.

B. lanestris (Ach.) Brodo & D. Hawksw. – (Dahl, 1950).

B. nadvornikiana (Gyelnik) Brodo & D. Hawksw. – (Dahl, 1950).

B. nitidula (Th. Fr.) Brodo & D. Hawksw. – 1–12, in dwarf shrub heath. Common.

B. simplicior (Vain.) Brodo & D. Hawksw. – 10 (VA), on lignum. (Alstrup, 1982a).

B. subdivergens (E. Dahl) Brodo & D. Hawksw. – (Alstrup, 1979; Brodo & Alstrup, 1981; Dahl, 1950). Coastal.

B. tenuis (E. Dahl) Brodo & D. Hawksw. – 4 (AS), 5, in dwarf shrub heath. (Dahl, 1950; Thomson, 1984).

Buellia aethalea (Ach.) Th. Fr. (incl. *B. immersa*, *B. ectolechioides* and *B. microplaca*) – 2, 5. Common.

** B. ARNOLDII Servít – 4 (VA8039), on lignum of *Juniperus*.

* B. BADIA (Fr.) A. Massal. – 40, on *Melanelia sorediata*.

B. CHIONEA (Th. Fr.) Sheard – (Alstrup, 1987, 2004).

B. CONCINNATA Th. Fr. – (Alstrup, 1986a; Branth, 1887).

B. CONIOPS (Wahlenb.) Th. Fr. – 3, 7, 22, 29, common on coastal rocks.

B. DISCIFORMIS (Fr.) Mudd – 1, 2, 4–12. Common.

** B. ERUBESCENS Arnold – 6 (MK4469), on *Betula* sp.

B. GEOPHILA (Flörke ex Sommerf.) Lynge – (Branth, 1887).

B. INSIGNIS (Hepp) Körb. – 3 (ED), 5 (JM 7466, 7510), 6 (ED), on dead mosses and plant remains; 31, on *Sedum roseum*. (Branth, 1887).

B. LEPTOCLINE (Flot.) Körb. – (Alstrup, 1986a).

** B. OCELLATA (Flot.) Körb. – 33 (VA, 1978).

B. PAPILLATA (Sommerf.) Tuck. – 9, 21, on moss. (E. S. Hansen, 2006c).

[# B. pulverulenta (Anzi) Jatta – The record on *Lecanora polytropa* (Alstrup & Hawksworth, 1990) probably belongs to another species.]

B. PUNCTATA (Hoffm.) A. Massal. – 1, 3, 6, 32, on *Betula* spp., 20, on rock. Common.

B. STELLULATA (Taylor) Mudd – (Branth, 1887).

B. TESSERATA Körb. – (Alstrup, 1987).

** B. THIOPOLIZA (Nyl.) Boistel – 17.

* B. TRIPHRAGMOIDES Anzi – 5 (ED), on bark.

B. VILIS Th. Fr. – 3 (ED), on sandstone. (Thomson, 1997).

CALOPLACA ALCARUM Poelt – 7 (ED). (E. S. Hansen & Lund, 2003; E. S. Hansen et al., 1987a; E. S. Hansen, 2006c).

C. AMMIOSPILA (Wahlenb.) H. Olivier – 3–6, 12, 15, 18. Common.

* C. APPROXIMATA (Lynge) H. Magn. – 5 (US).

* C. ARENARIA (Pers.) Müll. Arg. – 7 (ED).

C. BOREALIS (Vain.) Poelt – 7 (ED), on bark. (E. S. Hansen et al., 1987a).

* C. CASTELLANA (Räsänen) Poelt – 21, on *Rhizocarpon geminatum*.

C. CERINA (Ehrh.) Th. Fr. – 3–6. (E. S. Hansen, 1978, 2006; E. S. Hansen et al., 1987a).

** C. CITRINA (Hoffm.) Th. Fr. – 14, on bark. Previous records from Greenland belong to *C. flavocitrina*.

* C. EPITHALLINA Lynge – 3 (VA7712), on *Rinodina cacuminum*, 12 (VA, 1978), 39, on crustose lichens.

C. EXSECUTA (Nyl.) Dalla Torre & Sarnth. – 5 (US, JK), on sandstone. (Alstrup, 1986a; E. S. Hansen, 2006b).

C. FERRUGINEA (Huds.) Th. Fr. – (Alstrup, 1981).

C. FLAVOCITRINA (Nyl). H. Olivier (*C. citrina* auct. groenl.). –3 (MK4375), 14, on calciferous rock. (Alstrup, 1986a; E. S. Hansen et al., 1987a).

C. FLAVOVIRESCENS (Wulfen) Dalla Torre & Sarnth. – (E. S. Hansen, 1978; E. S. Hansen et al., 1987a).

C. FRAUDANS (Th. Fr.) H. Olivier – 3, on silicious rock, 7 (in 1980, VA). (E. S. Hansen et al., 1987a; E. S. Hansen & Lund, 2003; E. S. Hansen, 2006c).

C. HOLOCARPA (Hoffm.) Wade s.lat. – 6. (Alstrup, 1982a). Common on various substrates.

C. INVADENS Lynge – 3–6, 23, 26, 39. (Thomson, 1997).

C. JUNGERMANNIAE (Vahl) Th. Fr. – 1, 3–12, on moss and plant debris. Common.

C. LITHOPHILA H. Magn. – 1 (VA7726), on silicious rock. (E. S. Hansen, 1978).

C. MAGNI-FILII Poelt – (E. S. Hansen et al., 1987a).

C. MARINA (Wedd.) Zahlbr. – (E. S. Hansen, 1978).

C. NIVALIS (Körb.) Th. Fr. – 3–6, 14, 17, on mosses on rocks. Common.

C. OBLITERANS (Nyl.) Blomb. & Forssell – (Alstrup, 1986a).

C. PHAEOCARPELLA (Nyl.) Zahlbr. – 1 (VA), on lignum of *Salix*; 5 (VA, JM), 9, on plant remnants. (Alstrup, 1986a; E. S. Hansen, 2006b).

C. SAXICOLA (Hoffm.) Nordin – 3 (ED), 5, 19, on rock. (Branth, 1887, 1892; E. S. Hansen et al., 1987a).

C. SCOPULARIS (Nyl.) Lettau –1 (ED), 3 (MK4365a, VA7771, VA7773, JM7565), 18. Common on coastal rocks.

C. SINAPISPERMA (Lam. & DC.) Maheu & Gillet – 20. (Branth, 1887).

C. SOROCARPA (Vain.) H. Magn. – (Alstrup, 1987). On *Sorbus groenlandica* and *Alnus crispa*.

C. TETRASPORA (Nyl.) H. Olivier – 4 (MK4418, JK), 5 (AS, JK, MK, JM), on mosses. (E. S. Hansen et al., 1987a; E. S. Hansen, 2006).

C. TIROLIENSIS Zahlbr. – 2–5, 9, 10, 12, 13. Common.

* C. TORNOENSIS H. Magn. – 17, on moss.

C. VERRUCULIFERA (Vain.) Zahlbr. – (E. S. Hansen et al., 1987a).

* C. XANTHOSTIGMOIDEA (Räsänen) Zahlbr. – 3 (US), on calcareous rock.

Calvitimela aglaea (Sommerf.) Hafellner – 1, 2, 5–12, 24. Common.

C. armeniaca (DC.) Hafellner – 6–12. Common in humid areas.

* C. melaleuca (Sommerf.) R. Sant. – 4, 6, 14, 17, on rock.

* C. perlata (Haugan & Timdal) R. Sant. – 12 (1978, VA).

Candelariella arctica (Körb.) R. Sant. – 7, 20, 21, 22, 30, on coastal rocks. (Branth, 1887; E. S. Hansen, 2006c).

C. aurella (Hoffm.) Zahlbr. incl. C. dispersa (Räsänen) Hakul. – 1–12, on rock. Common.

C. canadensis H. Magn., syn. *C. terrigena* auct., *C. hudsonica* Hakul. – 3, 4, 15, 27, on soil. Common.

C. coralliza (Nyl.) H. Magn. – 1–12. Common on eutrophicated stones.

* C. kuusamoensis Räsänen – 28 (ED), on soil.

C. placodizans (Nyl.) H. Magn. – 4, 20, 22. (Thomson, 1997; E. S. Hansen 2006c).

C. vitellina (Hoffm.) Müll. Arg. – 1–12. Common.

C. xanthostigma (Ach.) Lettau – (E. S. Hansen, 2006a).

*# Capronia peltigerae (Fuckel) D. Hawksw. – 2 (MK4334), 3 (JM7557), 4 (MK4399), 5 (WvB), on *Peltigera aphthosa*.

*# Carbonea aggregantula (Müll. Arg.) Diederich & Triebel – 5 (JK), 41, on *Lecanora polytropa*.

C. vitellinaria (Nyl.) Hertel – 4 (JK), on *Candelariella canadensis*; 4 (MK4416a), 20, both on *C. placodizans*. (Thomson, 1997).

C. vorticosa (Flörke) Hertel – 39. (Branth, 1887).

Catapyrenium cinereum Körb. – 2–5, 10, 12, 21, on soil. Common in arid areas.

C. daedalium (Kremp.) Stein – 5, 10, 13, on soil. Common.

Catillaria groenlandica Lynge – (E. S. Hansen, 1978).

Catinaria atropurpurea (Schaer.) Vězda & Poelt – (Hansen, 2006b).

C. montana (Nyl.) Vain. – (Alstrup, 1986a). Known from one collection in Greenland, on the basal stem of *Sedum roseum*, otherwise it is known from Macaronesia and the Pyrenées.

*# Cecidonia umbonella (Nyl.) Triebel & Rambold – 6 (WvB), on *Lecidea lapicida*.

*# Cercidospora epicarphinea (Nyl.) Grube & Hafellner – 3 (JM7542, MK4368), 18, on *Xanthoria elegans*.

C. epipolytropa (Mudd) Arnold – 1–12, 21, on *Lecanora polytropa*, and *Rhizoplaca melanophthalma*. Common.

C. groenlandica Alstrup – 15, on *Ochrolechia frigida*. (Alstrup, 2009).

*# C. lichenicola (Zopf) Hafellner – 4 (WvB), 5 (JM7456), on *Solorina crocea*.

*# C. stereocaulorum (Arnold) Hafellner – 4 (JK), 5 (AS), 10 (VA), on *Stereocaulon* sp.

C. trypetheliza (Nyl.) Hafellner & Obermayer – 4 (JM 7489), on *Arthrorhaphis alpina*. (E. S. Hansen & Obermayer, 1999).

**# C. verrucosaria (Linds.) Arnold – 3 (JM7559, WvB), on *Megaspora verrucosa.*

Cetraria aculeata (Schreb.) Fr. – 1–12, in dwarf shrub heath. Common.

C. ericetorum Opiz – 1–12, in dwarf shrub heath. Common.

C. islandica (L.) Ach. incl. ssp. crispiformis (Räsänen) Kärnefelt – 1–12. Common.

C. laevigata Rass. – (Thomson, 1984).

C. muricata (Ach.) Eckfeldt – 1–12. Common.

C. nigricans Nyl. – 1, 5–7, 10–12, on eutrophicated rocks and boulders. Common.

C. sepincola (Ehrh.) Ach. – 1–12. Common.

Cetrariella delisei (Bory) Kärnefelt & A. Thell – 1–12. Common.

C. fastigiata (Nyl.) Kärnefelt & A. Thell – (Thomson, 1984).

Chaenotheca furfuracea (L.) Tibell – 2. (Alstrup, 1981; E. S. Hansen, 2006c).

Chromatochlamys muscorum (Fr.) H. Mayrhofer & Poelt var. octospora (Nyl.) H. Mayrhofer & Poelt – 7 (ED), 10 (VA). (Alstrup, 1993).

Cladonia acuminata (Ach.) Norrl. – (Dahl, 1950; E. S. Hansen, 1978).

