ART. IV. PTERIDOPHYTA AND SPERMATOPHYTA OF SOUTHAMPTON ISLAND.

BY HUGH M. RAUP.

A substantial collection of the vascular flora of Southampton Island and neighboring points was made by Dr. George M. Sutton in 1929 and 1930. This collection, consisting of four hundred and fifty-five herbarium sheets, was entrusted to the writer for the preparation of the following annotated list. One hundred and nine species and varieties are represented, while the specimens are distributed among the major groups as follows: Pteridophyta, 12; Monocotyledoneæ, 104; Archichlamydeæ, 244; Metachlamydeæ, 95. Nearly all of the specimens are well collected and preserved, and Dr. Sutton is to be congratulated not only upon the quality of the material, but also upon his having made notable additions to the known flora of the region.

The only published accounts of the flora of Southampton Island are based upon collections made in 1821 during the second expedition in command of Captain W. E. Parry. Records of these, involving only forty species, appeared in an appendix to Parry's narrative,¹ and were later incorporated, after study of the actual specimens, into H. G. Simmons' "*Survey of the Phytogeography of the Arctic American Archipelago*."² It will be seen, therefore, that Dr. Sutton's specimens include sixty-six additions to the known flora. Of the plants previously reported, only four fail to appear in the present collection: *Poa glauca* Vahl, *Luzula nivalis* (Laestadius) Beurling, *Arenaria Rossii* (R. Br.) Fenzl, and *Parrya arctica* R. Br. *Pleuropogon Sabinei* R. Brown, of the Parry Expedition reports, is somewhat doubtfully recorded from Sutton's collections (sterile specimens only); and *Oxytropis arctica* R. Brown, a name which appears in the earlier records and has been applied to more than one species, might be interpreted either as *Oxytropis Belli* (Britton) Palibine, or *Oxytropis hudsonica* (Greene) Fernald of the more recent treatments of this group.³ The opportunity for making such notable contributions to the knowledge of plant distribution in the Arctic has recently been emphasized by the late M. O. Malte,⁴ a leading authority upon the American Arctic flora. He made large collections on many islands, the flora of which would appear to be very small if we may judge by earlier records. When investigated by more experienced collectors, however, the islands yield a much richer harvest, as is shown in the present instance.

No attempt has been made to give the complete synonymy of the species listed, only those names being included which will make the notes referable to standard floras of temperate North America. A few citations of the recent literature which has been pertinent in the determination of the specimens are given, together with such notes on habitats as the collector made in the field. These notes are either ascribed to him directly or are placed in quotation marks. Unless otherwise stated, all species reported here are now recorded from Southampton Island for the first time.

¹Appendix to Capt. Parry's Journal of a Second Voyage, etc., in the Years 1821-22-23. London. 1825. pp. 383-411.

²Lunds Universitets Arsskrift, N. F., Afd. 2., Bd. 9., Nr. 19 (1913).

³Rhodora, xxx, 144-5 (1928).

⁴Ann. Repts. Nat'l. Mus. Can. for 1927, Bull. 56, pp. 31-2 (1929); and for 1928, Bull. 62, p. 13 (1929).

The writer wishes to express his appreciation for helpful criticisms and suggestions given him by the late Dr. M. O. Malte, then Chief Botanist at the National Museum of Canada, and by Professor M. L. Fernald and Mr. C. A. Weatherby of the Gray Herbarium of Harvard University. Most of the work was done at the Gray Herbarium during the writer's tenure of a National Research Fellowship in the Biological Sciences.

ARNOLD ARBORETUM, HARVARD UNIVERSITY,
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PTERIDOPHYTA.

Family POLYPODIACEÆ.

1. *Thelypteris fragrans* (Linnæus) Nieuwland.

Dryopteris fragrans (Linnæus) Schott.

Specimens in good fruit were collected at Southampton Island in late June and early July, and at Chesterfield Inlet in August and September.

Family EQUISETACEÆ.

2. *Equisetum arvense* Linnæus.

Sterile shoots with well-developed root-stocks collected July 23.

3. *Equisetum variegatum* Schleicher.

Sterile shoots with root-stocks collected during the third week in July.

Family LYCOPODIACEÆ.

4. *Lycopodium Selago* Linnæus.

Plants bearing gemmæ and old spore-cases collected during the first week in July.

SPERMATOPHYTA.

Family GRAMINEÆ.

5. *Festuca brachyphylla* Schultes.

