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Records of new and interesting *Peltigera* species for Greenland

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Ten new species of *Peltigera* are reported from Greenland. *Peltigera kristinssonii* and *P. membranacea* are reported as new to South East Greenland, *P. neckeri* as new to North West Greenland, and *P. occidentalis* and *P. ponojensis* as new to Central West and South East Greenland.

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Introduction

A revision of the Greenland *Peltigera* species by Orvo Vitikainen in recent years has provided new information on several taxa. Of the 20 species of *Peltigera* reported by Vitikainen (2007), ten are new to the lichen flora of Greenland, and five species are new to major regions of Greenland. New localities for all of these taxa are provided here. The nomenclature follows Vitikainen (2007). All specimens dealt with in the following are deposited at the Botanical Museum, University of Copenhagen.

The species

New to Greenland

Peltigera behringiana Gyeln.

Specimen examined: West Greenland. Kronprinsens Ejlande, Oqaq, 68°59'N, 53°27'W, alt. 10 m, among mosses on moist gneissic rock, 20 July 1949, P. Gelting s. n.

Peltigera castanea Goward et al.

Specimens examined: West Greenland. Uunartoq Fjord, 60°37'N, 45°15'W, alt. 10 m, on mosses, 15 Aug. 1962, K. Hansen 1594; Neria, 61°38'N, 48°34'W, alt. 100 m, on mosses, 16 July 1965, K. Hansen 1599; Disko Arctic Station, Godhavn, on mosses on gneissic rock near watercourse, 20 Sept. 1949, P. Gelting s. n. **East Greenland.** Ikaasaulaq, 65°59'N, 37°26'W, on plant remains, 12 July 1970, E. S. Hansen 3711; Zackenberg, 74°30'N, 20°30'W, on soil, 25 July 2015, E. S. Hansen s. n.

Peltigera extenuata (Nyl. ex Vain.) Lojka

Selected specimens examined: West Greenland. Torssukatak, 60°56'N, 46°48'W, alt. 100 m, on mosses, 23 Aug. 1962, K. Hansen s. n.; Narssarsuaq, 61°10'N, 45°26'W, on mosses, 18 July 1969, J. Andersen & E. S. Hansen 411; Nigerdleq, 62°04'N, 49°20'W, alt. 50 m, 8 July 1965, K. Hansen 1597; Disko Arctic Station, Godhavn, 69°15'N, 53°32'W, alt. 4 m, on mosses, 27 July 1951, P. Gelting 13963; Disko, Kangikitleq, 69°27'N, 53°30'W, alt. 6 m, on mosses on slope near watercourse, 15 Aug. 1949, P. Gelting s. n.; Disko, Mellemfjord, Narssarsuaq, 69°44'N, 54°38'W, alt. 6 m, on mosses on slope near watercourse, 22 Aug. 1949,

P. Gelting s. n.; Disko, Nordfjord, 69°58'N, 54°27'W, alt. 70 m, on mosses, 15 Aug. 1975, V. Alstrup 101; Disko, Qutdligssat, 70°06'N, 53°02'W, alt. 180 m, on mosses on slope near watercourse, 27 July 1950, P. Gelting s. n. **East Greenland**. Eqalungmiut, 63°28'N, 41°55'W, on mosses, 25 July 1932, P. F. Scholander s. n.; Zackenberg, 74°30'N, 20°30'W, on soil, 24 July 2015, E. S. Hansen s. n.

Peltigera frippii Holt.-Hartw.

Specimen examined: **West Greenland**. Godthåbsfjord, Ilualik, Igdlorssuit, 64°47'N, 50°35'W, alt. c. 100 m, on mosses in lichen heath, 16 July 1976, V. Alstrup 76043; Nuussuaq, Saqqaq, 70°03'N, 52°08'W, on mosses, 4 Aug. 1974, N. U. Hansen s. n.

Peltigera hymenina (Ach.) Delise

Specimen examined: **West Greenland**. Maajut, 61°05'N, 45°31'W, on soil, 17 July 1969, J. Andersen & E. S. Hansen 380.

Peltigera latiloba Holt.-Hartw.

Specimens examined: **West Greenland**. Narssarsuaq, 61°10'N, 45°26'W, among mosses in *Betula pubescens* thicket, 21 Sept. 1953, P. Gelting 21235c; Christianshåb, Kangersuneq, 68°49'N, 50°47'W, alt. 20 m, among mosses in moist *Betula nana* vegetation, 29 July 1949, P. Gelting s. n.; Disko, Kangikitleq, 69°26'N, 53°30'W, alt. 10 m, on mosses in fen, 10 Aug. 1950; Disko, Qeqertaq, 69°30'N, 54°05'W, alt. 10 m, on mosses in fen, 12 Aug. 1951, P. Gelting 14264a; Disko, Avangnarput, 69°35'N, 53°50'W, on mosses in fen, 27 Aug. 1949, P. Gelting s. n.

Peltigera lyngei Gyeln.

Specimen examined: **West Greenland**. Disko, Søndre Laksebugt, 69°19'N, 53°54'W, alt. 15 m, on mosses in fen, 5 Sept. 1951, P. Gelting 15574.

Peltigera monticola Vitik.

Specimen examined: **West Greenland**. Narssaq Fjeld, 60°55'N, 46°03'W, on mosses, 12 July 1937, E. Dahl s. n.