C. amaurocraea (Flörke) Schaer. – 1–12. Common.

C. arbuscula (Wallr.) Rabenh. – 1, 2, 5–12. Common in humid and alpine areas.

C. bacilliformis (Nyl.) Glück. – 6. (Dahl, 1950).

C. bellidiflora (Ach.) Schaer. – 1–3, 5–12. Common.

C. borealis Stenroos – 2, 4, 7, 10–12. Common in S Greenland.

C. cariosa (Ach.) Spreng. – 3, 4, 6. On calcareous soil.

C. carneola (Fr.) Fr. – 5. Common.

C. cenotea (Ach.) Schaer. – 5–7 (Branth, 1887; Dahl, 1950; E. S. Hansen, 1978).

C. cervicornis (Ach.) Flot. – 1–12. Common.

C. chlorophaea (Sommerf.) Spreng. s.lat. – 1–12. Common.

C. coccifera (L.) Willd. – 1–12. Common.

C. CONIOCRAEA (Flörke) Spreng. – 6. (Dahl, 1950; Thomson, 1984).
C. CORNUTA (L.) Schaer. – 10. Common.
C. CORNUTA (L.) Schaer. ssp. GROENLANDICA (E. Dahl) Ahti – (Ahti, 1980; Alstrup, 1981; Dahl, 1950).
C. CRISPATA (Ach.) Flot. – 5, 7, 10. In humid heathland. Common.
C. CRISPATA var. CETRARIIFORMIS (Delise) Vain. – (Dahl, 1950).
C. CYANIPES (Sommerf.) Vain. – 1, 2, 5–7, 10–12. Common.
C. DAHLIANA H. Krist. – (Kristinsson, 1974).
C. DECORTICATA (Flörke) Spreng. – (K. Hansen, 1971).
C. DEFORMIS (L.) Hoffm. – 1, 2, 5–7, 9–12. Common.
C. DIGITATA (L.) Schaer. – 10. (Dahl, 1950).
C. ECMOCYNA (Ach.) Nyl. – 6. Common in cool and moist places.
C. FIMBRIATA (L.) Fr. – 4, 10, on soil. Common on plant remains and occasionally at the base of trees.
C. FLOERKEANA (Fr.) Flörke – 5. Common.
C. GRACILIS (L.) Willd. subsp. NIGRIPES (Nyl.) Ahti – 1–12. Common, subsp. GRACILIS is probably also present in S Greenland. (Ahti, 1980).
C. GRAYI Sandst. – (Dahl, 1950).
C. LUTEOALBA Wheldon & A. Wilson – (E. S. Hansen, 2006b, c).
C. MACROCERAS (Delise) Ahti – 2–5, 12 (1978), in alpine heath. (Ahti, 1980).
C. MACROPHYLLA (Schaer.) Stenh. – 5, 10. Common.
C. MACROPHYLLODES Nyl. – 4–5. Common.
C. MAXIMA (Asahina) Ahti – (Thomson, 1984).
C. MEROCHLOROPHAEA Asahina – 2, 9–11. (Dahl, 1950).
C. METACORALLIFERA Asahina – (E. S. Hansen, 2006b).
C. MITIS Sandst. – 1–12. Common.
C. MONOMORPHA Aptroot, Sipman & van Herk – 2 (MK4330), 3 (MK4361), 4 (JK, MK4396, ED), 7, on soil. (Kowalewska et al., 2008).
C. NOVOCHLOROPHAEA (Sipman) Brodo & Ahti – (Dahl, 1950).
C. OCHROCHLORA Flörke – (E. S. Hansen, 1983).
C. PHYLLOPHORA Hoffm. – 2, 4, 7. Common.
C. PLEUROTA (Flörke) Schaer. – 2, 5, 6, 10. Common.
C. POCILLUM (Ach.) Grognot – 1–4, 12. Common on calcareous soil in the inland.
C. PYXIDATA (L.) Hoffm. – 1–12. Common.
C. RANGIFERINA F. H. Wigg. – 1–12. Common.
C. SCABRIUSCULA (Delise) Leight. – 19, 33, 41.
C. SQUAMOSA (Scop.) Hoffm. – 9, 10. Common in moist, nutrient-poor heathland.
C. STELLARIS (Opiz) Pouzar & Vězda –1, 7–12. Common in coastal areas.
* C. STREPSILIS (Ach.) Grognot – 1 (VA), on gravelly soil in windswept area.
C. STRICTA (Nyl.) Nyl. – 4, 7, 9. (Dahl, 1950; K. Hansen, 1971; E. S. Hansen, 1978).
C. STYGIA (Fr.) Ruoss –2, 4–12. Common in coastal and alpine areas.
C. SUBCERVICORNIS (Vain.) Kernst. – 10. (Dahl, 1950; E. S. Hansen, 1978; K. Hansen, 1971).
C. SUBFURCATA (Nyl.) Arnold – (Dahl, 1950; K. Hansen, 1971).
C. SUBULATA (L.) F. H. Wigg. – 5. (E. S. Hansen & Lund, 2003; K. Hansen, 1971; Thomson, 1984).
C. SULPHURINA (Michx.) Fr. – 9, 10, 12. (E. S. Hansen, 1975, 1978, 2006c; E. S. Hansen & Lund, 2003).
C. SYMPHYCARPIA (Flörke) Fr. – (E. S. Hansen, 2006b).
* C. TRASSII Ahti – 5 (ET, VA).
C. TURGIDA (Ehrh.) Hoffm. – (Dahl, 1950).
C. UNCIALIS (Schaer.) Stenh. – 1–12. Common.
C. VERTICILLATA (Hoffm.) Schaer. – 4, 7, 10–12. Common in oceanic areas.
** CLIOSTOMUM PALLENS (Kullh.) S. Ekman – 10 (VA), on *Betula glandulosa*.
**# CLYPEOCOCCUM CETRARIAE Hafellner – 4 (JM7551), on *Cetraria islandica*.
C. GROSSUM (Körb.) D. Hawksw. – (Alstrup & Hawksworth, 1990).
COLLEMA BACHMANNIANUM (Fink) Degel. – (Thomson, 1984).
C. CERANISCUM Nyl. – 3, 5, 6. (Alstrup, 1982; Dahl, 1950).
* C. CRISPUM (Huds.) F. H. Wigg. – 5 (VA).
C. FLACCIDUM (Ach.) Ach. – 2 (JM 7558). (Branth, 1887).
C. FUSCOVIRENS (With.) J. R. Laundon – 3 (JM 7562); on soil in rock crevices among mosses. (E. S. Hansen, 2006c).
C. GLEBULENTUM (Cromb.) Degel. – 2, 3, 5. (Dahl, 1950; K. Hansen, 1971).
C. POLYCARPON Hoffm. – (Alstrup, 1982a).
C. TENAX (Sw.) Ach. – 3, 5, 6. (Branth, 1887; Dahl, 1950).
C. UNDULATUM Flot. – (Dahl, 1950).
C. UNDULATUM var. GRANULOSUM Degel. – (Alstrup, 1981).

* Collemopsidium sublitorale (Leight.) Grube & B. D. Ryan – 1 (VA7731), on *Balanus* shell.

*# Corticifraga peltigerae (Nyl.) D. Hawksw. & R. Sant. – 2 (JM, WvB), 3 (AS), 6 (MK), 7 (WvB), 10 (VA), on *Peltigera* spp.

Cryptothele granuliformis (Nyl.) Henssen – (Dahl, 1950).

C. rhodosticta (Taylor) Henssen – (Dahl, 1950; E. S. Hansen, 2006b).

Cystocoleus ebeneus (Dillwyn) Thwaites – 10, 12. (Alstrup, 1981).

*# Dacampia hookeri (Borrer) A. Massal. – 5 (WvB), on *Solorina crocea.* First record on this host, otherwise on *S. saccata* and S. *octospora*.

*# Dactylospora amygdalariae Triebel – 3 (AS), 5, 10 (WvB), 22, on *Amygdalaria panaeola*.

D. aspiciliicola Alstrup & D. Hawksw. – (Alstrup & Hawksworth, 1990).

**# D. deminuta (Th. Fr.) Triebel – 4 (JK), on *Protopannaria pezizoides*.

*# D. rinodinicola Alstrup & D. Hawksw. – 5 (JK), on sterile crustose lichen.

*# D. urceolata (Th. Fr.) Arnold. – 5 (JK), on *Rinodina mniarea*.

Dermatocarpon arnoldianum Degel. – (Alstrup, 1981).

D. deminuens Vain. – 5 (JK), on rock in brook. (Alstrup, 1979).

D. intestiniforme (Körb.) Hasse – (Thomson, 1984).

D. lyngei Servít – (Dahl, 1950).

D. meiophyllizum Vain. – syn. *D. botularium* (Nyl.) Branth – (Branth, 1887; E. S. Hansen, 2003).

D. miniatum (L.) W. Mann – 2–5. Common.

D. rivulorum (Arnold) Dalla Torre & Sarnth. – 5. (Dahl, 1950).

Dibaeis baeomyces (L. fil.) Rambold & Hertel – 2, 4, 10. Common but mostly sterile, fertile at loc. 4 and 10.

Dimelaena oreina (Ach.) Norman – 2–4, 10, 26. Common in relatively warm and dry areas.

Diploschistes muscorum (Scop.) R. Sant. – 2–7, 10, 12, 15, 26, on mosses. Common.

D. scruposus (Schaer.) Norman – 1–12, on silicious rocks. Common.

Diplotomma alboatrum (Hoffm.) Flot. – 33, on *Xanthoria elegans*. (E. S. Hansen, 1978; Alstrup & Hawksworth, 1990).

*# Echinothecium reticulatum Zopf – 3 (WvB), on *Parmelia sulcata*.

Endocarpon pulvinatum Th. Fr. – (Alstrup, 1986b).

*# Endococcus macrosporus (Arnold) Nyl. – 4 (JK), 5 (JK, WvB), 6 (MK4489), 13 (VA), 22, 39, on yellow *Rhizocarpon* spp.

E. propinquus (Körb.) D. Hawksw. – 5 (JK), on *Porpidia rugosa*. Known from several microlichens in the area.

E. rugulosus Nyl. s.lat. – 3 (VA), on *Lecanora intricata*; 7 (ED), on *Acarospora fuscata*; 10 (VA), on *Aspicilia cinerea*; 29, on *Lecidea lapicida*. The taxonomy of the *E. rugulosus* group has not yet been solved. Reported also from other hosts.

*# E. stigma (Körb.) Stizenb. – 6 (WvB), on *Acarospora fuscata.* Previous records (Alstrup & Hawksworth, 1990) on other hosts from the area are based on a wider species concept.

** #E. verrucisporus Alstrup – 5 (JK), on *Ionaspis lacustris*, 6 (ED), on *I. odora*.

**#E. verrucosus Hafellner – 5 (JK), on *Aspicilia aquatica*.

Endococcus sp. – 4 (AS), on *Rhizocarpon* sp.

Endococcus sp. – 7 (ED), on *Lecanora polytropa*.

Ephebe hispidula (Ach.) Horw. – 10, 12, on moist rocks. Common.

E. lanata (L.) Vain. – 2, 5, 10–11. Common on moist rocks.

E. multispora (E. Dahl) Henssen – (Dahl, 1950; Thomson, 1984).

**# Epibryon conductrix (Norman) Nik. Hoffmann & Hafellner – 5 (JM7454), c. 600 m alt., on *Catapyrenium daedaleum*.

**# Epicladonia simplex D. Hawksw. – 4 (JM7486), on *Cladonia fimbriata*.

*# Epilichen glauconigellus (Nyl.) Hafellner – 10 (VA7743), on *Baeomyces rufus*.

E. scabrosus (Ach.) Hafellner – 6, 9–11, on *Baeomyces* spp.

Euopsis pulvinata (Schaer.) Vain. – 9–12, 24. Common in humid areas.

Everniicola flexispora D. Hawksw. – 2 (AS, MK, JM), 8 (WvB), on *Nephroma arcticum*, 4 (JK), on *Melanelia hepatizon*. (Alstrup & Hawksworth, 1990). Common on *N. arcticum*.

Farnoldia micropsis (A. Massal.) Hertel – (Branth, 1887).

Flavocetraria cucullata (Bellardi) Kärnefelt & A. Thell – 1–12. Common.

F. nivalis (L.) Kärnefelt & A. Thell – 1–12. Common.

Frutidella caesioatra (Schaer.) Kalb – 7–10, 22, 24. Common.

Fuscidea gothoburgensis (H. Magn.) V. Wirth – 20. (Alstrup, 2004).