Festuca brevifolia R. Brown, not Muhlenberg; *F. ovina* Linnæus, var. *brevifolia* (R. Brown) Hackel; *F. supina* of Am. authors, not Schkuhr.

Several specimens, all in anthesis, were collected Aug. 2. See *Rhodora*, XXX, 250-251 (1935). Previously known from Southampton Island.

6. *Poa rigens* Hartman.

Poa arctica Robert Brown.

Collected in anthesis July 20, 21, and with maturing spikelets, Aug. 4. For a recent treatment of the synonymy of this species see Holmberg, *Skandinaviens Flora*, Häfte 2, pp. 211-12 (1926). Previously known from Southampton Island.

7. **Pleuropogon Sabinei** R. Brown. (?)

Sterile shoots collected late in July may be referred to this species with a fair degree of certainty. Previously known from Southampton Island.

8. **Dupontia Fisheri** R. Brown.

Collected in anthesis during the third week in July. For a discussion of this and related forms see Rept. Can. Aret. Exp., V. Pt. B, pp. 8-9 (1922).

9. **Arctophila fulva** (Trinius) Ruprecht.

Colpodium fulvum (Trinius) Grisebach.

Specimens with young spikelets collected in late July and early August. See Rept. Can. Aret. Exp., V. Pt. B, pp. 6-8 (1922), for a treatment of this and related forms.

10. **Elymus arenarius** Linnæus, var. **villosus** E. Meyer.

The specimens of this plant nearly all have very short culms (1-3 dm.) and well-developed root-stocks. Collections were made at Southampton Island in the second and third weeks of July and on Aug. 2. The species was also collected at Bear Island on Aug. 4, and at Chesterfield Inlet in August and September. For treatments of its identity and geographic range, see Rhodora, XVII, 98 (1915) and XXXII, 201, 203 (1930). Previously known from Southampton Island.

11. **Trisetum spicatum** (Linnæus) Richter.

Trisetum subspicatum Beauvois.

Specimens of this species, with both young and well-developed inflorescences, were collected July 10 and 22. They appear to be identical with the alpine plant of Europe rather than with American varieties of it. See Rhodora, XVIII, 195-8 (1916).

12. **Arctagrostis latifolia** (R. Brown) Grisebach.

Colpodium latifolium R. Brown.

Collected in flower on Southampton Island during the last third of July and the first week in August, and at Chesterfield Inlet in August and September. Previously known from Southampton Island.

13. **Alopecurus alpinus** Smith.

Flowering specimens, in anthesis, collected during most of July and early in August. Previously known from Southampton Island.

14. **Hierochloë alpina** (Liljeblad) R. & S.

Savastana alpina (Liljeblad) Scribner.

Specimens in anthesis collected on Southampton Island the second week in July, on dry ridges. Fruiting culms were found there July 25, and Aug. 2, and at Chesterfield Inlet in August and September. Previously known from Southampton Island.

Family CYPERACEÆ.

15. *Eriophorum Scheuchzeri* Hoppe.

A flowering specimen collected July 17, and one in fruit, August 5. Previously known from Southampton Island.

16. *Eriophorum callitrix* Chamisso.

Fruiting specimens of this, collected the first week in August, appear to be a good match for the Asiatic species. See Rhodora, XXVII, 203-10 (1925), for a discussion of this and its American affinities.

17. *Eriophorum angustifolium* Roth.

Eriophorum polystachyon Linnæus, in part.

Collected in flower during most of July and with very young fruit early in August. Previously known from Southampton Island.

18. *Kobresia simpliciuscula* (Wahlenberg) Mackenzie.

Carex bipartita Dalla Torre, not Allione.

A single specimen of this, with young fruit, was collected at Chesterfield Inlet in late summer. See N. Am. Flora, XVIII, 6 (1931), for the synonymy of this species.

19. *Carex ursina* Dewey.

Flowering specimens collected July 18 and 19.

20. *Carex rupestris* Allione.

Specimens collected on July 19 and August 5 were in fruiting condition.

21. *Carex scirpoidea* Michaux.

Only the male plants of this dioecious species were collected. They were found in anthesis on July 30. Previously known from Southampton Island.

22. *Carex ustulata* Wahlenberg.

Carex atrofusca of recent authors, but according to Simmons not of Schkuhr.

Collected in flower on Southampton Island on August 5, and with maturing achenes at Chesterfield Inlet in late summer. See Simmons, *Phytogeography, etc.*, p. 63 (1913).

23. *Carex misandra* R. Brown.

Carex fuliginosa Schkuhr, var. *misandra* (R. Brown) O. F. Lang.

