

## Lichens of Canada Exsiccati, Fascicle II, nos. 26-75

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**ABSTRACT.** – Fascicle II of the Lichens of Canada Exsiccati is disseminated by the National Herbarium of Canada (CANL) at the Canadian Museum of Nature. Thirty-five sets of 50 species are distributed to: ALTA, ASU, B, BG, BR, BRY, C, CANB, CANL, COLO, DUKE, E, EWU, F, FH, FR, GZU, H, K, KANU, LD, LUX, M, MSC, NBM, NFLD, NY, O, OSC, QFA, S, TNS, TU, and UPS. Specimens are from British Columbia (Calvert Island and the Okanagan), Ontario (Hudson Bay Lowlands), Newfoundland and Labrador (Happy Valley Goose-Bay region), Nova Scotia (southwest region), Nunavut (Baffin Island, Cornwallis Island, and the Arviat area), and Quebec (Forêt Montmorency).

**KEYWORDS.** – Biodiversity, fungi, lichenology, mycology, natural history collections, scheda.

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### INTRODUCTION

The *Lichens of Canada Exsiccati* is produced by the Lichenology Section of the Canadian Museum of Nature and is disseminated by the National Herbarium of Canada (CANL). This fascicle (II) includes nos. 26-75 and is distributed to 35 herbaria: ALTA, ASU, B, BG, BR, BRY, C, CANB, CANL, COLO, DUKE, E, EWU, F, FH, FR, GZU, H, K, KANU, LD, LUX, M, MSC, NBM, NFLD, NY, O, OSC, QFA, S, TNS, TU, and UPS. Specimens were collected by the first author from five provinces and one territory: British Columbia (8 species), Ontario (4 species), Newfoundland and Labrador (1 species), Nova Scotia (17 species), Nunavut (19 species), and Quebec (1 species). Collection sites are illustrated in Figure 1. A summary of species distributed in fascicle I and II is provided in Appendix I (see McMullin & Sharp 2018 for additional information on fascicle I).

### MATERIALS AND METHODS

*Identifications.* – We identified specimens with light microscopy and standard chemical spot tests with paraphenylenediamine in ethyl alcohol, nitric acid, sodium hypochlorite, 10% and 20% potassium hydroxide, and Lugol's iodine (Brodo et al. 2001). We further examined the chemistry using an ultraviolet light chamber. For specimens that could not be identified by morphology, chemical spot tests, or ultraviolet light, we examined the chemistry using thin-layer chromatography following Culberson and Kristinsson (1970) and Orange et al. (2001) in solvents A, B', and C.

*Specimen Preparation.* – We prepared specimens using three different methods. The first was for material that required pressing. We softened the lichens with deionized water until pliable. After dividing the material into appropriate sizes for packets, we pressed them between newsprint and corrugated cardboard until dry (1–3 days). The second method was for material on soil. To prevent the soil from breaking apart, we used a 4-1 mixture of Jade 403 PVA adhesive and deionized water. The mixture was applied using a paintbrush over the bottom surface and lower edges of specimens and then

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Figure 1. Collection sites of specimens distributed in the second fascicle of the *Lichens of Canada Exsiccati*.

dried with the lower surface facing up. Lastly, specimens on lignum or branches were cut to appropriate lengths to fit into packets using pruning shears.

We then placed all specimens on UV negative, acid-free cardboard cards, lined with natural, unbleached cotton batting. Specimens that we glued down were affixed with Jade 403 PVA adhesive. We placed the mounted specimens in pure cotton, acid-free paper packets.

#### DATA FOR FASCICLE II – NUMBERS 26–75

26. *Bryocaulon divergens* (Ach.) Kärnefelt  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, South Point. – Lat. 61.0849, Long. -94.0023. – Elev. 2-5 m. – Exposed tundra, on a low sand ridge. Associated vascular plant species: *Leymus mollis* dominant, *Honckenya peploides* common. – Terricolous.

R. Troy McMullin #17651 5 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Ruth Kaviok, Geoffrey Levin, Paul Sokoloff.

27. *Alectoria vexillifera* (Nyl.) Stizenb.  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, south coast, c. 325 m E of the Avataq sailors memorial. – Lat. 61.0867, Long. -94.0268. – Elev. 0-1 m. – Exposed tundra, coastal sand hills. Associated vascular plant species: *Leymus mollis*, *Saxifraga tricuspidata*. – Terricolous. – Syn. *Alectoria sarmentosa* ssp. *vexillifera* (Nyl.) D. Hawksw.