** F. mollis (Wahlenb.) V. Wirth & Vězda var. caesioalbescens (H. Magn.) Clauzade & Cl. Roux – 23, on rock.

FUSCOPANNARIA AHLNERI (P. M. Jørg.) P. M. Jørg. – 5, 6, 10. (Alstrup, 1986a). Rare on moist rocks and on moss and *Salix* in spray zones.

F. PRAETERMISSA (Nyl.) P. M. Jørg. – 3–7, 9, 10, 12. Common.

*# GELTINGIA ASSOCIATA (Th. Fr.) Alstrup & D. Hawksw. – 11 (WvB), on *Ochrolechia frigida*.

GRAPHIUM APHTHOSAE Alstrup & D. Hawksw. – 2, 5 (JM); 6 (MZ4487a); 9, 10 (VA), on *Peltigera aphthosa*. (E. S. Hansen, 1998).

GYALECTA FOVEOLARIS (Ach.) Schaer. – 1, 3 (ED), 5, on calcareous soil. (E. S. Hansen, 1978).

GYALIDEA DIAPHANA (Körb.) Vězda – (Alstrup, 1989).

G. LECIDEOPSIS (A. Massal.) Lettau – (E. S. Hansen et al., 1987b).

HAINESIA PELTIGERICOLA Alstrup – 10, 12, on *Peltigera* spp. (Alstrup, 2009).

HOMOSTEGIA PIGGOTII (Berk. & Broome) P. Karst. – (Alstrup & Hawksworth, 1990).

HYMENELIA ARCTICA (Lynge) Lutzoni – (Alstrup, 1979).

* H. CYANOCARPA (Anzi) Lutzoni – 22, 42, on rock.

H. EPULOTICA (Ach.) Lutzoni – (Alstrup, 1986a).

HYPOGYMNIA AUSTERODES (Nyl.) Räsänen – 1, 2, 4–7, 10–12. Common.

H. PHYSODES (L.) Nyl. – 5, 6, 9, 10, 12. Common.

** H. VITTATA (Ach.) Parrique – 10 (arctic-alpine form, MZ).

ICMADOPHILA ERICETORUM (L.) Zahlbr. – 10, on soil. (Branth, 1887; Dahl, 1950).

ILLOSPORIUM CARNEUM Fr. – 3 (VA), on *Peltigera didactyla*, (JM), on *P. rufescens*; 5 (WvB), on *P. collina*; 10 (VA), on *P. didactyla*. Common, but rarely reported from other hosts than *P. didactyla*.

*# INTRALICHEN CHRISTIANSENII (D. Hawksw.) D. Hawksw. & M. S. Cole – 22, on *Lecanora rupicola*.

I. LICHENICOLA (M. S. Christ. & D. Hawksw.) D. Hawksw. & M. S. Cole – (Alstrup & Hawksworth, 1990). Reported from *Candelariella* spp. and many other hosts, but the entire genus needs revision.

*# I. LICHENUM (Diederich) D. Hawksw. & M. S. Cole – 34, on *Japewia tornoensis*.

IONASPIS LACUSTRIS (With.) Lutzoni – 5 (JK), 7 (ED), 10 (VA7758, VA7786), 14, 20, on moist silicious rocks. Common.

I. ODORA (Ach.) Th. Fr. – 6 (ED), 15, 20. (Alstrup, 1987, 1993).

I. SUAVEOLENS (Fr.) Th. Fr. – 10 (VA7778), 15, on rock. (Alstrup, 1986a).

* I. VENTOSA P. M. Jørg. & R. Sant. – 39.

JAPEWIA TORNOENSIS (Nyl.) Tønsberg – 1–12. Common.

KALAALLIA REACTIVA Alstrup & D. Hawksw. – (Alstrup & Hawksworth, 1990).

KOERBERIELLA WIMMERIANA (Körb.) Stein – 5 (JK), on moist sandstone. (Alstrup, 1979; Alstrup & Hawksworth, 1990).

LASALLIA PENNSYLVANICA (Hoffm.) Llano – 2, 4, 5, 10, 11. Common.

LASIOSPHAERIOPSIS STEREOCAULICOLA (Linds.) O. E. Erikss. & R. Sant. – 5 (MK4437), on *Stereocaulon* sp. (Alstrup & Hawksworth, 1990).

LECANIA SUBFUSCULA (Nyl.) S. Ekman – (E. S. Hansen, 2006b).

** LECANORA AITEMA (Ach.) Hepp – 10, on lignum (VA7805, VA7810).

L. ALBESCENS (Hoffm.) Flörke – 3, 5, 7. (E. S. Hansen, 1978).

L. ARGOPHOLIS (Ach.) Ach. – 3, 5, 6, 12, 14, 16, 18, 25. On silicious rocks in sheltered positions.

L. ATROSULPHUREA (Wahlenb.) Ach. – (E. S. Hansen, 1984; E. S. Hansen & Lund, 2003).

L. BERINGII Nyl. – 3, 21, on plant remains and bark. Common.

L. BOLIGERA (Th. Fr.) Hedl. – (E.S. Hansen, 2004).

** L. CADUBRIAE (A. Massal.) Hedl. – 6 (MK4466a), on *Betula* sp.

L. CAESIOSULPHUREA Vain. – (Alstrup, 1986a).

** L. CAMPESTRIS (Schaer.) Hue – 17, 20, on rocks. Further collection: Sukkertoppen district, Sønder Isortoq, Nugaarssuk, 65°27'N, 52°13'W, 25 July 1977, VA771370.

** L. CARPOIDES Timdal – 2, 5, 6 (ET), 10 (VA), on *Parmelia omphalodes*, *Allantoparmelia alpicola*, *Melanelia hepatizon*, etc., on shaded steep rocks.

L. CENISEA Ach. – 2, 14. (Alstrup & Hawksworth, 1990; Branth, 1887; E. S. Hansen, 2006c).

L. CHLOROLEPROSA (Vain.) H. Magn. – 5, 10, 12, on steep silicious rocks. (Alstrup, 1986a; 1987; E. S. Hansen, 2006c).

L. CHLOROPHAEODES Nyl. – 4, 5, 24, on silicious rocks. (Alstrup, 1986a).

L. CIRCUMBOREALIS Brodo & Vitik. – 2, 4–7, 9, 10, 12, on *Betula glandulosa*.

L. CONTRACTULA Nyl. – 3 (VA7719), on coastal rock. (E. S. Hansen, 2004, 2006c, E. S. Hansen & Lund, 2003).

* L. DISCOENSIS Lynge – 39.
L. DISPERSA (Pers.) Sommerf. – 1–12, on silicious stones and rocks. Common.
L. EPIBRYON (Ach.) Ach. – 3, 5–7, 9, 10, 12, 15, 23, 34 on mosses. Common.
L. EPITHALLINA H. Magn. – (Alstrup, 1986a).
L. FORMOSA (Bagl. & Carestia) Knoph & Leuckert – (Alstrup, 1986a; Hertel, 1981).
L. FRUSTULOSA (Dicks.) Ach. – 1, 3, 5, 7, 10, 12, 14, on rocks. Common.
L. FUGIENS Nyl. – (Alstrup, 1987).
L. FUSCESCENS (Sommerf.) Nyl. – 1–12, 18, 24. Common.
L. GEOPHILA (Th. Fr.) Poelt – 4 (VA), on soil. (E. S. Hansen, 2006a).
L. INTRICATA (Ach.) Ach. – 1–12. Common on stones near the gound.
L. LEPTACINA Sommerf. – 3, 5, 10, 12, 41, on moss. (Thomson, 1997).
* L. LEUCOCOCCA Sommerf. – 1, 5, 7–12 (VA). Common in oceanic areas.
L. POLIOPHAEA (Wahlenb.) Ach. – (Alstrup, 1986a).
L. POLYTROPA (Hoffm.) Rabenh. – 1–12. Common.
L. REAGENS Norman – (Alstrup, 1986a).
L. RUPICOLA (L.) Zahlbr. – 22, on silicious rock. (Branth, 1887; E. S. Hansen, 1978).
L. SALIGNA (Schrad.) Zahlbr. – 6 (MK4464a), on *Betula* sp. (Branth, 1887).
L. SALINA H. Magn. – 3 (ED), 7 (ED), 9, 35, on coastal rocks. (Alstrup, 1987).
L. STRAMINEA (Wahlenb.) Ach. – 3, 5, 7 (ED), 21. Common on coastal rocks.
** L. SUBAUREA Zahlbr. – 6, on rock (MK4495).
L. SUBCARNEA (Liljebl.) Ach. – (Alstrup, 1982a).
L. SWARTZII (Ach.) Ach. – 24, on rock. (E. S. Hansen, 2006c).
L. SYMMICTA (Ach.) Ach. – 1–12. Common.
L. VARIA (Hoffm.) Ach. – 2, 4–6, 17, on lignum. Common.
* L. ZOSTERAE (Ach.) Nyl. – 3 (MK4370), on plant debris.
LECIDEA ALPESTRIS Sommerf. – (Branth, 1887).
L. ANTILOGA Stirt. – 4–6, 9–12, 17, 21, 24, on bark of *Betula* spp. (Alstrup, 1986a).
L. ATROBRUNNEA (Lam. & DC.) Schaer. s.lat. – 1–12. Common.
L. ATROMARGINATA H. Magn. – 3, 5, 26, on rock. (Alstrup, 1979; Alstrup & Hawksworth, 1990).
L. AURICULATA Th. Fr. – 7 (ED), on rock. (Branth, 1887; E. S. Hansen & Lund, 2003; E. S. Hansen, 2006c).
L. CONFLUENS (Weber) Ach. – (Branth, 1887).
L. CONFLUENTULA Müll. Arg. – (Hertel, 1981).
L. ERYTHROPHAEA Flörke ex Sommerf. – (Branth, 1887).
L. HAERJEDALICA H. Magn. – (Hertel, 1981).
L. LACTEA Schaer. – 1–12. Common.
L. LAPICIDA (Ach.) Ach. – 1–12. Common.
L. LEUCOTHALLINA Arnold – 3 (ED), 18, 23. (Alstrup, 1986a; Hertel, 1981).
L. LITHOPHILA (Ach.) Ach. – (Branth, 1887).
L. MARGINATA Schaer. – (Thomson, 1997).
* L. NYLANDERI (Anzi) Th. Fr. – 6 (MK4475), on *Betula* sp.
L. PRAENUBILA Nyl. – 2–7, 17, 20. (E. S. Hansen, 2006a).
L. PROMISCENS Nyl. – (E. S. Hansen, 2006b).
*L. RAMULOSA Th. Fr. – 6 (ED), on plant remains.
L. SILACEA Ach. – 4 (VA), 5 (AS), on silicious, ferrugineous rocks. (E. S. Hansen, 2006c).
L. STENOTERA (Nyl.) Nyl. – (Branth, 1887).
L. SWARTZOIDEA Nyl. – (Hertel, 1981).
L. TESSELATA Flörke – 3, 16, 23, on silicious rocks. Common.
L. TESSELATA var. CAESIA (Anzi) Arnold – 16. (Hertel, 1981).
** L. TURGIDULA Fr. – 5 (JK), on *Betula glandulosa*.
** LECIDELLA ANOMALOIDES (A. Massal.) Hertel & Kilias – 39.
L. ASEMA (Nyl.) Knoph & Hertel – (E. S. Hansen, 2006a).
L. CARPATHICA Körb. – 3 (ED), 39. (E. S. Hansen, 2006b).
L. EUPHOREA (Flörke) Hertel – 4, 20, 24, on *Betula* (VA8040), 21, on dead *Physconia muscigena*. (Branth, 1887; E. S. Hansen, 2006c).
L. LECANORICOLA Alstrup, D. Hawksw. & R. Sant. – (Alstrup & Hawksworth, 1990).
* L. PATAVINA (A. Massal.) Knoph & Hertel – 17, on rock.
L. STIGMATEA (Ach.) Hertel & Leuckert – 2, 7 (ED). (Alstrup, 1986a; Thomson, 1997).
L. WULFENII (Hepp) Körb. – 20, 23, on turf. (E. S. Hansen, 2006b).
LECIDOMA DEMISSUM (Rutstr.) Gotth. Schneid. & Hertel – 1–12. Common.
LECIOPHYSMA FINMARKICUM Th. Fr. – 2 (JM7541), on plant remains. (Dahl, 1950).
L. FURFURASCENS (Nyl.) Gyelnik – (Dahl, 1950).
LEMPHOLEMMA INTRICATUM (Arnold) Zahlbr. – (Alstrup, 1986a).
L. POLYANTHES (Bernh.) Malme – (E. S. Hansen & Poelt, 1987; E. S. Hansen, 2006a).