Collected in flower during the latter third of July, and in early fruit during the first week in August. See Das Pflanzenreich, IV, 20, p. 557 (1909), and Simmons, *Phytogeography, etc.*, pp. 63-4 (1913) for treatments of this form. Previously known from Southampton Island.

24. *Carex aquatilis* Wahlenberg, var. *stans* (Drejer) Boott.

Carex stans Drejer.

Judging by the abundance of the specimens collected, and by the notes of other travellers in the American Arctic, this is the commonest *Carex* in the region. It was found in flower during the last third of July, and in early fruit during the first week in August. Previously known from Southampton Island.

25. *Carex saxatilis* Linnæus.

A single specimen, in flower, was collected at Chesterfield Inlet in late summer.

26. *Carex membranopacta* Bailey.

Carex membranacea Hooker; *C. compacta* R. Brown.

Specimens with very young spikes or early flowers collected during the second and third weeks of July. Those collected during the first week of August at Southampton Island had young fruit, while those collected in late summer at Chesterfield Inlet had maturing fruit. The stoloniferous habit is much accentuated. Previously known from Southampton Island.

Family JUNCACEÆ.

27. *Luzula confusa* Lindeberg.

Luzula arcuata (Wahlenberg) Swartz, var. *confusa* (Lindeberg) Kjellman.

Specimens in late flower or early fruit collected the first week in August. Previously known from Southampton Island.

28. *Juncus arcticus* Willdenow.

Specimens collected during the third week in July have a few mature capsules, but most are in flower.

29. *Juncus biglumis* Linnæus.

Collected in flower during the third week in July.

30. *Juncus castaneus* Smith.

A single specimen in late flower collected at Chesterfield Inlet in the latter part of the summer.

Family LILIACEÆ.

31. *Tofieldia palustris* Hudson.

Tofieldia minima (Hill) Druce.

Flowering specimens were collected during the last week of July and the first week of August.

Family SALICACEÆ.

32. *Salix reticulata* Linnæus.

Only staminate plants were collected, and these during the first three weeks of July. See Bot. Gaz. LXVII, 44, 45 (1919), and Rhodora, XXXII, 200, 202 (1930), for synonymy and range.

33. *Salix herbacea* Linnæus.

A single specimen, with mature capsules, collected at Chesterfield Inlet in late summer.

34. *Salix anglorum* Chamisso.

Salix arctica R. Brown.

Young catkins of this species were collected during the last week of June and the first third of July, while immature capsules were found on July 20. At Chesterfield Inlet, in late summer, a specimen with mature capsules was collected. The plants are all small shrubs up to a foot high. See Bot. Gaz., LXVI, 126-35 (1918), and Journ. Arnold Arb. III, 67 (1921), for synonymy and relationships. Previously known from Southampton Island.

35. *Salix cordifolia* Pursh, var. *callicarpæa* (Trautvetter) Fernald.

A sterile specimen of this species, with well-developed leaves, was collected July 10, and a fertile one with ripening capsules on August 2. For a recent treatment, see Rhodora, XXVIII, 181-8 (1926).

36. *Salix Richardsonii* Hooker.

Specimens with staminate catkins and newly opened leaf buds collected June 26, and a single leafy specimen with an old pistillate catkin found August 3. See Journ. Arnold Arb. I, 214-15 (1920).

37. *Salix alaxensis* (Andersson) Coville

A sterile specimen with young leaves was collected on June 30, and another with maturing capsules on July 23. See Journ. Arnold Arb. I, 223-6 (1920); III, 75 (1921); and Rhodora, XXXII, 200, 202 (1930), for recent treatments of the relationships and range of this species.

Family POLYGONACEÆ.

38. *Oxyria digyna* (Linnæus) Hill.

Several flowering specimens were collected during the first three weeks of July.

39. *Polygonum viviparum* Linnæus.

Bistorta vivipara (Linnæus) S. F. Gray.

Specimens with flowers or well-developed bulblets were found on Southampton Island during the latter half of July, and at Chesterfield Inlet in late summer.

Family CARYOPHYLLACEÆ.

40. *Silene acaulis* Linnæus, var. *excapa* (Allioni) DC.

Found in flower, July 5. See *Rhodora*, XXIII, 119-20 (1921), for a discussion of this and related forms.

41. *Lychnis furcata* (Rafinesque) Fernald.

Lychnis or *Melandrium affine* of authors.

Collected in flower about mid-July. See *Rhodora*, XXXIV, 22-25 (1932), for a recent revision of this group.