Peltigera praetextata (Flörke ex Sommerf.) Zopf

Specimens examined: **West Greenland**. Torssukatak, 60°56'N, 46°48'W, alt. 50 m, among mosses in *Salix glauca* thicket, 24 Aug. 1962, K. Hansen 1442; Kangerdluarssuk, Qivaage, 65°29'N, 52°31'W, alt. c. 100 m, on mosses, 6 Aug. 1977, V. Alstrup 771027.

Peltigera scabrosella Holt.-Hartw.

Specimens examined: **West Greenland**. Harefjeld, 60°43'N, 46°04'W, on mosses on boulder, 29 July 1969, J. Andersen & E. S. Hansen 756; Bredefjord, 61°00'N, 45°59'W, alt. 50 m, on mosses on N-exposed rock, 10 Aug. 1980, V. Alstrup 80873; Sermiligaarssuk, 61°32'N, 48°35'W, alt. 50 m, on mosses, 8 Aug. 1965, K. Hansen s. n.; Nordlandet, Saardloq, 64°22'N, 51°40'W, alt. 50 m, on mosses in dwarf shrub heath, 19 Aug. 1976, V. Alstrup 760617; Sdr. Isortoq, head of Kangerdluk, 65°34'N, 51°57'W, alt. 60 m, on mosses on N-exposed slope, 20 July 1977, V. Alstrup 77576; Nunatararsup nuua, Harald Moltke Bræ, 76°39'N, 68°00'W, on mosses on gravelly soil, 29 July 1953, W. S. Benninghoff & H. C. Robbins 7631b. **East Greenland**. Kutek, 60°41'N, 42°46'W, on mosses, 4 Sept. 1884, P. Eberlin s. n.

New to different Greenland regions

Peltigera kristinssonii Vitik.

Specimens examined: **East Greenland**. Itivdlerssuaq, Langenæs, 63°23'N, 41°24'W, on mosses, 20 Aug. 1970, E. S. Hansen 1718; Eqalungmiut, 63°28'N, 41°55'W, on mosses together with *Peltigera rufescens*, 16 Aug. 1970, E. S. Hansen 4166; Angmagssalik, Blomsterdalen, 65°36'N, 37°38'W, alt. 60 m, on mosses in heath, 27 June 1968, F. Daniëls & J. G. de Molenaar 945; Isertoq, 65°39'N, 38°24'W, on soil, 23 Aug. 1971,

E. S. Hansen 1514; Qingertivaq, 66°06'N, 37°13'W, alt. 300 m, on soil, 30 July 1970, E. S. Hansen 111 & alt. 600 m, on mosses, 31 July 1970, E. S. Hansen 39 & alt. 500 m, on soil, 1 Aug. 1970, E. S. Hansen 2326; Tugtilik, 66°20'N, 35°00'W, on mosses, 2 Aug. 1971, E. S. Hansen 419.

New to South East Greenland. Widely distributed in other parts of Greenland (Hansen 1995).

Peltigera membranacea (Ach.) Nyl.

Specimen examined: East Greenland. Isertoq, 65°39'N, 38°24'W, on mosses, 24 Aug. 1971, E. S. Hansen 1524.

New to South East Greenland. Reported from South West Greenland (Hansen 2006).

Peltigera neckeri Hepp ex Müll. Arg.

Specimen examined: West Greenland. Qaanaaq, 77°29'N, 69°12'W, on soil in heath together with *Peltigera malacea*, 29 June 1986, E. S. Hansen 420 & on mosses in heath, 1 July 1986, E. S. Hansen 431 & 443.

New to North West Greenland. Previously known from more southern parts of West Greenland (Hansen 1995).

Peltigera occidentalis (E. Dahl) Kristinsson

Selected specimens examined: West Greenland. Sdr. Isortoq, Nugaarsuk, 65°27'N, 52°13'W, alt. 40 m, on mosses in dwarf shrub heath, 25 July 1977, V. Alstrup 77728; Christianshåb, 68°49'N, 51°10'W, alt. 25 m, on mosses, 9 Aug. 1958, K. Hansen 1275; Disko, Søndre Laksebugt, 69°19'N, 53°54'W, alt. 15 m, on mosses in fen, 5 Sept. 1951, P. Gelting 15608; Disko, Eqalunguit, 69°33'N, 53°36'W, 15 Aug. 1949, P. Gelting s. n.; Prøven trading post, 72°23'N, 55°34'W, on mosses, 22 Aug. 1951, P. Gelting s. n. **East Greenland.** Qutdlit, 61°33'N, 42°15'W, on mosses, 9 July 1971, K. Bagh s. n.; Eqalungmiut, 63°28'N, 41°55'W, on mosses, 13 Aug. 1970, E. S. Hansen 4086; Angmagssalik, 65°36'N, 37°38'W, 9 July 1985, E. S. Hansen 362; Brandal, c. 68°18'N, 32°15'W, on mosses, 21 Aug. 1832, P. F. Scholander s. n.

New to Central West and South East Greenland. Previously known from parts of West Greenland (Hansen 2004).

Peltigera ponojensis Gyeln.

Specimens examined: West Greenland. Disko, Igdlutsiaq, Smaragdsøen, 69°19'N, 53°08'W, alt. 25 m, on mosses in *Vaccinium uliginosum* heath, 5 Sept. 1949, P. Gelting 7611. **East Greenland.** Qingertivaq, 66°06'N, 37°13'W, alt. 200 m, on mosses together with *Peltigera canina*, 3 Aug. 1970, E. S. Hansen 2219.

New to Central West Greenland and South East Greenland. Rare in other parts of Greenland (Hansen 1995).

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