R. Troy McMullin #17791 8 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Geoffrey Levin, Paul Sokoloff.

28. *Flavocetraria cucullata* (Bellardi) Kärnefelt & A.Thell  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, South Point. – Lat. 61.0849, Long. -94.0023. – Elev. 2-5 m. – Exposed tundra, on a low sand ridge. Associated vascular plant species: *Leymus mollis* dominant, *Honckenia peplodes* common. – Terricolous.

R. Troy McMullin #17650 5 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Ruth Kaviok, Geoffrey Levin, Paul Sokoloff.

29. *Arctocetraria andrejevii* (Oxner) Kärnefelt & A.Thell  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, c. 6.3 km W of airport terminal along road past airport. – Lat. 61.1060, Long. -94.1867. – Elev. 10-14 m. – Exposed tundra, old beach ridge with sandy soil. – Terricolous.

R. Troy McMullin #17617 11 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Geoffrey Levin, Paul Sokoloff.

30. *Thamnomia vermicularis* (Sw.) Ach. ex Schaer.  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, E side of pond at North Point. – Lat. 61.0945, Long. -93.9833. – Elev. 2 m. – Exposed tundra, rocky cobble beach with patches of vegetation and sandy soil. – Terricolous. – Baeomycesic and squamatic acid chemotype (syn. *Thamnomia subuliformis* (Ehrh.) W.L. Culb).

R. Troy McMullin #17794 20 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Geoffrey Levin, Paul Sokoloff.

31. *Parmelia omphalodes* (L.) Ach.  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, esker along N coast, 1.3 km WNW of North Point. – Lat. 61.1006, Long. -94.0025. – Elev. 2-5 m. – Exposed moist heath tundra, at base of esker, with hummocks. – Terricolous.

R. Troy McMullin #17781 6 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Ruth Kaviok, Geoffrey Levin, Paul Sokoloff.

32. *Flavocetraria nivalis* (L.) Kärnefelt & A.Thell  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, west edge of hamlet, just W of creek and first bridge on road to Maguse Lake. – Lat. 61.1118, Long. -94.0755. – Elev. 1-5 m. – Exposed tundra, rocky slope above boulder beach, densely vegetated. – Terricolous.

R. Troy McMullin #17644 3 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Geoffrey Levin.

33. *Gowardia nigricans* (Ach.) P. Halonen, L. Myllys, S. Velmala, & H. Hyvärinen  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, South Point. – Lat. 61.0849, Long. -94.0023. – Elev. 2-5 m. – Exposed tundra, on a low sand ridge. Associated vascular plant species: *Leymus mollis* dominant, *Honckenia peplodes* common. – Terricolous.

R. Troy McMullin #17679 5 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Ruth Kaviok, Geoffrey Levin, Paul Sokoloff.

34. *Alectoria ochroleuca* (Hoffm.) A.Massal.  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, South Point. – Lat. 61.0849, Long. -94.0023. – Elev. 2-5 m. – Exposed tundra, on a low sand ridge. Associated vascular plant species: *Leymus mollis* dominant, *Honckenya peploides* common. – Terricolous.

R. Troy McMullin #17680 5 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Ruth Kaviok, Geoffrey Levin, Paul Sokoloff.

35. *Polycauliona candelaria* (L.) Frödén, Arup, & Söchting  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, ridge between lagoon and lake, c. 500 m NW of South Point, near lagoon outlet crossing. – Lat. 61.0881, Long. -94.0051. – Elev. 3 m. – Exposed tundra, low beach ridge. Associated vascular plant species: *Saxifraga tricuspidata* dominant, *Salix arctica*, and *Empetrum nigrum* common. – Saxicolous. – Syn. *Xanthoria candelaria* (L.) Th.Fr.

R. Troy McMullin #17793 20 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Geoffrey Levin, Paul Sokoloff.

36. *Lopadium coralloideum* (Nyl.) Lyngé  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, esker along N coast, 170 m WNW of cabin, c. 1.3 km WNW of North Point. – Lat. 61.1006, Long. -94.0026. – Elev. 2-5 m. – Moist heath tundra, at base of esker, with hummocks. – Terricolous.

R. Troy McMullin #17784 6 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Ruth Kaviok, Geoffrey Levin, Paul Sokoloff.

37. *Tuckermanopsis sepincola* (Ehrh.) Hale  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, c.1 km WNW of North Point. – Lat. 61.0974, Long. -94.0026. – Elev. 2-5 m. – Moist to wet heath tundra with mossy hummocks. Associated vascular plant species: *Empetrum nigrum*, *Betula glandulosa*. – Corticolous on *Salix* branches. – Syn. *Cetraria sepincola* (Ehrh.) Ach.