L. RADIATUM (Sommerf.) Henssen – (Alstrup, 1986a; Dahl, 1950).

LEPRARIA ALPINA (de Lesd.) Tretiach & Baruffo – 2 (MK4348), 5 (MK4458), on rock. (Saag et al., 2007).

L. ALPINA var. ZEORINICA L. Saag – (Saag et al., 2007).

L. ATLANTICA Orange – (Saag et al., 2007).

L. BOREALIS Lohtander & Tønsberg – (Saag et al., 2007).

L. CAESIOALBA (de Lesd.) J. R. Laundon – (Saag et al., 2007).

L. CAESIOALBA var. GROENLANDICA L. Saag – (Saag et al., 2007).

* L. EBURNEA J. R. Laundon, chemotype I of Orange – 4 (MK4389), on soil.

** L. EBURNEA J. R. Laundon, chemotype II of Orange – 6 (MK4495a), on rock.

L. ELOBATA Tønsberg – (Saag et al., 2007).

L. GELIDA Tønsberg & Zhurb. – (Saag et al., 2007).

L. JACKII Tønsberg – 2 (MK4339e), on *Betula* sp. (Saag et al., 2007).

L. NEGLECTA (Nyl.) Lettau – 3 (MK4370a), 5, 6, 10, on moss and plant debris. Common.

L. NIVALIS J. R. Laundon – (Saag et al. 2007).

** L. RIGIDULA (de Lesd.) Tønsberg – 6 (MK4495b), on rock.

L. VOUAUXII (Hue) R. C. Harris – 3 (MK4363), on limestone; 5 (MK4441, 4452), on rock and moss. (E. S. Hansen, 1978, 2006c; Saag et al., 2007).

LEPROCAULON ALBICANS (Th. Fr.) Hue – (Alstrup, 1979; Saag et al., 2007).

L. GRACILESCENS (Nyl.) I. M. Lamb & Ward – (Saag et al., 2007).

L. SUBALBICANS (I. M. Lamb) I. M. Lamb & A. M. Ward – 2–7, 10–12, 15, 30. (Saag et al., 2007).

*LEPTOGIUM GELATINOSUM (With.) J. R. Laundon – 3, 4 (JM), 5 (JK, JM), 7 (VA), 39, 40, on mosses.

L. LICHENOIDES (L.) Zahlbr. – 3, 5. Common.

L. SATURNINUM (Dicks.) Nyl. – 3–6. Common on tree bases in warmer parts of SW Greenland.

L. TENUISSIMUM (Dicks.) Körb. – (E. S. Hansen, 2006a).

** LEUCOCARPIA DICTYOSPORA (Orange) R. Sant. – 5 (JM7482), on moribund thallus of *Peltigera* sp.

**# LICHENOCONIUM EDGEWOODENSE Alstrup & M. S. Cole – 3 (WvB), on *Parmelia sulcata*. First record since its description from British Columbia.

*# L. LECANORAE (Jaap) D. Hawksw. – 3 (JM 7571), on *Lecanora polytropa*.

**# L. PYXIDATAE (Oudem.) Petr, & Syd. – 4 (MK4389a), on *Cladonia chlorophaea*.

*# L. USNEAE (Anzi) D. Hawksw. – 5 (WvB), on *Parmelia saxatilis*.

*# LICHENODIPLIS LECANORAE (Vouaux) Dyko & D. Hawksw. – 2 (MK4363), on *Caloplaca* sp.; 3 (JM7565), on *C. scopularis*.

LICHENOMPHALIA ALPINA (Britzelm.) Redhead et al. – 10, 11. (E. S. Hansen, 2006a).

L. HUDSONIANA (H. S. Jenn.) Redhead et al. – 7, 10, 12. Common.

L. UMBELLIFERA (Fr.) Redhead et al. – 10. (Alstrup, 1986a).

L. VELUTINA (Quél.) Redhead et al. – (Alstrup, 1986a).

*# LICHENOPELTELLA CETRARIICOLA (Nyl.) R. Sant. – 5 (VA), on *Cetraria islandica*, 11 (WvB), on *Arctocetraria andrejevii*.

L. CLADONIARUM E. S. Hansen & Alstrup – (E. S. Hansen & Alstrup, 1995).

LICHENOPUCCINIA POELTII D. Hawksw. & Hafellner – (Alstrup & Hawksworth, 1990).

LICHENOSTICTA ALCICORNARIA (Linds.) D. Hawksw. – (Alstrup, 1993).

**# LICHENOSTIGMA ARCTOPARMELIAE R. Sant. ined. – 4 (JK), 5 (AS), on *Arctoparmelia centrifuga*, 10 (VA), on *A. incurva*, 24.

*# L. COSMOPOLITES Hafellner & Calatayud – 5 (JK), 13 (1978) and also seen at several other places, on *Xanthoparmelia conspersa*. Common.

LITHOGRAPHA TESSERATA (DC.) Nyl. var. NIVALIS (Th. Fr.) Zahlbr. – (Alstrup, 1979).

LOBARIA HALLII (Tuck.) Zahlbr. – (Dahl, 1950; K. Hansen, 1971).

L. SCROBICULATA (Scop.) DC. – 2, 4–6, 10–12. Common.

LOBOTHALLIA ALPHOPLACA (Wahlenb.) Hafellner – 5 (ED), 12, 18, 21, 26. Common.

* L. MELANASPIS (Ach.) Hafellner – 6 (VA).

LOPADIUM CORALLOIDEUM (Nyl.) Lynge – 7, 34, on mosses. (Thomson, 1997).

L. PEZIZOIDEUM (Ach.) Körb. – 5, 7, 10, 12, 13, 18, 31. Common.

*# MARCHANDIOMYCES CORALLINUS (Roberge) Diederich & D. Hawksw. – 4 (AS, MK4415, MK4492), 6 (AS, WvB), 9, 10, 12 (VA), on *Allantoparmelia alpicola*, *Melanelia hepatizon*, *M. stygia*, *Ochrolechia frigida*, *Pseudephebe minuscula*, *P. pubescens*, and *Umbilicaria hyperborea*.

Massalongia carnosa (Dicks.) Körb. – 1–12. Common.

Megaspora verrucosa (Ach.) A. Massal. – 1–12. Common.

Melanelia commixta (Nyl.) A. Thell – 1–12. Common.

M. disjuncta (Erichsen) Essl. – 1, 3 (VA7724), 5. Common.

M. hepatizon (Ach.) A. Thell – 1–12. Common.

M. panniformis (Nyl.) Essl. – 4, 5. (Dahl, 1950).

M. sorediata (Ach.) Goward & Ahti – 5. (Dahl, 1950; K. Hansen, 1971).

M. stygia (L.) Ach. including var. septentrionalis Lynge – 3–6, 9–12. (Alstrup, 1979; Dahl, 1950).

M. tominii (Oxner) Essl. – 5. (E. S. Hansen, 1984; K. Hansen, 1971).

Melanohalea elegantula (Zahlbr.) O. Blanco et al. – (Thomson, 1984).

M. exasperatula (Nyl.) O. Blanco et al. – (E. S. Hansen, 1984).

M. infumata (Nyl.) O. Blanco et al. – 3, 4, 6, 7, 10. Common.

M. olivacea (L.) O. Blanco et al. – 2–6, 9, 10. Common.

M. septentrionalis (Lynge) O. Blanco et al. – 2, 5, 6. Common.

§ Melaspilea proximella (Nyl.) Nyl. – (Alstrup, 1982; Branth, 1887).

*# Merismatium coccisporum (Norman) Vouaux – 10 (VA), on *Euopsis pulvinata*.

**# M. decolorans (Rehm ex Arnold) Triebel – 5 (AS), on *Caloplaca tetraspora* on mosses.

M. heterophractum (Nyl.) Vouaux – 4 (JK), on *Caloplaca tetraspora*. (E. S. Hansen, 1998).

M. nigritellum (Nyl.) Vouaux – 6 (JM7524), on *Santessoniella arctophila*, (ascospores at first almost colourless, later greyish brown, at first submuriform, later strongly muriform, 20–27.5 × 11–12.5 µm). (Alstrup & Hawksworth, 1990, loc 2 as *M. lopadii*).

Micarea assimilata (Nyl.) Coppins – 6, on moss. (E. S. Hansen & Lund, 2003; Thomson, 1997).

M. incrassata Hedl. – (E. S. Hansen, 2006b).

* M. ligniaria (Ach.) Hedl. – 6 (ED).

M. melaena (Nyl.) Hedl. – syn. *Parmeliella oblongata* Lynge – (Dahl, 1950).

M. nitschkeana (J. Lahm ex Rabenh.) Harm. – (E. S. Hansen, 2006b).

** M. prasina Fr. s.lat. – 4 (MK4420, no substances detected in TLC), on moss.

* M. turfosa (A. Massal.) Du Rietz – 4 (MK4411, 4422, 4425a), on moss.

Miriquidica atrofulva (Sommerf.) A. J. Schwab & Rambold – 9, 10, 12, 15, 17, 20, 22, 36, 37. Common on iron-rich rocks.

M. deusta (Stenh.) Hertel & Rambold – (Branth, 1887).

M. garovaglii (Schaer.) Hertel & Rambold – (Alstrup, 1986a; Branth, 1887; Hertel, 1981; E. S. Hansen, 2006c).

M. leucophaea (Flörke ex Rabenh.) Hertel & Rambold – (E. S. Hansen, 2006c).

M. lulensis (Hellb.) Hertel & Rambold – (Alstrup, 1986a; E. S. Hansen, 2006c).

M. molybdochroa (Hertel) Hertel & Rambold – 18. (Alstrup, 1986a; Hertel, 1981; Thomson, 1997).

M. nigroleprosa (Vain.) Hertel & Rambold – 2, 3, 9, 10, 12, 17. Common on iron-rich rocks.

*# Muellerella erratica (A. Massal.) Hafellner & V. John – 3 (JM), 5 (JK), on *Caloplaca executa* and *Porpidia melinodes*.

M. lichenicola (Sommerf.) D. Hawksw. – 3 (MK4366a), on *Rinodina endophragmia*; 24, on *Rhizocarpon inarense*. (Alstrup & Hawksworth, 1990).

M. pygmaea (Körb.) D. Hawksw. – 5 (JK), on *Porpidia cinereoatra*; 7 (ED), on *Lecidella stigmatea*; 14, on *Lecidea lactea*; 22, on *Porpidia tuberculosa*. (Alstrup & Hawksworth, 1990).

**# M. ventosicola (Mudd) D. Hawksw. – 6 (JM 7521), on *Rhizocarpon geographicum*.

Multiclavula vernalis (Schwein.) R. H. Petersen – (E. S. Hansen, 2006c).

** Mycobilimbia epixanthoides (Nyl.) Vitik. et al. – 5 (MK4455), on moss.

M. hypnorum (Lib.) Kalb & Hafellner – (Alstrup, 1986a; E. S. Hansen, 2006a).

M. tetramera (De Not.) Vitik. et al. – (E. S. Hansen, 2006b).

Mycoblastus affinis (Schaer.) T. Schauer – (E. S. Hansen, 2003).

M. alpinus (Fr.) Kernst. – 5, 17, 18, 39. (E. S. Hansen & Lund, 2003).

** M. fucatus (Stirt.) Zahlbr. – 6 (MK4466, 4472), on *Betula* sp.

M. sanguinarius (L.) Norman – 6 (ED), 14, 18, 22, 23, 24, 28. (Branth, 1887).

§ Mycocalicium subtile (Pers.) Szatala – 10, on *Betula verrucosa*. (Alstrup, 1982).

§ Naetrocymbe kentrospora (Branth) Alstrup comb. nov. – Basionym: *Verrucaria* (*Leptorhaphis*) *kentrospora* Branth, Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 1878: 250. Syn. *Arthopyrenia kentrospora* (Branth) Branth – 10 (VA7757), on

Betula sp. (Branth, 1887, 1892). This is the first report of the species in Greenland since it was described from loc. 7, and reported from loc. 1. The species is also known from Iceland.