42. *Lychnis apetala* Linnæus.

Melandrium apetalum (Linnæus) Fenzl.

Flowering specimens were found throughout the latter half of July, and some with young fruit, August 1. All have blue flowers except a few "creamy white" ones collected July 19, in "precisely the same sort of place as that in which the blue ones grow." Previously known from Southampton Island.

43. *Cerastium alpinum* Linnæus, var. *legitimum* Lindblom.

Specimens with flowers were collected at Southampton Island throughout July, and some with fruit as early as July 6. Sterile plants were found at Bear Island on August 4, and fruiting ones at Chesterfield Inlet in late August and September. See *Rhodora*, XXII, 169-79 (1920), for a revision of this section of *Cerastium*. Previously known from Southampton Island.

44. *Cerastium cerastioides* (Linnæus) Britton.

Flowering specimens collected July 20.

45. *Arenaria peploides* Linnæus.

Honkenya peploides (Linnæus) Ehrhart; *Halianthus peploides* (Linnæus) Fries.

Specimens collected during the last two weeks of July are in flower.

46. *Arenaria verna* Linnæus, var. *pubescens* (Chamisso & Schlechtendahl) Fernald.

Arenaria propinqua Richardson.

A single flowering specimen collected August 2. See *Rhodora*, VIII, 32 (1906), and XXI, 21 (1919). Previously known from Southampton Island.

47. *Arenaria uliginosa* Schleicher.

A single sheet of specimens collected July 20, in flower.

48. *Stellaria longipes* Goldie.

Flowering specimens collected late in June and throughout most of July. Previously known from Southampton Island.

Family RANUNCULACEÆ.

49. *Ranunculus hyperboreus* Rottboell.

There is an undated flowering specimen from Southampton Island, and a sterile one (?) collected at Chesterfield Inlet in late summer.

50. *Ranunculus sulphureus* Solander.

Specimens with late flowers and nearly mature fruits found at Bear Island, August 4. See Rept. Can. Arct. Exp., V. Pt. B, pp. 32-3 (1922), for a study of the relationships of this plant to *R. nivalis* Linnæus, which is closely related to it and with which it is commonly confused.

51. *Ranunculus pygmæus* Wahlenberg.

A single flowering specimen collected July 17.

52. *Ranunculus pedatifidus* J. E. Smith, var. *leiocarpus* (Trautvetter) Fernald.

Flowering plants collected July 7, in "damp places in uplands," and again on July 17. Specimens with immature achenes found at Bear Island August 4. See *Rhodora*, XXXVII, 93-96, (1934).

Family PAPAVERACEÆ.

53. *Papaver radicum* Rottboell.

Papaver nudicaule of authors.

Found in flower through most of July, the specimens collected late in the month being with immature capsules. Previously known from Southampton Island.

Family CRUCIFERÆ.

54. *Cochlearia grœnlandica* Linnæus.

Cochlearia officinalis Linnæus, var. *grœnlandica* (Linnæus) Gellerstedt, in Andersson & Hesselbo.

Found in flower throughout most of July, and with immature fruits during the latter half. Specimens collected at Bear Island, August 4, have nearly mature pods.

55. *Eutrema Edwardsii* R. Brown.

Collected with flowers and immature fruit during most of July, and with maturing fruit during the last third of the month. Found with flowers and immature fruit at Bear Island, August 4. Its habitat is noted as "damp places in uplands." Previously known from Southampton Island.

56. *Cardamine bellidifolia* Linnæus.

Found in flower July 4, and with maturing fruit, July 18.

57. *Cardamine pratensis* Linnæus, var. *angustifolia* Hooker.

Collected in flower during the latter half of July. A specimen found July 17 is marked "Prairie Point." See *Rhodora*, XXII, 9-11 (1920), for a revision of this group. Previously known from Southampton Island.

58. *Lesquerella arctica* (Richardson) Watson.

Flowering specimens collected July 5. Previously known from Southampton Island.

59. *Draba alpina* Linnæus.

Found in flower from about mid-July to the first week of August. Maturing pods were collected early in August at Bear Island. See *Contrib. Gray Herb.*, CV (1934), for discussions of this and the following species of *Draba*.

60. *Draba alpina* Linnæus, var. *nana* Hooker.

Found flowering in late June and early July. Maturing pods collected during the first week in August.

61. *Draba fladnizensis* Wulfen.

Found in flower the first week in July. A flowering specimen collected July 20 has also been doubtfully referred to this species.