R. Troy McMullin #17788 7 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Ruth Kaviok, Geoffrey Levin, Paul Sokoloff.

38. *Nephroma arcticum* (L.) Torss.  
Det. R.T. McMullin, 2018

**CANADA. NUNAVUT. QIKIQTAAALUK REGION:** Qaummaarviit Territorial Park, east-central side of the island. – Lat. 63.7257, Long. -68.6911. – Elev. <25 m. – Exposed tundra, wet soil adjacent to ponds and small cliffs. – Terricolous.

R. Troy McMullin #20730 21 July 2018  
w/ Jeffery Saarela and Joavie Nookiguak.

39. *Peltigera canina* (L.) Willd.  
Det. R.T. McMullin, 2018

**CANADA. NEWFOUNDLAND AND LABRADOR. DIVISION 10:** Happy Valley Goose-Bay Region, Northwest River community, Interpretation Center at end of Portage Road, c. 10 m along trail. – Lat. 53.5343, Long. -60.1483. – Boreal Forest, dominated by *Abies balsamea* and *Picea mariana*. – Terricolous.

R. Troy McMullin #17073 6 September 2018  
w/ André Arsenault and Christopher Deduke.

40. *Lecidea ramulosa* Th. Fr.  
Det. R.T. McMullin, 2018

**CANADA. NUNAVUT. QIKIQTAALUK REGION:** Sylvia Grinnell Territorial Park. Between Iqaluit airstrip and Sylvia Grinnell River, c. 150 m E of the river. – Lat. 63.7520, Long. -68.5733. – Elev. <100 m. – Mud flats at the base of a W facing cliff below a bird nest. – Terricolous.

R. Troy McMullin #20731  
w/ Jeffery Saarela. 31 July 2018

41. *Baeomyces placophyllus* Ach.  
Det. R.T. McMullin, 2017

**CANADA. QUÉBEC. MUNICIPALITY OF LAC-JACQUES-CARTIER:** Forêt Montmorency, along road to Chute de la rivière Noire, c. 7.5 km W of Highway 175. – Lat. 47.3511, Long. -71.1179. – Partially shaded sandy soil near a stream. – Terricolous.

R. Troy McMullin #18554 26 May 2017

42. *Cladonia coccifera* (L.) Willd.  
Det. R.T. McMullin, 2015

**CANADA. ONTARIO. KENORA DISTRICT:** c. 330 km S of Hudson Bay, c. 11 km E of Muketei River, c. 7.4 km WSW of McFaulds Lake. – Lat. 52.7275, Long. -86.1635. – Elev. <100 m. – Sparsely treed bog, dominant species cover includes *Chamaedaphne calyculata*, *Cladonia stellaris*, *C. stygia*, *Kalmia angustifolia*, *Ledum groenlandicum*, *Picea mariana*, *Sphagnum fuscum*, and *Vaccinium oxycoccus*. – Terricolous. – Accessed by helicopter, w/ usnic acid and zeorin.

R. Troy McMullin #16207 12 July 2015  
w/ Murray Dixon and Jennifer Doubt.

43. *Sphaerophorus globosus* (Huds.) Vain.  
Det. R.T. McMullin, 2016

**CANADA. NUNAVUT. KIVALLIQ REGION:** Arviat, Nuvuk proposed Territorial Park, E side of pond at North Point. – Lat. 61.0944, Long. -93.9833. – Elev. <50 m. – Exposed tundra, rocky cobble beach with patches of vegetation and sandy soil. – Terricolous.

R. Troy McMullin #17753 20 July 2016  
w/ Lynn Gillespie, Samantha Godfrey, Geoffrey Levin, Paul Sokoloff.

44. *Fuscopannaria praetermissa* (Nyl.) P.M.Jørg.  
Det. R.T. McMullin, 2015

**CANADA. ONTARIO. KENORA DISTRICT:** Hudson Bay lowlands, along the W side of the Attawapiskat River, c. 298 km S of Hudson Bay. – Lat. 52.9225, Long. -85.8450. – Elev. <100 m. – Mature upland conifer dominated mixed-wood forest. – Terricolous. – Accessed by helicopter.

R. Troy McMullin #20228 21 July 2015  
w/ Murray Dixon and Jennifer Doubt.

45. *Vulpicida tilesii* (Ach.) J.-E.Mattsson & M.J.Lai  
Det. R.T. McMullin, 2017

**CANADA. NUNAVUT. QIKIQTAALUK REGION:** Queen Elizabeth Islands, Cornwallis Island, c. 1.3 km NW of Small Lake, c. ~11 km NW of Resolute. – Lat. 74.7657, Long. -95.1055. – Elev. <100 m. – Exposed tundra, lichen dominated with grass hummocks. – Terricolous. – Syn. *Vulpicida juniperina* (L.) J.-E. Mattsson & M. J. Lai.