§ N. PUNCTIFORMIS (Pers.) R. C. Harris – 6, 21, on *Betula* sp. (Alstrup, 1982; Branth, 1887).

NEOLAMYA PELTIGERAE (Mont.) Theiss. & Syd. – 4 (JK), on *Peltigera didactyla*. (Kocourková, 2009).

NEPHROMA ARCTICUM (L.) Torss. – 1–12. Common.

N. BELLUM (Spreng.) Tuck. – 6, 10. Common in *Betula* shrub.

N. EXPALLIDUM (Nyl.) Nyl. – 2–10, 12. Common.

N. ISIDIOSUM (Nyl.) Gyelnik – 6, 12. (Alstrup, 1982).

N. LAEVIGATUM Ach. – (Dahl, 1950).

N. PARILE (Ach.) Ach. – 2, 5, 6. Common.

N. RESUPINATUM (L.) Ach. – 5, 6. Common in *Betula* shrub.

NEUROPOGON SPHACELATUS (R. Br.) D. J. Galloway – (Alstrup, 1979).

*# NIESSLIA CLADONIICOLA D. Hawksw. & Gams – (E. S. Hansen & Alstrup, 1995).

**# NIGROPUNCTA RUGULOSA D. Hawksw. – 30, on *Bellemerea subsorediza*.

NORMANDINA PULCHELLA (Borrer) Nyl. – (Alstrup, 1979).

OCHROLECHIA ALBOFLAVESCENS (Wulf.) Zahlbr. – (E. S. Hansen, 1978).

O. ANDROGYNA (Hoffm.) Arnold s.lat. – 2–5, 9–12, on mosses and at the base of trees. The material referred to *O. androgyna* in Greenland may be heterogenous and may not belong to the species. The soralia vary in colour.

O. FRIGIDA (Swartz) Lynge – 1–12. This is one of the most common and most variable lichen species in Greenland, where it is often sorediate (apart from forma *lapuensis*). It may be heterogenous.

O. FRIGIDA f. LAPUENSIS (Vain.) Coppins – 6, 7, 9, 10, 14, 15, 17, 22, 24. Common in oceanic areas.

O. GRIMMIAE Lynge – 1 (ED), 3, 6 (ED), 9, 10, 12. Common on mosses (*Grimmia* sp.) in oceanic areas.

O. INAEQUATULA (Nyl.) Zahlbr. – 5 (JM 7468), on dead mosses and plant remnants. (Thomson, 1997).

* O. PARELLA (L.) A. Massal. – 17, on rock.

O. cfr. TARTAREA (L.) A. Massal. – 5 (WvB), 7 (ED), 19.

O. UPSALIENSIS (L.) A. Massal. – 2, 3–7. (E. S. Hansen, 1978; Thomson 1997).

OPHIOPARMA LAPPONICA (Räsänen) Hafellner & R. W. Rogers – 1–12. Common.

ORPHNIOSPORA MORIOPSIS (A. Massal.) D. Hawksw. – 1–12. Common.

PANNARIA HOOKERI (Sm.) Nyl. – 18, on rock. (Alstrup, 1979, 1986a; Branth, 1887; Dahl, 1950).

PARANECTRIA ALSTRUPII Zhurb. – 10 (MZ), on *Psoroma hypnorum*. (Zhurbenko, 2009).

PARMELIA FRAUDANS Nyl. – 6. (Thomson, 1984).

P. OMPHALODES (L.) Ach. – 1–12. Common.

P. SAXATILIS (L.) Ach. – 1–12. Common.

P. SULCATA Taylor – 1–12. Common.

PARMELIELLA TRIPTOPHYLLA (Ach.) Müll. Arg. – 1–12. Common.

PARMELIOPSIS AMBIGUA (Wulfen) Nyl. – 1–12. Common.

P. HYPEROPTA (Ach.) Arnold – 1–12. Common.

PELTIGERA APHTHOSA (L.) Willd. – 1–12. Common.

P. CANINA (L.) Willd. – 1–12. Common.

P. COLLINA (Ach.) Schrad. – 2, 5, 6, 10. Common in *Betula* shrubs.

P. DIDACTYLA (With.) J. R. Laundon – 1–12. Common.

P. EXTENUATA (Nyl. ex Vain.) Lojka – 3, 4 (JK, MK4400a), on soil. (E. S. Hansen & Lund, 2003).

P. KRISTINSSONII Vitik. – (E. S. Hansen & Lund, 2003).

P. LEPIDOPHORA (Nyl.) Vain. – 2–7, 10, 12. Common.

P. LEUCOPHLEBIA (Nyl.) Gyelnik – 1–12. Common.

P. MALACEA (Ach.) Funck – 2, 4–6, 10–12. Common.

P. MEMBRANACEA (Ach.) Nyl. – 3–5, 7, 9, 10 (VA7808, VA7814). Common.

P. NECKERI Müll. Arg. – 3, 4. (Dahl, 1950).

P. OCCIDENTALIS (E. Dahl.) Krist. – (Dahl, 1950).

* P. POLYDACTYLON (Neck.) Hoffm. – 4, 9, 10.

P. RUFESCENS (Weiss) Humb. – 1–12. Common.

P. SCABROSA Th. Fr. – 2, 4, 5, 7, 9–12. Common.

* P. SCABROSELLA Holt.-Hartv. – 4 (VA). Vitikainen (2008) reported the species from Greenland without citing a locality, but he kindly informed, that it is based on Lichenes Groenlandici Exsiccatae 548 (H), from Fiskenæsset further north.

P. VENOSA (L.) Hoffm. – 3–6, 10. Common.

[§ PERIDIOTHELIA FULIGUNCTA (Norman) D. Hawksw. – (E. S. Hansen, 2003). Doubtful record. Ac-

cording to Hawksworth (1985) the species is not reliably reported from other hosts than *Tilia* sp.].

Pertusaria bryontha (Ach.) Nyl. – 3–6, 10, 15, 24. (E. S. Hansen, 1978).

P. carneopallida (Nyl.) Anzi – 1 (ED). (Alstrup, 1982; Branth, 1887; E. S. Hansen & Lund, 2003). Rare on *Betula* and *Sorbus* in S Greenland, but more common on *Alnus* north of the present area.

** P. corallina (L.) Arnold – 7 (ED), 39 (1978), 44 (1980).

P. coriacea (Th. Fr.) Th. Fr. – 3, 10, 22, 35. (Alstrup, 1982; 1986a).

P. dactylina (Ach.) Nyl. – 1, 2, 5–12, 15. Common.

P. geminipara (Th. Fr.) Brodo – 3, 5–7, 10, 12. (E. S. Hansen, 1978; E. S. Hansen & Lund, 2003).

* P. glomerata (Ach.) Schaer. – 32.

P. lactea (L.) Arnold – 1, 5, 24, 33. Common.

P. oculata (Dicks.) Th. Fr. – 3, 5, 7–12. Common.

P. panyrga (Ach.) A. Massal. – 28, 38. (Branth, 1887; E. S. Hansen, 1978, 2006c).

**# Phacopsis doerfeltii Alstrup & P. Scholz – 6 (JM7507, dupl. in UGDA-L), on *Arctoparmelia centrifuga*. The species was only known from the type locality in Canada.

**# P. huuskonenii Räsänen – 4 (JK), on *Bryoria nitidula*.

P. oxyspora (Tul.) Triebel & Rambold – 2 (MK4336a), 3, 4 (WvB), on *Parmelia* spp. (Alstrup & Hawksworth, 1990).

§ Phaeocalicium compressulum (Nyl.) Alb. Schmidt – (Alstrup, 1982; E. S. Hansen, 1998). Common on *Alnus crispa*.

Phaeophyscia constipata (Nyl.) Moberg – 3 (MK4371a), 4. (Alstrup, 1986a; Moberg & Hansen, 1986).

P. decolor (Kashiw.) Essl. – 3 (MK4386), 4, 5 (VA7772). (Alstrup, 1979). Moberg & Hansen (1986) and Thomson (1984) included the species in *P. endococcina* (Körb.) Moberg, but the species is maintained by Esslinger (2004). The Greenlandic specimens are less regularly rosettic than Scandinavian material, and a red medulla has never been seen in Greenlandic material, although the species is common in SW Greenland.

P. kairamoi (Vain.) Moberg – (Alstrup, 1986a).

P. orbicularis (Neck.) Moberg – 3, on bark. (Dahl, 1950; E. S. Hansen, 1978; Moberg & E. S. Hansen, 1986).

P. sciastra (Ach.) Moberg – 1–7, 9, 10, 12. Common.

* Phaeorrhiza nimbosa (Fr.) H. Mayrhofer & Poelt – 21, on soil.

Phaeospora arctica Horáková & Alstrup – (Horáková & Alstrup, 1994).

*# P. parasitica (Lönnr.) Arnold – 5 (JM 7483), on *Lopadium pezizoideum*.

*# Phaeosporobolus alpinus R. Sant., Alstrup & D. Hawksw. – 2 (AS, VA), 4 (JK), 11 (WvB), on *Ochrolechia frigida*.

*# P. usneae D. Hawksw. & Hafellner – 4, 5 (JK), on *Lecidea turgidula* and *Cetraria sepincola*.

**# Phoma cladoniicola Diederich, Kocourk. & Etayo – 3 (WvB), on *Cladonia* sp., 5 (JK), on *C. macroceras*.

P. epiphyscia Vouaux – (Alstrup & Hawksworth, 1990).

P. aff. epiphyscia – 3 (MK4369, JM7564), on *Xanthoria elegans*.

Phoma sp. 1 – (JM 7452), on *Protoparmeliopsis muralis*. Pycnidia 130–140 µm, conidiogenous cells 4–5 µm in diam., conidia 5–6 × 2.5–3 µm.

Phoma sp. 2 – 6 (JM 7526), on *Peltigera leucophlebia*. Pycnidia 60–80 µm, conidia 2.5–4 × 1.5–2 µm. The fungus does not fit into *P. peltigerae*, nor into any *Phoma* species, growing on *Peltigerales* (fide Martinez & Hafellner, 1998; Hawksworth & Cole, 2004). A similar specimen on *P. canina* (Motiejūnaitė & Piterans, 1998) differs in pycnidia slightly larger 110–160 µm, and conidia slightly longer 4–5 × 1.5–2 µm. Further studies are needed to decide whether the specimens represent geographical or host-specific variation.

Phylliscum demangeonii (Moug. & Mont.) Nyl. – 2, 5–7, 9, 10, 12, 24, 25, 34. Common.

Physcia aipolia (Humb.) Fürnr. – (Dahl, 1950; E. S. Hansen, 1978).

P. caesia (Hoffm.) Fürnr. – 1–7, 9–12. Common.

P. dubia (Hoffm.) Lettau – 2–6, 10, 12. Common.

P. magnussonii Frey (*Physcia stellaris* sensu Dahl, 1950) – 3. (Alstrup, 1979; Dahl, 1950; Moberg & E. S. Hansen, 1986).

P. phaea (Tuck.) Thomson – 2–6, 9, 10, on rocks. (Dahl, 1950; Moberg & E. S. Hansen, 1986).

P. tenella (Scop.) DC. –12. (Dahl, 1950; Moberg & E. S. Hansen, 1986).

P. tenella var. marina (Nyl.) Lynge – 3 (VA, MK), on coastal rocks. (Alstrup, 1981; E. S. Hansen, 1978).

Physconia detersa (Nyl.) Poelt – 3, 6. (Alstrup, 1979; Dahl, 1950; Moberg & E. S. Hansen, 1986).

P. MUSCIGENA (Ach.) Poelt – 1–7, 10, 12. Common.

P. PERISIDIOSA (Erichsen) Moberg – 3. (Alstrup, 1981; Moberg & E. S. Hansen, 1986).

* PILOPHORUS DOVRENSIS (Nyl.) Timdal – 4 (ET), on soil.

PLACIDIUM LACHNEUM (Ach.) de Lesd. – 4, 18. Common.