62. *Draba nivalis* Liljeblad.

Found in flower and immature fruit during the second and third weeks of July.

63. *Draba glabella* Pursh.

In flower during most of July, and with maturing fruit in the last third of the month. Previously known from Southampton Island.

64. *Draba cinerea* Adams.

Flowering specimens found the first week in July.

65. *Braya purpurascens* (R. Brown) Bunge.

Flowering specimens collected late in June and during the first three weeks in July.

Family SAXIFRAGACEÆ.

66. *Saxifraga rivularis* Linnæus.

A single specimen, in late flower, found at Chesterfield Inlet in late summer.

67. *Saxifraga cernua* Linnæus.

Found with flowers and developing bulblets during the third week in July.

68. *Saxifraga cernua* Linnæus, var. *latibracteata* Fernald & Weatherby.

Flowering specimens collected during the latter half of July. See *Rhodora*, XXXIII, 234-5 (1931).

69. *Saxifraga sileniflora* Sternberg.

Muscaria sileniflora (Sternberg) Small.

In flower during the third week in July.

70. *Saxifraga nivalis* Linnæus.

Micranthes nivalis (Linnæus) Small.

Collected in flower early in July, and with both flowers and immature fruit in the latter half of the month.

71. *Saxifraga tricuspidata* Rottboell.

Leptasea tricuspidata (Rottboell) Haworth.

Collected with flowers and immature capsules at Southampton Island during the first three weeks of July, and with mature fruit at Chesterfield Inlet in August and September. Previously known from Southampton Island.

72. *Saxifraga aizoides* Linnæus.

Leptasea aizoides (Linnæus) Haworth.

Plants with flowers and immature fruit collected in the last third of July and the first week in August. Previously known from Southampton Island.

73. *Saxifraga Hirculus* Linnæus.

Leptasea Hirculus (Linnæus) Small.

Collected in flower at Southampton Island throughout most of July, and at Chesterfield Inlet in August and September. Previously known from Southampton Island.

74. *Saxifraga oppositifolia* Linnæus.

Antiphylla oppositifolia (Linnæus) Fourreau.

Found in flower from June 16 to July 4, and noted by the collector as the first species to blossom in the spring. Immature fruit found early in July.

75. *Chrysosplenium tetrandrum* Fries.

Chrysosplenium alternifolium Linnæus, var. *tetrandrum* (Fries) Lundström.

Collected with maturing fruit during the latter half of July and the first week in August.

Family ROSACEÆ.

76. *Potentilla nivea* Linnæus, var. *subquinata* Lange.

Potentilla subquinata (Lange) Rydberg; *P. nipharga* Rydberg.

Found with flowers and maturing fruit in late June and the latter part of July.

77. *Potentilla Vahlia* Lehmann.

Found with flowers, June 27, and with both flowers and mature fruit, July 4. Previously known from Southampton Island.

78. *Dryas integrifolia* Vahl.

Collected in flower during most of July at Southampton Island, and in fruit at Chesterfield Inlet late in the summer. Noted by the collector as "ubiquitous save in marshes." Previously known from Southampton Island.

Family LEGUMINOSÆ.

79. *Astragalus alpinus* Linnæus.

Tium alpinum (Linnæus) Rydberg.

Collected in flower at Southampton Island during the second and third weeks of July, and in flower at Chesterfield Inlet in late summer.

80. *Oxytropis hudsonica* (Greene) Fernald.

Flowering specimens collected during the last three weeks of July. Its habitat is noted as "gravel ridges." For a discussion of this and the following species of *Oxytropis* see Rhodora, XXX, 137-55 (1928).

81. *Oxytropis Maydelliana* Trautvetter.

Oxytropis leucantha Gray, in part; *O. campestris* (Linnæus) De Candolle, var. *melanocephala* Hooker.

Found in flower during the second and third weeks of July. Habitats noted are, "Uplands," and "Sandy and gravelly ridges." Previously known from Southampton Island.

82. *Oxytropis arctobia* Bunge.

Collected in flower during late June and early July, and in fruit late in July. Its habitat is noted as "upper ridges in gravel."

83. *Oxytropis Belli* (Britton) Palibine.

A single specimen, in fruit, collected at Chesterfield Inlet in late summer.

Family EMPETRACEÆ.

84. *Empetrum nigrum* Linnæus.

A single fruiting specimen collected July 23.

Family ONAGRACEÆ.

85. *Epilobium latifolium* Linnæus.