R. Troy McMullin #20471 4 July 2017  
w/ Paul Sokoloff.

46. *Peltigera leucophlebia* (Nyl.) Gyelnik  
Det. R.T. McMullin, 2018

**CANADA. NUNAVUT. QIKIQTAAALUK REGION:** Sylvia Grinnell Territorial Park. c. 100-200 m E of the Sylvia Grinnell River, c. 100 W of Iqaluit Line, c. 600 m W of the Iqaluit airstrip. – Lat. 63.7610, Long. -68.5803. – Elev. <100 m. – Glacial marine delta- sand, silt, boulders & gravel. Pond edge- boulders & soil. – Terricolous.

R. Troy McMullin #20791 10 July 2018  
w/ Jeffery Saarela and Paul Sokoloff.

47. *Ramboldia elabens* (Fr.) Kantvilas & Elix  
Det. R.T. McMullin, 2015

**CANADA. ONTARIO. KENORA DISTRICT:** c. 343 km S of Hudson Bay, c. 10 km NNE of Scoter Lake, c. 15.4 km NNW of Kitchie Lake. – Lat. 52.6164, Long. -86.6147. – Elev. <100 m. – Sparsely treed bog, dominant species cover includes *Chamaedaphne calyculata*, *Cladonia stellaris*, *C. stygia*, *Kalmia angustifolia*, *Ledum groenlandicum*, *Picea mariana*, *Sphagnum fuscum*, and *Vaccinium oxycoccus*. – Lignicolous on an old weathered snag. – w/ atranorin and fumarprotocetraric acid. – Accessed by helicopter.

R. Troy McMullin #15959 18 July 2015  
w/ Murray Dixon and Jennifer Doubt.

48. *Bryoria furcellata* (Fr.) Brodo & D. Hawksw.  
Det. R.T. McMullin, 2015

**CANADA. ONTARIO. KENORA DISTRICT:** c. 352 km S of Hudson Bay, c. 14 km NE of Kitchie Lake, c. 21 km W of the Attawapiskat River. – Lat. 52.5567, Long. -86.3548. – Elev. <100 m. – Sparsely treed bog, dominant species cover includes *Chamaedaphne calyculata*, *Cladonia stellaris*, *C. stygia*, *Kalmia angustifolia*, *Ledum groenlandicum*, *Picea mariana*, *Sphagnum fuscum*, and *Vaccinium oxycoccus*. – Corticolous on a conifer snag. – Accessed by helicopter.

R. Troy McMullin #15979 16 July 2015  
w/ Murray Dixon and Jennifer Doubt.

49. *Cetrariella delisei* (Schaer.) Kärnefelt & A. Thell  
Det. R.T. McMullin, 2017

**CANADA. NUNAVUT. QIKIQTAAALUK REGION:** Queen Elizabeth Islands, Cornwallis Island, c. 3.1 km SW of the Resolute Bay Airport, c. 400 m E of the shoreline. – Lat. 74.6995, Long. -95.0687. – Elev. <100 m. – Exposed coastal tundra, north facing slope. – Terricolous.

R. Troy McMullin #20227 6 July 2017  
w/ Paul Sokoloff.

50. *Umbilicaria vellea* (L.) Ach.  
Det. R.T. McMullin, 2018

**CANADA. NUNAVUT. QIKIQTAAALUK REGION:** Iqaluit, E shore of Sylvia Grinnell River delta, c. 50 m SW of the end of Hubbard Road. – Lat. 63.7364, Long. -68.5564. – Elev. <100 m. – River delta with boulders and moist soil with hummocks. Some saltwater marsh areas. – Saxicolous.

R. Troy McMullin #20815 14 July 2018  
w/ Jeffery Saarela and Paul Sokoloff.

51. *Parmotrema crinitum* (Ach.) M. Choisy  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, Seaside Adjunct, c. 650 m N of Boyds Cove Ponds, c. 30 m E of seashore. – Lat. 43.8314, Long. -64.8606. – Elev. < 100 m. – Mature coastal mixed-wood forest dominated by *Abies balsamea*, *Acer rubrum*, *Alnus*, and *Picea*. – Corticolous on *Abies balsamea*.