P. NORVEGICUM (Breuss) Breuss – (Breuss & E. S. Hansen, 1988).

P. SQUAMULOSUM (Ach.) Breuss – 5 (JK), on soil. (Breuss & E. S. Hansen, 1988).

PLACOPSIS GELIDA (L.) Linds. – 2, 4–6, 10, 13, 18, 25, 29. Common.

* P. LAMBII Hertel & V. Wirth –10 (VA), 18, on rocks.

** PLACYNTHIELLA DASAEA (Stirt.) Tønsberg – 2 (MK4348a), 4 (MK4426), on mosses.

* P. ICMALEA (Ach.) Coppins & P. James – 3 (MK4348a), on decaying moss, 4, 5 (MK4436), on *Peltigera* sp., 5 (JK), on *Sphagnum* sp.

* P. OLIGOTROPHA (J. R. Laundon) Coppins & P. James – 5 (JK), on path.

P. ULIGINOSA (Schrad.) Coppins & P. James – 3–7, 10, 17. (Alstrup, 2004; Branth, 1887).

PLACYNTHIUM ASPERELLUM (Ach.) Trevis. – 1 (ED), 4–6, 10, 12, 18, 26. (Alstrup, 1984, 1986a; Dahl, 1950).

P. NIGRUM (Huds.) Gray – 4. (Alstrup, 1986a).

P. PANNARIELLUM (Nyl.) H. Magn. – 3. (Alstrup, 1979, 1986a; Dahl, 1950).

P. TANTALEUM (Hepp) Hue – (E. S. Hansen, 2006a).

PLATISMATIA GLAUCA (L.) W. L. Culb. & C. F. Culb. – 9, 10, 12. Common on moss in oceanic areas.

PLEOPSIDIUM CHLOROPHANUM (Ach.) A. Massal. – 7 (1978), 12, 33 (1978), 39 (1978). (E. S. Hansen, 1978, 2006c). Common.

POLYBLASTIA CRUENTA (Körb.) P. James & Swinscow – 15, 39, 41, on moist rock. (Thomson, 1997).

* P. CUPULARIS A. Massal. – 41.

P. HENSCHELIANA (Körb.) Lönnr. – (Alstrup, 1979).

** P. INUMBRATA (Nyl.) Arnold – 7 (ED).

* P. HYPERBOREA Th. Fr. – 41.

P. MELASPORA (Taylor) Zahlbr. (Alstrup, 1981).

P. SENDTNERI Kremp. (E. S. Hansen, 2006b).

P. TERRESTRIS Th. Fr. – 5. (Alstrup, 1986a, 1989; Thomson, 1997).

P. THELEODES (Sommerf.) Th. Fr. – (Alstrup, 1986a; E. S. Hansen, 1978).

POLYCHIDIUM MUSCICOLA (Sw.) Gray – 2, 4–6 10, 12. Common.

*# POLYCOCCUM aff. MICROSTICTICUM (Leight. ex Mudd) Arnold – 3 (MK4374), on brown *Rhizocarpon* sp.

*# P. RUGULOSARIUM (Linds.) D. Hawksw. – 4 (VA), on *Xanthoria elegans*.

*# P. SQUAMAROIDES (Mudd) Arnold – 12 (1978, VA), on *Placopsis gelida*.

P. TRYPETHELIOIDES (Th. Fr.) R. Sant. – 4 (JK, VA), on *Stereocaulon* sp. Common.

POLYCOCCUM sp. 1 – 7 (ED), on *Ionaspis lacustris*.

POLYCOCCUM sp. 2 – 12 (1978, VA), on *Umbilicaria cylindrica*.

POLYSPORINA SIMPLEX (Davies) Vězda – (Alstrup, 1986a).

*# P. SUBFUSCESCENS (Nyl.) K. Knudsen & Kocourk. – 18, on *Acarospora fuscata*.

POLYSPORINA sp. – 6 (ED). The specimen fits the species called *P. lapponica* by Foucard (2001) however, the type specimen of that species is a *Sarcogyne* (Knudsen & Kocorková, 2008). It is uncertain, whether another name is available for it.

PORINA MAMMILOSA (Th. Fr.) Vain. – (Branth, 1887; E. S. Hansen, 2006b).

* POROCYPHUS COCCODES (Flot.) Körb. – 12 (ED).

* PORPIDIA CINEREOATRA (Ach.) Hertel & Knoph – 5 (JK), on silicious rock.

P. CRUSTULATA (Ach.) Hertel & Knoph – (Alstrup, 1986a; E. S. Hansen, 2006a). Common.

P. FLAVICUNDA (Ach.) Gowan – 7 (ED), on silicious rock. (E. S. Hansen, 2006c; E. S. Hansen & Lund, 2003).

P. FLAVOCOERULESCENS (Hornem.) Hertel & A. J. Schwab – 3, 5, 6, 9–14, 17, 18, 20, 24, 27, 37. Common.

P. MACROCARPA (DC.) Hertel & A. J. Schwab – 6 (ED), 20, 24. (E. S. Hansen, 1978).

P. MELINODES (Körb.) Gowan & Ahti – 5, 10, 12, 22, on rock. Common.

P. OCHROLEMMA (Vain.) Brodo & R. Sant. – 5 (MK4444), 6 (MK 4491), on rock. (Alstrup & Hawksworth, 1990).

* P. RUGOSA (Taylor) Coppins & Fryday– 5 (JK), on sandstone at brook.

* P. SOREDIZODES (Lamy ex Nyl.) J. R. Laundon – 37, on silicious rock.

* P. SPEIREA (Ach.) Kremp. – 3, 17, 27.

** P. SUPERBA (Körb.) Hertel & Knoph – 3 (ED).

P. TUBERCULOSA (Sm.) Hertel & Knoph (E. S. Hansen, 1998).

*# PRONECTRIA ORNAMENTATA (D. Hawksw.) Lowen – 10 (VA), on *Peltigera didactyla*.

PROTOMICAREA LIMOSA (Ach.) Hafellner – 5 (JK), 12 (VA), on mosses. (E. S. Hansen, 1978; Thomson, 1997).

PROTOBLASTENIA RUPESTRIS (Scop.) Steiner – 2, 21. (Alstrup, 1986a).

** P. RUPESTRIS ssp. RHODOTHECIA Asta, Clauzade & Cl. Roux – 5 (JK), on rock.

PROTOPANNARIA PEZIZOIDES (Weber) P. M. Jørg. & S. Ekman – 1–12, on moss and plant remains. Common.

PROTOPARMELIA BADIA (Hoffm.) Hafellner – 1–7, 9–12, 14, 17, 26, 37. Common.

** P. LEPROLOMA (R. Sant.) Rambold & Poelt – 2, 3, 6, 7 (ED), 17, on *Lecidea praenubila*, later becoming independent lichen.

PROTOPARMELIOPSIS MURALIS (Schreb.) M. Choisy – 1–7, 10, 14, 16, 17, 21. Common.

*# PROTOTHELENELLA CROCEAE (Bagl. & Carestia) Hafellner & H. Mayrhofer – 5 (JK), on *Solorina crocea*.

*# P. SPHINCTRINOIDELLA (Nyl.) H. Mayrhofer & Poelt – 10 (VA), on *Peltigera* sp.

PSEUDEPHEBE MINUSCULA (Arnold) Brodo & D. Hawksw. – 1–12. Common.

P. PUBESCENS (L.) M. Choisy – 1–12. Common.

PSEUDOSAGEDIA CHLOROTICA (Ach.) Hafellner & Kalb – (Alstrup, 1986a).

P. GUENTHERI (Flot.) Hafellner & Kalb – (E. S. Hansen, 2006a).

PSILOLECHIA LEPROSA Coppins & Purvis – (Coppins & Purvis, 1987).

PSORA DECIPIENS (Hedw.) Hoffm . – 2, 4, 5. (Alstrup, 1986a; Hansen, 1978). On soil in xerothermic localities.

P. GLOBIFERA (Ach.) A. Massal. – 5 (ET, JK), 14, 18. (Alstrup, 1986a; Branth, 1887; E. S. Hansen, 1978).

P. RUBIFORMIS (Ach.) Hook. – 2–5, 8–10, 12, 24. Common.

PSORINIA CONGLOMERATA (Ach.) Gotth. Schneid. – 7 (1978), 12 (1978), 39 (1978, 1980), 44 (1980). Common within the Ilimaussaq-intrusion. (Thomson, 1997).

PSOROMA HYPNORUM (Vahl) S. F. Gray – 1–12. Common.

PSORULA RUFONIGRA (Tuck.) Gotth. Schneid. – 5 (ET, JK). (Alstrup, 1986a).

PUNCTELIA STICTICA (Duby) Krog (*Parmelia dubia* sensu Dahl 1950). (Alstrup, 1979; Dahl, 1950).

PYCNORA LEUCOCOCCA (R. Sant.) R. Sant. – 2 (MK4344a), on *Betula* sp. (Alstrup, 2004).

* PYCNOTHELIA PAPILLARIA (Ehrh.) Dufour – 11 (VA, JK, MZ).

*# PYRENIDIUM ACTINELLUM Nyl. – 5 (WvB), on *Lecanora polytropa*, 6 (JM7510), on *Solorina crocea*.

P. DAHLII Alstrup – (Alstrup, 2009).

PYRENOPSIS FURFURACEA (Nyl.) Leight. – 3 (ED), 12. (Alstrup, 1979; Dahl, 1950; E. S. Hansen, 2006c).

P. GRUMULIFERA Nyl. – 6 (ED), 11 (VA7759, cfr.). (Alstrup, 1979, 1986a).

P. MYRIOSPORA E. Dahl – (Dahl, 1950; Thomson, 1997).

P. SUBAREOLATA Nyl. – (Dahl, 1950; Thomson, 1997).

** PYRRHOSPORA RUBIGINANS (Nyl.) P. James & Poelt – 1 (ED), on rock.

*# RACIBORSKIOMYCES PELTIGERICOLA (D. Hawksw.) M. E. Barr – 2 (JM), 3 (AS), 4 (JK), 5 (JK, VA), 6 (JM), 10 (VA, WvB), on *Peltigera* spp., at loc 5 (JK) also on *Solorina crocea*.

RAMBOLDIA CINNABARINA (Sommerf.) Kalb, Lumbsch & Elix – 38, on *Betula*. (Branth, 1887; Thomson, 1997).

*# REFRACTOHILUM GALLIGENUM D. Hawksw. – 4, 10 (VA), on *Nephroma parile* and *N. expallidum*.

*# R. PELTIGERAE (Keissl.) D. Hawksw. – 4 (VA), on *Peltigera didactyla*.

**# RHAGADOSTOMA BREVISPORUM (Nav.-Ros. & Hladun) Nav.-Ros. – 5 (JM7477), on *Peltigera* sp.

R. LICHENICOLA (de Not.) Keissl. – 4, 5, 9, 10, 12, on *Solorina crocea*. Common.

RHEXOPHIALE RHEXOBLEPHARA (Nyl.) Hellb. – 5, 12, 15. (Alstrup, 1986a; Branth, 1887).

RHIZOCARPON ALPICOLA (Anzi) Rabenh. – between 12 and 13 (1978). (Branth, 1887).