R. Troy McMullin #20229 4 December 2018  
w/ Niels van Miltenburg.

52. *Ricasolia quercizans* (Michaux) Stizenb.  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, N of Saint Catherines River Estuary, c. 230 m SE of Saint Catherines River Lake. – Lat. 43.8546, Long. -64.8338. – Elev. <100 m. – Mature coastal mixed-wood forest dominated by *Abies balsamea*, *Acer rubrum*, *Alnus*, and *Picea*. – Corticolous on *Acer rubrum*. – Syn. *Lobaria quercizans* Michaux.

R. Troy McMullin #20230  
w/ Niels van Miltenburg. 6 December 2018

53. *Nephroma laevigatum* Ach.  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, NW of Saint Catherines River Estuary, c. 40 m from shoreline, c. 210 m NE of Southern Deep Lake. – Lat. 43.8482, Long. -64.8435. – Elev. <100 m. – Mature coastal mixed-wood forest dominated by *Abies balsamea*, *Acer rubrum*, *Alnus*, and *Picea*. – Corticolous on *Acer rubrum*.

R. Troy McMullin #20231  
w/ Niels van Miltenburg. 5 December 2018

54. *Lopadium disciforme* (Flot.) Kullhem  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, c. 1 km SE of Peskowesk Lake, c. 75 m N of river running SE out of Peskowesk Lake. – Lat. 44.2973, Long. -65.2309. – Elev. <100 m. – Mature *Tsuga canadensis* stand along river. – Corticolous on *Tsuga canadensis*.

R. Troy McMullin #20232  
w/ Niels van Miltenburg. 7 December 2018

55. *Biatora pontica* Printzen & Tønsberg  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, Seaside Adjunct, c. 800 m SW of parking lot, c. 30 m E of seashore. – Lat. 43.8314, Long. -64.8606. – Elev. <100 m. – Mature coastal mixed-wood forest dominated by *Abies balsamea*, *Acer rubrum*, *Alnus*, and *Picea*. – Corticolous on *Abies balsamea*.

R. Troy McMullin #20233  
w/ Niels van Miltenburg. 4 December 2018

56. *Pannaria conoplea* (Ach.) Bory  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, N of Saint Catherines River Estuary, c. 60 m S of clearing on S side of Saint Catherines River Lake. – Lat. 43.8535, Long. -64.8355. – Elev. <100 m. – Mature coastal mixed-wood forest dominated by *Abies balsamea*, *Acer rubrum*, *Alnus*, and *Picea*. – Corticolous on *Acer rubrum*.

R. Troy McMullin #20234  
w/ Niels van Miltenburg. 5 December 2018

57. *Leptogium lacerooides* B. de Lesd.  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, N of Saint Catherines River Estuary, on S edge of clearing S of Saint Catherines River Lake. – Lat. 43.8541, Long. -64.8354. – Elev. <100 m. – Mature coastal mixed-wood forest dominated by *Abies balsamea*, *Acer rubrum*, *Alnus*, and *Picea*. – Corticolous on *Acer rubrum*.

R. Troy McMullin #20235  
w/ Niels van Miltenburg. 6 December 2018

58. *Lasallia papulosa* (Ach.) Llano  
Det. R.T. McMullin, 2017

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, Kejimikujik Lake, on the eastern shore line near where Kejimikujik Main Parkway becomes Eel Weir Road. – Lat. 44.3825, Long. -65.2054. – Elev. 87 m. – On exposed boulders at the edge of a large lake. – Saxicolous.

R. Troy McMullin #20225 14 November 2017

59. *Cladonia multiformis* G. Merr.  
Det. R.T. McMullin, 2017

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, Frozen Ocean Lake, c. 330 m W of northeasternmost river mouth along N shoreline, c. 30 m from the shoreline. – Lat. 44.4610, Long. -65.3346. – Elev. <100 m. – On moss covered boulders in a mature mixed-wood forest dominated by *Acer*, *Pinus strobus*, and *Quercus rubra*. – Terricolous.

R. Troy McMullin #20223 13 November 2017  
w/ Lizbeth Elias.

60. *Loxospora ochrophaea* (Tuck.) R.C. Harris  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, c. 920 m SE of Peskowsk Lake, c. 80 m N of river flowing from the S end of Peskowsk Lake. – Lat. 44.2973, Long. -65.2309. – Elev. <100 m. – Mature *Tsuga canadensis* stand along river. – Corticolous on *Tsuga canadensis*.