R. BADIOATRUM (Spreng.) Th. Fr. – 6 (ED), 12 (VA7813), 14, 17, 22, 28. Common.

R. BOLANDERI (Tuck.) Herre – 10, 14, 25. (Alstrup, 1986; E. S. Hansen, 2006c).

R. CHIONOPHILUM Th. Fr. – (E. S. Hansen, 1978; Lynge, 1932).

R. CINEREOVIRENS (Müll. Arg.) Vain. – (Alstrup, 1986a).

R. CONCENTRICUM (Davies) Beltr. – (Thomson, 1997).

R. COPELANDI (Körb.) Th. Fr. – 33. (Alstrup, 1987; E. S. Hansen, 1978; E. S. Hansen & Lund, 2003; Lynge, 1932).

R. CRYSTALLIGENUM Lynge – (E. S. Hansen, 1978).

R. DESTRUCTANS Alstrup (Alstrup & Hawksworth, 1990).

R. DISPORUM (Hepp) Müll. Arg. – (Alstrup, 1979; E. S. Hansen, 1978, 2006c; Lynge, 1932).

R. DISTINCTUM Th. Fr. – (E. S. Hansen, 1978).

R. EUPETRAEOIDES (Nyl.) Blomb. & Forssell –14. (Alstrup, 1986a; Thomson, 1997).

R. EUPETRAEUM (Nyl.) Arnold – 25. (E. S. Hansen, 1978).

* R. EXPALLESCENS Th. Fr. – 39.
R. FERAX H. Magn. – (E. S. Hansen, 2006a).
* R. FRIGIDUM Räsänen – 3 (ED), on rock. Some of the references of *R. geographicum* probably belong here.
R. GEMINATUM Körb. – 3, 15, 19, 21, 25. Common.
R. GEOGRAPHICUM (L.) DC. – 2, 4–7, 12, 18, 22. Common.
R. GRANDE (Flörke) Arnold – 2 (MK4357), on small stone. Common.
R. HOCHSTETTERI (Körb.) Vain. – (Alstrup, 1987; E. S. Hansen, 1978; Lynge, 1932).
R. INARENSE (Vain.) Vain. – 6, 24, 33. (Alstrup, 1986; E. S. Hansen & Lund, 2003; E. S. Hansen, 2006c).
* R. INTERMEDIELLUM Räsänen – 39.
R. JEMTLANDICUM Malme – (E. S. Hansen, 1978, 2006c).
R. LAVATUM (Fr.) Hazsl. – 7 (ED), 14, 15, 17. (E. S. Hansen, 2006c).
R. LECANORINUM Anders – (E. S. Hansen, 2006c).
R. LEPTOLEPIS Anzi – (Alstrup, 2006a).
** R. LINDSAYANUM Räsänen – 3 (1980).
R. MACROSPORUM Räsänen – (Alstrup, 1986a; Thomson, 1997).
R. NARSSAQENSIS Alstrup – (Alstrup & Hawksworth, 1990).
[R. OBSCURATUM (Ach.) A. Massal. – 14. (E. S. Hansen, 1978; E. S. Hansen & Lund, 2003). See remark under *R. reductum*.]
* R. OEDERI (Weber) Körb. – 15, on ferrugineous rock.
R. PARVUM Runemark – (Alstrup, 1986a).
R. PETRAEUM (Wulfen) A. Massal. – (Branth, 1887).
R. POLYCARPUM (Hepp) Th. Fr. – (E. S. Hansen, 1978; Thomson, 1997).
R. PRAEBADIUM (Nyl.) Zahlbr. – (E. S. Hansen & Lund, 2003; E. S. Hansen, 2006c).
* R. PUSILLUM Runemark – 4, on *Sporastatia testudinea*.
R. REDUCTUM Th. Fr. – (Branth, 1887). Some records of *R. obscuratum* belong here.
R. RIPARIUM Räsänen – (Thomson, 1997).
R. RITTOKENSE (Hellb.) Th. Fr. – 5, 7, 9–13, 17, 20, 22, 24, 25, 27, 28, 31. Common.
** R. RORIDULUM (Th. Fr.) H. Olivier – 15, on silicious rock.
R. SUBGEMINATUM Eitner – (Alstrup, 1986a).
R. SUBMODESTUM (Vain.) Vain. – (Alstrup, 1987).
R. SUBTILE Runemark – (Lynge, 1932; Thomson, 1997).
R. cfr. SUOMIENSE Räsänen – 2 (MK4338a), on rock.
R. SUPERFICIALE (Schaer.) Vain. – (Alstrup, 1979, 1986; E. S. Hansen, 2006c). Common.
R. TETRAMERUM (Vain.) Vain. – (Alstrup, 1986).
RHIZOPLACA CHRYSOLEUCA (Sm.) Zopf – 1, 4, 6, 16. Common.
** R. GLAUCOPHANA (Nyl. ex Hesse) W. A. Weber – 3 (ED), on rock. It is unexpected to find this Sonoran desert area species in Greenland. However, the illustration and description in Ryan (2002) leave no doubt about the identity.
R. MELANOPHTHALMA (DC.) Leuckert & Poelt – 1–13, 26. Common.
*# RHYMBOCARPUS NEGLECTUS (Vain.) Diederich & Etayo – 5 (MK4447, JK), 20 (VA), 41, on *Lepraria neglecta*.
RIMULARIA FURVELLA (Mudd) Hertel & Rambold – 4–7, 23, 24, 28, 37, on *Rhizocarpon geographicum*, *Porpidia flavocoerulescens* and other crustose lichens on rock. (Alstrup, 1986a).
** R. FUSCOSORA Muhr & Tønsberg – 6 (MK4462a), on *Betula* sp.
R. IMPAVIDA (Th. Fr.) Hertel & Rambold – 4, 5, 7, 10, 12, 20. Common.
RINODINA ARCHAEA (Ach.) Arnold – 24. (Alstrup, 1982a; E. S. Hansen, 1984, 2006c).
R. ARNOLDII H. Mayrhofer & Poelt – (Mayrhofer & Sheard, 1988).
R. BISCHOFFII (Hepp) A. Massal. – 17. (Alstrup, 1986a).
R. CACUMINUM (Th. Fr.) Malme – 1–3, 5–7, 17. (E. S. Hansen & Lund, 2003; Thomson, 1997). Common on coastal rocks.
R. CALCIGENA (Th. Fr.) Lynge – (Alstrup, 1986a; Mayrhofer & Sheard, 1988).
R. CINNAMOMEA (Th. Fr.) Räsänen – 27, on soil. (Alstrup, 1986a).
R. CONRADII Körb. – (Alstrup, 1982a; Branth, 1892).
R. ENDOPHRAGMIA I. M. Lamb – 3 (MK4366, dupl. in GZU), on rock. (Alstrup & Hawksworth, 1990; E. S. Hansen, 1984).
** R. GENNARII Bagl. –3 (VA7723, with *Anema nummularium*).
R. MILVINA (Ach.) Th. Fr. – 3 (VA7710, with *Squamarina nivalis*). (E. S. Hansen, 1978).
R. MNIAREA (Ach.) Körb. – 3, 4, 5. (Thomson, 1997).
R. OLIVACEOBRUNNEA C. W. Dodge & G. E. Baker (incl. R. *sorediicola* Degel.) – 4 (JK), on *Lobaria scrobiculata*, 5 (JM7463), on *Nephroma expallidum*. (Alstrup & Hawksworth, 1990).
* R. PARASITICA H. Mayrhofer & Poelt – 3 (VA7722), on *Schaereria fuscocinerea*.

* R. roscida (Sommerf.) Arnold – 5 (JM 7523), on dead mosses and plant remnants.
** R. septentrionalis Malme – 4 (MK4398), on moss, (MK4428, dupl. in GZU) on *Betula glandulosa*, 6 (MK4486), on wood.
R. turfacea (Wahlenb.) Körb. – 18, 22, 23. Common.
Ropalospora lugubris (Sommerf.) Poelt – (Thomson, 1997).
Rosellinіopsis ventosa (Rostrup) Alstrup – (Alstrup, 2004).
Rosellinula frustulosae (Vouaux) R. Sant. – 5 (VA) on *Lecanora argopholis*. (Alstrup, 1981).
**# Sagediopsis aquatica (B. Stein) Triebel – 5 (JK), on *Koerberiella wimmeriana*.
S. barbara (Th. Fr.) R. Sant. & Triebel – (Alstrup & Hawksworth, 1990).
S. campsteriana (Linds.) D. Hawksw. & R. Sant. – (Alstrup & Hawksworth, 1990).
* Santessoniella arctophila (Th. Fr.) Henssen – 4 (MK4421), 5 (AS, JM), 6 (JM), on moss.
Sarcogyne clavus (DC.) Kremp. – 3. (Alstrup, 1986a).
* S. privigna (Ach.) A. Massal. – 15, on rock.
**# Sarcopyrenia gibba Nyl. – 25, on cfr. *Lecanora polytropa* (sterile, yellowish areoles).
Schaereria cinereorufa (Schaer.) Th. Fr. – 4, 15, 18, 24, 28. (Alstrup, 1986a; Branth, 1887).
S. endocyanea (Stirt.) Hertel & Gotth. Schneid. – (Hertel, 1981).
S. fuscocinerea (Nyl.) Clauzade & Cl. Roux – 3 (VA7716, VA7722), 20, 23, 24, 27. Common.
S. parasemella (Nyl.) Lumbsch – (E. S. Hansen, 2006b).
Sclerococcum sphaerale (Ach.) Th. Fr. – (Alstrup & Hawksworth, 1990).
Scoliciosporum umbrinum (Ach.) Arnold – (Branth, 1887).
Scutula cladoniicola Alstrup & D. Hawksw. – (Alstrup & Hawksworth, 1990).
*# S. heerii (Hepp) P. Karst. – 6 (WvB), on *Peltigera* sp.
S. stereocaulorum (Anzi) Körb. – 2 (VA), on *Stereocaulon incrustatum*, 4 (AS), 41, on *Stereocaulon* sp. (E. S. Hansen, 2003).
S. tuberculosa (Th. Fr.) Rehm – (Alstrup & Hawksworth, 1990).
*# Skyttella mulleri (Willey) D. Hawksw. & R. Sant. – 2 (JM 7529), on *Peltigera didactyla*.
Solorina bispora Nyl. – 4, 5. (Alstrup & Hawksworth, 1990; Dahl, 1950).
S. crocea (L.) Ach. – 1–12. Common.
S. octospora (Arnold) Arnold – (Thomson, 1984).
S. saccata (L.) Ach. – 3, 5 (VA7800, VA7802, MK4457). (Dahl, 1950; K. Hansen, 1971).
S. spongiosa (Sm.) Anzi – 10, 39. (Dahl, 1950).
Sphaerellothecium araneosum (Rehm ex Arnold) Zopf – 1–12, on *Ochrolechia* and *Pertusaria* spp. Common.
**# S. atryneae (Arnold) Cl. Roux & Triebel – 22, on *Lecanora rupicola*.
S. cladoniae (Alstrup & Zhurb.) Hafellner – 3 (WvB), on *Cladonia* sp.; 4 (JK), on *C. pocillum*; 5 (JK), on *C. macroceras*. (Zhurbenko & Alstrup, 2004).
S. cladoniicola E. S. Hansen & Alstrup – (E. S. Hansen & Alstrup, 1995).
*# S. minutum Hafellner – 3 (AS), 5–6, 8 (WvB), 22, on *Sphaerophorus* spp.
**# S. stereocaulorum Zhurb. & Triebel – 5 (AS), on *Stereocaulon* sp.
Sphaerellothecium sp. – 12 (WvB), on *Lecidoma demissum*.
Sphaerophorus fragilis (L.) Pers. – 1–12. Common.
S. globosus (Huds.) Vain. – 1–12. Common.
Spilonema revertens Nyl. – 4–7, 10, 12, 13. (Alstrup, 1979).
Sporastatia polyspora (Nyl.) Grummann – 13. (Thomson, 1997).
S. testudinea (Ach.) A. Massal. – 4, 5, 10, 30. Common.
Sporodictyon schaererianum A. Massal. – 2 (SH). (Savic & Tibell, 2007).
S. terrestris (Th. Fr.) S. Savic & Tibell – 4 (SS). (Savic & Tibell, 2007).
** Squamarina nivalis Frey & Poelt – 3, 5 (VA7710, VA7727).
Staurothele arctica Lynge – (Alstrup, 1986a).
S. areolata (Ach.) Lettau – 3, 14, 17. (Alstrup, 1979, 1986a).
S. drummondii (Tuck.) Tuck. – 21, on moist rock. (Alstrup, 1987).
S. fissa (Taylor) Zwackh – 18, 33. (Alstrup, 1986a; E. S. Hansen, 2006c).
* S. fuscocupraea (Nyl.) Zschacke – 3, 42 (both in 1980).
Steinia geophana (Nyl.) Stein – 2 (JM), 4, 5 (JK), 6 (JM), on soil. (Alstrup, 1986b).
Stereocaulon alpinum Laurer – 1–12. Common.
S. arcticum Lynge – 5. (Dahl, 1950; E. S. Hansen & Lund, 2003; K. Hansen, 1971; E. S. Hansen, 2006c).

S. ARENARIUM (Savicz) I. M. Lamb – 4, 11. (E. S. Hansen, 1978, 2006c; E. S. Hansen & Lund, 2003).

S. BOTRYOSUM Ach. – 10, 12. (Dahl, 1950).

* S. CAPITELLATUM H. Magn. – 4 (JK, VA, WvB), in dwarf shrub heath.