R. Troy McMullin #20236 7 December 2018  
w/ Niels van Miltenburg.

61. *Bacidia schweinitzii* (Fr. ex Tuck.) A. Schneid.  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, c. 1 km SE of Peskowsk Lake, c. 140 m N of river flowing from the S end of Peskowsk Lake. – Lat. 44.2975, Long. -65.2308. – Elev. <100 m. – Small stand of *Acer rubrum* in a mature mixed-wood forest along a river. – Corticolous on *Acer rubrum*

R. Troy McMullin #20237 7 December 2018  
w/ Niels van Miltenburg.

62. *Parmelia squarrosa* Hale  
Det. R.T. McMullin, 2016

**CANADA. NOVA SCOTIA. DIGBY COUNTY:** Kejimikujik National Park and National Historic Site, c. 240 m E of Pebbleogitch Lake, c. 200 m S of Eel Weir Road. – Lat. 44.3014, Long. -65.3457. – Elev. <100 m. – Mature mixed-wood forest dominated by *Acer*, *Pinus strobus*, and *Quercus rubra* in a mesic area. – Corticolous on *Pinus strobus*.

R. Troy McMullin #17238 17 November 2016  
w/ Harold Clapp and Yolanda Wiersma.

63. *Cystocoleus ebeneus* (Dillwyn) Thwaites  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** Kejimikujik National Park and National Historic Site, Seaside Adjunct, NW of Saint Catherines River Estuary, c. 170 m from the shoreline, c. 560 m N of Southern Deep Lake. – Lat. 43.8513, Long. -64.8445. – Elev. <100 m. – Under a small overhang on a cliff within mature mixed-wood coastal forest. – Saxicolous.

R. Troy McMullin #20238 5 December 2018  
w/ Niels van Miltenburg.



64. *Chaenotheca brunneola* (Ach.) Müll. Arg.  
Det. R.T. McMullin, 2018

**CANADA. NOVA SCOTIA. QUEENS COUNTY:** S Kejimikujik National Park and National Historic Site, Seaside Adjunct, c. 600 m SW of the main parking lot, c. 50 m E of the seashore. – Lat. 43.8335, Long. -64.8606. – Elev. <50 m. – Mature coastal mixed-wood forest dominated by *Abies balsamea*, *Acer rubrum*, and *Picea*. – *Dictyochloropsis* photobiont.

R. Troy McMullin #20239 4 December 2018  
w/ Niels van Miltenburg.

65. *Platismatia tuckermanii* (Oakes) W.L. Culb. & C.F. Culb.  
Det. R.T. McMullin, 2016

**CANADA. NOVA SCOTIA. DIGBY COUNTY:** Kejimikujik National Park and National Historic Site, c. 240 m E of Pebbleogitch Lake, c. 200 m S of Eel Weir Road. – Lat. 44.3014, Long. -65.3457. – Elev. <100 m. – Mature mixed-wood forest dominated by *Acer*, *Pinus strobus*, and *Quercus rubra* in a mesic area. – Corticolous on *Pinus strobus*.

R. Troy McMullin #17239 17 November 2016  
w/ Harold Clapp and Yolanda Wiersma.

66. *Lobaria scrobiculata* (Scop.) DC  
Det. R.T. McMullin, 2016

**CANADA. NOVA SCOTIA. DIGBY COUNTY:** Kejimikujik National Park and National Historic Site, Pebbleogitch Lake, on the W shoreline, c. 125 m S of the NW river mouth. – Lat. 44.3012, Long. -65.3557. – Mature mixed-wood forest dominated by *Acer*, *Pinus strobus*, and *Quercus rubra* in a mesic area. – Corticolous on *Quercus rubra*.

R. Troy McMullin #17241 17 November 2016  
w/ Harold Clapp and Yolanda Wiersma.

67. *Pseudocyphellaria holarctica* McCune, Lücking & Moncada  
Det. R.T. McMullin, 2016

**CANADA. NOVA SCOTIA. DIGBY COUNTY:** Kejimikujik National Park and National Historic Site, Pebbleogitch Lake, on the W shoreline, c. 125 m S of the NW river mouth. – Lat. 44.3012, Long. -65.3557. – Mature mixed-wood forest dominated by *Acer*, *Pinus strobus*, and *Quercus rubra* in a mesic area. – Corticolous on *Quercus rubra*.

R. Troy McMullin #17240 17 November 2016  
w/ Harold Clapp and Yolanda Wiersma.

68. *Lobaria anthraspsis* (Ach.) T. Sprib. & McCune  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. CENTRAL COAST REGIONAL DISTRICT:** Calvert Island, North Beach around trailhead to West Beach. – Lat. 51.6621, Long. -128.1449. – Elev. <50 m. – Sand beach with shoreline trees dominated by *Alnus rubra* and *Picea sitchensis*. – Corticolous on *Alnus rubra*.