* S. CONDENSATUM Hoffm. – 4–7, 10–12.

S. CUMULATUM (Sommerf.) Timdal – (Branth, 1887).

S. DACTYLOPHYLLUM Flörke – 12 (VA7768, VA7769). (Dahl, 1950).

S. DEPRESSUM (Frey) I. M. Lamb – 4 (VA). (Alstrup, 1986a).

S. GLAREOSUM (Savicz) H. Magn. – 3, 4. (E. S. Hansen, 1978, 2006c; K. Hansen, 1971).

* S. GRANDE (H. Magn.) H. Magn. – 2 (MK), on mosses.

S. GROENLANDICUM (E. Dahl) I. M. Lamb – (Dahl, 1950).

* S. INCRUSTATUM Flörke – 2, 4, 6, 10 (VA).

S. LEUCOPHAEOPSIS (Nyl.) P. James & Purvis – 18. (Alstrup, 1986a).

S. NANODES Tuck. – 2. (Alstrup, 1979, 1986a).

S. PASCHALE (L.) Hoffm. – 1–12. Common.

** S. PILEATUM Ach. – 11 (VA).

S. RIVULORUM H. Magn. – (Dahl, 1950; E. S. Hansen, 1978; 2006c; E. S. Hansen & Lund, 2003).

S. SPATHULIFERUM Vain. – 9. (Alstrup, 1979, 1986a).

** S. SUBCORALLOIDES (Nyl.) Nyl. – 7, 20, 39 (all in 1978 or 1980).

* S. TENNESSEENSE H. Magn. – 39.

S. TOMENTOSUM Fr. incl. var. ALPESTRE Flot. – 4–6, 9–12. Common.

S. TORNENSE (H. Magn.) P. James & Purvis – 18. (Alstrup, 1986a).

S. VESUVIANUM Pers. – 1–12. Common.

S. VESUVIANUM var. SYMPHYCHEILEOIDES I. M. Lamb – 5, 7, 9, 10, 12. Common in moist areas.

STIGMIDIUM ARCTOPARMELIAE Alstrup – 38. (Alstrup, 2009).

S. CONSPURCANS (Th. Fr.) Triebel & R. Sant. – 3 (JM7549), 5 (JK), 22, 24, on *Psora rubiformis*. (Alstrup & Hawksworth, 1990).

S. EUCLINE (Nyl.) Vězda – 14, 23, on *Pertusaria lactea*. (Alstrup et al., 2008).

*# S. FRIGIDUM (Sacc.) Alstrup & D. Hawksw. – 4, 10 (JK), on *Thamnolia vermicularis* var. *subuliformis*.

**# S. JOERGENSENII R. Sant. – 10 (WvB), on *Omphalina hudsoniana*.

S. MICROCARPUM Alstrup & J. C. David – 5, 10 (VA), on *Flavocetraria cucullata*. (Alstrup, 2004).

**# S. MITCHELII Cl. Roux & Bricaud – 3 (VA), on *Protopannaria pezizoides*.

**# S. MYCOBILIMBIAE Cl. Roux, Triebel & Etayo – 3 (MK4372), on *Bilimbia sabuletorum*.

*# S. PELTIDEAE (Vain.) R. Sant. – 5–7, 10 (VA), on *Peltigera* spp.

**# S. PUMILUM (Lettau) Matzer & Hafellner – 4 (JK), on *Physcia phaea*.

*# S. SOLORINARIUM (Vain.) D. Hawksw. – 3 (AS), on *Solorina saccata*.

*# S. TABACINAE (Arnold) Triebel – 4 (WvB), on *Toninia squalida*.

**# TAENIOLELLA VERRUCOSA M. S. Christ. & D. Hawksw. – 23, on *Rhizocarpon geographicum*.

TEPHROMELA ATRA (Huds.) Hafellner – 1–7, 9–12. Common.

THALLINOCARPON PULVINATUM E. Dahl – (Dahl, 1950).

THAMNOLIA VERMICULARIS (Sw.) Ach. ex Schaer. – (Thomson, 1984; E. S. Hansen, 2006c).

T. VERMICULARIS var. SUBULIFORMIS (Ehrh.) Schaer. – 1–12. Common.

THELIDIUM AENOVINOSUM (Anzi) Arnold – (Alstrup, 1986a).

** T. ZWACKHII (Hepp) A. Massal. – 39.

THELIGNYA GROENLANDICA (E. Dahl) Henssen – (Dahl, 1950).

T. LIGNYOTA (Wahlenb.) P. M. Jørg. & Henssen – 5, 7, 10. (Alstrup, 1986a, 1989; Dahl, 1950).

* THELOCARPON EPIBOLUM Nyl. – 2–7, 9, 10, 12, mostly on *Peltigera aphthosa*, at loc. 4, 5 and 10 also on *Solorina crocea*.

** T. IMPRESSELLUM Nyl. – 4 (MK4408, JK, JM7499) on soil.

** THROMBIUM BASALTICUM Zschacke – 23, on rock. The spores measure 26–29 × 11–12 µm.

* TONINIA ALUTACEA (Anzi) Jatta – 3 (ET).

T. CANDIDA (Weber) Th. Fr. – (Alstrup, 1986a).

T. ROSULATA (Anzi) H. Olivier – (Timdal, 1992).

** T. RUGINOSA (Tuck.) Herre ssp. RUGINOSA – 5 (JK, JM), on soil.

T. SEDIFOLIA (Scop.) Timdal – 2, 5, 21, 23, 26, 32, 33. Common.

T. SQUALESCENS (Nyl.) Th. Fr. – 5. (Alstrup, 1979).

T. SQUALIDA (Ach.) A. Massal. – 4, 5, 10, 17, 31. (Branth, 1887; Timdal, 1992).

** TRAPELIA INVOLUTA (Taylor) Hertel – 18, on stone.

Trapeliopsis flexuosa (Fr.) Coppins & P. James – 5, 6, 10. (Alstrup, 1989).

T. granulosa (Hoffm.) Lumbsch – 3, 4, 6, 7, 9–12, 15, 17, 18, 23. Common.

Tremella caloplacae (Zahlbr.) Diederich – 3 (MK4385a), on *Xanthoria sorediata*. (Diederich, 2007).

Tremolecia atrata (Ach.) Hertel – 1–12. Common.

Tuckermannopsis chlorophylla (Willd.) Hale – 4–6, on *Betula*. (Alstrup, 1982; Branth, 1887; K. Hansen, 1971).

Umbilicaria arctica (Ach.) Nyl. – 1–12. Common.

U. arctica var. subarctica (Nyl.) Savicz – 9 (VA). (Dahl, 1950).

U. cinereorufescens (Schaer.) Frey – 5. (Dahl, 1950; E. S. Hansen, 1978; E. S. Hansen & Lund, 2003).

U. cylindrica (L.) Duby incl. var. delisei Nyl. – 1–12. Common.

U. decussata (Vill.) Frey – 5. (Dahl, 1950; E. S. Hansen, 1978; K. Hansen, 1971).

U. deusta (L.) Baumg. – 2, 5, 6. Common.

U. havasii Llano – 2, 4–8, 10, 12. Common.

U. hirsuta Ach. – 2. (Branth, 1887; Dahl, 1950; E. S. Hansen, 1978; K. Hansen, 1971).

U. hyperborea (Ach.) Hoffm. – 1–12. Common.

U. lyngei Schol. – (Dahl, 1950).

U. mammulata (Ach.) Tuck. – (Dahl, 1950; Thomson, 1984).

U. nylanderiana (Zahlbr.) H. Magn. – (E. S. Hansen, 2006).

U. polyphylla (L.) Hoffm. – 5, 6, 10. Common.

U. proboscidea (L.) Schrad. – 1–7, 9–12. Common.

U. rigida (Du Rietz) Frey – 4, 5. (Czeczuga & Alstrup, 1987; Dahl, 1950; E. S. Hansen, 2006c).

U. scholanderi (Llano) Krog – (Alstrup, 1979, 1986b).

U. torrefacta (Lightf.) Schrad. – 1–12. Common.

U. vellea (L.) Ach. – 2–7, 9–12. Common.

U. virginis Schaer. – (Dahl, 1950; E. S. Hansen & Lund, 2003; E. S. Hansen, 2006c).

Unguiculariopsis groenlandiae (Alstrup & D. Hawksw.) Etayo & Diederich – 3, refound at the type locality on *Caloplaca flavocitrina*. (Alstrup & Hawksworth, 1990).

Varicellaria rhodocarpa (Körb.) Th. Fr. – 2 (MK4339d), on *Betula*, 6 (MK4485), on wood, 13, 21. (Alstrup, 1982).

Verrucaria acrotella Ach. – (E. S. Hansen, 2006a).

V. aethiobola Wahlenb. – 20, 33, 39, 41. (Thomson, 1997).

V. ceuthocarpa Wahlenb. – (Branth, 1887).

V. cfr. cinereorufa Schaer. – 43.

V. gudbrandsdalensis H. Magn. – (Alstrup, 1986a).

* V. margacea (Wahlenb.) Wahlenb. – 3, 4 (JM7569, 7498), on stones in streams, 7 (cfr., ED), thallus pale brown, smooth, cracked in the center, involucrellum distinct around ostiole only, perithecia immersed, spores 25–30 × 12–15 µm, with rounded ends, halonate, excipulum thin, hyaline. (Thomson, 1997).

V. maura Wahlenb. – 1, 2, 7, 10, 23. Common.

V. mucosa Wahlenb. – 1, 10. (Branth, 1887).

V. rupestris Schrad. – (Thomson, 1997).

V. striatula Wahlenb. – (Thomson, 1997; E. S. Hansen, 2006c).

* V. umbrinula Nyl. – 7 (ED).

Vestergrenopsis elaeina (Wahlenb.) Gyelnik – (Alstrup, 1986a, b).

V. isidiata (Degel.) E. Dahl – 2, 4–6, 10, 12, 15, 21. Common.

Vouauxiella caloplacae Alstrup – (Alstrup, 1993).

Vouauxiomyces sp. – anamorph of *Abrothallus parmeliarum* – 10 (WvB), on *Parmelia saxatilis*. It is similar to *V. santessonii*, the supposed anamorph of *Abrothallus cetrariae* which is confined to *Platismatia*.

Vulpicida pinastri (Scop.) J.-E. Mattson & M. J. Lai – 2, 4–6, 9, 10, 12. Common.

*# Weddelllomyces tartaricola (Linds.) Alstrup & D. Hawksw. – 6 (WvB), 24, on *Ochrolechia frigida*.

Xanthomendoza borealis (R. Sant. & Poelt) Søchting et al. – 2, 3 (MK4360), 6 (ED), 10 (VA7736), 24, on rocks.

Xanthoparmelia conspersa (Ach.) Hale – 3, 5, 6, 10, 12. Common.

X. pulla (Ach.) O. Blanco et al. – 3 (1980, VA). (E. S. Hansen, 1878).

X. verruculifera (Nyl.) O. Blanco et al. – (Dahl, 1950).

Xanthoria candelaria (L.) Th. Fr. – 1–7, 9–12. Common.

X. elegans (Link) Th. Fr. – 1–12. Common.

X. sorediata (Vain.) Poelt – 1–6, 10–12, 14, 21, 33, fertile at loc. 3. Common.

Xylographa parallela (Ach. ex Fr.) Fr. – 3, 4, 6, 10, on lignum. (Alstrup, 1982; Branth, 1892; E. S. Hansen, 2006a).

** X. truncisedа (Th. Fr.) Minks ex Redinger – 10 (VA), on lignum.

** X. VITILIGO (Ach.) J. R. Laundon – 4 (VA), on lignum.

**# ZWACKHIOMYCES COEPULONUS (Norman) Grube & R. Sant. – 4 (VA), on *Xanthoria elegans*.

[# Z. SPHINCTRINOIDES (Zwackh) Grube & Hafellner – (Alstrup & Hawksworth, 1990). Doubtful report, as *Didymella sphinctrinoides*].

**# Z. LACUSTRIS (Arnold) Orange – 5 (JK), on *Ionaspis lacustris*.

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