R. Troy McMullin #19867 22 June 2018

69. *Cladonia portentosa* ssp. *pacifica* (Ahti) Ahti  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. CENTRAL COAST REGIONAL DISTRICT:** Calvert Island, summit area of Tsunami Hill. – Lat. 51.6518, Long. -128.1287. – Elev. <75 m. – Exposed area, with small pools of standing water, rock outcrops, and scattered *Pinus contorta* ssp. *contorta*. – Terricolous.

R. Troy McMullin #19868 22 June 2018

70. *Lobaria linita* (Ach.) Rabenh.  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. CENTRAL COAST REGIONAL DISTRICT:** Calvert Island, S end of 4th Beach near the trail to 7th Beach. – Lat. 51.6422, Long. -128.1509. – Elev. <50 m. – Sand beach with shoreline trees dominated by *Alnus rubra*, *Picea sitchensis*, and *Tsuga*. – Corticolous on *Tsuga*.

R. Troy McMullin #19543 21 June 2018

71. *Calicium viride* Pers.  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. REGIONAL DISTRICT OF CENTRAL OKANAGAN:** Approximately 5 km E of Kelowna, old rail trail along Prather Creek, trailhead at 1114 Jack Pine Road, c. 100 m N of trailhead. – Lat. 49.8789, Long. -119.2744. – Elev. 1056 m. Mature conifer dominated mixed-wood forest in a river valley. Trees include *Pinus ponderosa*, *Pseudotsuga menziesii*, and *Thuja plicata*. – Corticolous on *Thuja*.

R. Troy McMullin #19416 15 June 2018  
w/ Jennifer Doubt, Nicole Fenton, Diane Haughland, David Richardson, George Scotter.

72. *Alectoria imshaugii* V. Marcano & A. Morales  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. CENTRAL COAST REGIONAL DISTRICT:** Calvert Island, S end of 3rd Beach near the trail to 4th Beach. – Lat. 51.6450, Long. -128.1510. – Elev. <50 m. – Shoreline trees dominated by *Alnus rubra* and *Picea sitchensis*, and the forest adjacent the beach dominated by *Thuja plicata* and *Tsuga*. – Corticolous. – Thamnolic acid chemotype.

R. Troy McMullin #19860 21 June 2018

73. *Usnea longissima* Ach.  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. CENTRAL COAST REGIONAL DISTRICT:** Calvert Island, Pruth Bay, W side of the mouth of Pruth Lagoon. – Lat. 51.6559, Long. -128.1310. – Elev. <50 m. Shoreline trees, dominant trees include *Alnus rubra* and *Thuja plicata*. – Corticolous on *Alnus rubra*. Syn. *Dolichousnea longissima* (Ach.) Articus.

R. Troy McMullin #19870 22 June 2018

74. *Bunodophoron melanocarpum* (Sw.) Wedin  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. CENTRAL COAST REGIONAL DISTRICT:** Calvert Island, trail between West Beach and 2nd Beach. – Lat. 51.6507, Long. -128.1424. – Elev. <50 m. – Mature mixed-wood forest dominated by *Picea sitchensis*, *Thuja plicata*, and *Tsuga*. – Corticolous on conifer snag.

R. Troy McMullin #19866 21 June 2018

75. *Siphula ceratites* (Wahlenb.) Fr.  
Det. R.T. McMullin, 2018

**CANADA. BRITISH COLUMBIA. CENTRAL COAST REGIONAL DISTRICT:** Calvert Island, summit area of Tsunami Hill. – Lat. 51.6518, Long -128.1287. – Elev. <750 m. Exposed area, with small pools of standing water, rock outcrops, and scattered *Pinus contorta* ssp. *contorta*. – Terricolous.

R. Troy McMullin #19869 22 June 2018

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## APPENDIX – ALPHABETICAL LISTING OF DISTRIBUTED TAXA

Below we present a summary of the taxa distributed to date in *Lichens of Canada Exsiccati* arranged alphabetically with the distribution numbers preceding the taxon names.

72. *Alectoria imshaugii* V. Marcano & A. Morales  
34. *Alectoria ochroleuca* (Hoffm.) A.Massal.  
27. *Alectoria vexillifera* (Nyl.) Stizenb.  
29. *Arctocetraria andrejevii* (Oxner) Kärnefelt & A.Thell  
61. *Bacidia schweinitzii* (Fr. ex Tuck.) A. Schneid.  
41. *Baeomyces placophyllus* Ach.  
55. *Biatora pontica* Printzen & Tønsberg  
26. *Bryocaulon divergens* (Ach.) Kärnefelt  
48. *Bryoria furcellata* (Fr.) Brodo & D.Hawksw.  
74. *Bunodophoron melanocarpum* (Sw.) Wedin  
8. *Calicium tigillare* (Ach.) Pers.  
71. *Calicium viride* Pers.  
49. *Cetrariella delisei* (Schaer.) Kärnefelt & A. Thell  
64. *Chaenotheca brunneola* (Ach.) Müll. Arg.  
16. *Cladonia amaurocraea* (Flörke) Schaer.  
11. *Cladonia cenotea* (Ach.) Schaer.  
42. *Cladonia coccifera* (L.) Willd.  
14. *Cladonia crispata* (Ach.) Flot. var. *crispata*  
7. *Cladonia deformis* (L.) Hoffm.  
18. *Cladonia mitis* Sandst.  
59. *Cladonia multififormis* G. Merr.  
69. *Cladonia portentosa* ssp. *pacifica* (Ahti) Ahti  
9. *Cladonia rangiferina* (L.) F.H. Wigg.  
6. *Cladonia stellaris* (Opiz) Pouzar & Vězda  
25. *Cladonia stygia* (Fr.) Ruoss  
23. *Cladonia subfurcata* (Nyl.) Arnold  
24. *Cladonia uncialis* (L.) F.H. Wigg. ssp. *uncialis*  
13. *Cladonia wainioi* Savicz  
63. *Cystocoleus ebeneus* (Dillwyn) Thwaites  
10. *Evernia mesomorpha* Nyl.  
28. *Flavocetraria cucullata* (Bellardi) Kärnefelt & A.Thell  
32. *Flavocetraria nivalis* (L.) Kärnefelt & A.Thell  
44. *Fuscopannaria praetermissa* (Nyl.) P.M.Jørg.  
33. *Gowardia nigricans* (Ach.) P. Halonen, L. Myllys, S. Velmala, & H. Hyvärinen  
17. *Hypogymnia bitteri* (Lyngé) Ahti  
19. *Hypogymnia physodes* (L.) Nyl.

12. *Icmadophila ericetorum* (L.) Zahlbr.
22. *Imshaugia aleurites* (Ach.) S.F. Mey.
58. *Lasallia papulosa* (Ach.) Llano
40. *Lecidea ramulosa* Th. Fr.
57. *Leptogium laceroides* B. de Lesd.
  1. *Letharia vulpina* s. lat. (L.) Hue
68. *Lobaria anthraspsis* (Ach.) T. Sprib. & McCune
70. *Lobaria linita* (Ach.) Rabenh.
21. *Lobaria pulmonaria* (L.) Hue
66. *Lobaria scrobiculata* (Scop.) DC
36. *Lopadium coralloideum* (Nyl.) Lynge
54. *Lopadium disciforme* (Flot.) Kullhem
60. *Loxospora ochrophaea* (Tuck.) R.C. Harris
38. *Nephroma arcticum* (L.) Torss.
53. *Nephroma laevigatum* Ach.
56. *Pannaria conoplea* (Ach.) Bory
31. *Parmelia omphalodes* (L.) Ach.
62. *Parmelia squarrosa* Hale
  5. *Parmelia sulcata* Taylor
51. *Parmotrema crinitum* (Ach.) M. Choisy
20. *Peltigera aphthosa* (L.) Willd.
39. *Peltigera canina* (L.) Willd.
46. *Peltigera leucophlebia* (Nyl.) Gyelnik
  4. *Phaeocalicium populneum* (Brond. ex Duby) Alb. Schmidt
65. *Platismatia tuckermanii* (Oakes) W.L. Culb. & C.F. Culb.
35. *Polycauliona candelaria* (L.) Frödén, Arup, & Söchting
67. *Pseudocyphellaria holarctica* McCune, Lücking & Moncada
47. *Ramboldia elabens* (Fr.) Kantvilas & Elix
52. *Ricasolia quercizans* (Michaux) Stitzenb.
75. *Siphula ceratites* (Wahlenb.) Fr.
  2. *Solorina saccata* (L.) Ach.
43. *Sphaerophorus globosus* (Huds.) Vain.
30. *Thamnomia vermicularis* (Sw.) Ach. ex Schaer.
  3. *Tuckermanopsis americana* (Spreng.) Hale
37. *Tuckermanopsis sepincola* (Ehrh.) Hale
50. *Umbilicaria vellea* (L.) Ach.
73. *Usnea longissima* Ach.
15. *Vulpicida pinastri* (Scop.) J.-E. Mattsson & M.J. Lai
45. *Vulpicida tilesii* (Ach.) J.-E. Mattsson & M.J. Lai