Chamænerion latifolium (Linnæus) Sweet.

Collected in flower during the third week in July.

86. **Epilobium alpinum** Linnæus.

Flowering specimens collected July 25. See *Rhodora*, XI, 141-7 (1909); XX, 36-8 (1918); and Bot. Exch. Club, Brit. Isles, III, Pt. 5, p. 438 (1913), for treatments of this species.

Family HIPPURIDACEÆ.

87. **Hippuris vulgaris** Linnæus.

A flowering specimen collected July 18, and a sterile one on August 2.

Family PYROLACEÆ.

88. **Pyrola grandiflora** Radius.

Pyrola rotundifolia Linnæus, var. *pumila* Hooker.

Flowering specimens collected during the latter half of July and the first week of August.

Family ERICACEÆ.

89. **Ledum palustre** Linnæus, var. **decumbens** Aiton.

Ledum decumbens Loddiges ex Steudel.

Found in flower at Southampton Island, July 30, and with late flowers and immature fruit at Chesterfield Inlet late in the summer. For a recent treatment of this and related forms, see Meddel. Grønl. LVIII, Pt. 1, 118-32 (1926), in which it is maintained that the above variety is worthy of specific rank.

90. **Rhododendron lapponicum** Linnæus.

Collected in flower during the latter two thirds of July.

91. **Cassiope tetragona** (Linnæus) Don.

Plants with both flowers and maturing fruits collected July 6 and 10. Their habitat is noted as "mossy tundra." Previously known from Southampton Island.

92. **Arctostaphylos rubra** (Rehder & Wilson) Fernald.

Arctostaphylos alpina (red-fruited form) Richardson; *Mairania alpina* (red-fruited form) Britton & Rydberg; *Arctous* (Gray) Niedenzu.

Found in flower during the last week in June and the first third of July. Other specimens, collected later in July, are sterile. The habitat is noted as "mossy tundra." See *Rhodora*, XVI, 32 (1914).

93. **Vaccinium uliginosum** Linnæus, var. **alpinum** Bigelow.

Flowering plants found late in June at Southampton Island, and fruiting ones at Chesterfield Inlet in August and September. See *Rhodora*, XXV, 23-5 (1923), for a discussion of this form.

94. **Vaccinium Vitis-Idæa** Linnæus, var. **minus** Loddiges.

Vitis-Idæa Vitis-Idæa (Linnæus) Britton.

Flowering specimens collected during the latter half of July and early in August.

Family PLUMBAGINACEÆ.

95. **Statice labradorica** (Wallroth) Hubbard & Blake, var. **genuina** Blake.

Statice Armeria of authors.

Flowering specimens collected in the third and fourth weeks of July. See *Rhodora*, XIX, 1-9 (1917).

Family BORAGINACEÆ.

96. **Mertensia maritima** (Linnæus) S. F. Gray.

Collected in flower on July 20.

Family SCROPHULARIACEÆ.

97. **Castilleja pallida** (Linnæus) Sprengel., subsp. **elegans** (Ostenfeld) Pennell.

Flowering specimens collected at Chesterfield Inlet in late summer. See *Proc. Acad. Nat. Sci. Phila.* LXXXVI, 522-528 (1934).

98. **Pedicularis lapponica** Linnæus.

Collected in flower on July 23.

99. **Pedicularis sudetica** Willdenow.

Found flowering in the latter half of July and early in August. Previously known from Southampton Island.

100. **Pedicularis lanata** Chamisso & Schlechtendahl.

Collected in flower, July 3 and 10, and recorded as "one of the earliest flowers to appear." Its habitat is noted as "gravel ridges."

101. **Pedicularis hirsuta** Linnæus.

Found flowering in the latter half of July.

102. **Pedicularis flammea** Linnæus.

Collected in flower, July 19 and 20.

103. **Pedicularis capitata** Adams.

Flowers collected during the latter half of July and early in August. Previously known from Southampton Island.

Family CAMPANULACEÆ.

104. *Campanula uniflora* Linnæus.

Collected in flower from July 18 to 30. The specimen collected on July 18 is marked, "Upper dry grass country. Rare." Previously known from Southampton Island.

Family COMPOSITÆ.

105. *Erigeron eriocephalus* J. Vahl.

Found at Southampton Island, July 19, with flowers and maturing achenes, and at Chesterfield Inlet in late summer with both flowers and disseminated achenes.

106. *Matricaria grandiflora* (Hooker) Britton.

Matricaria inodora Linnæus, var. *grandiflora* (Hooker) Ostenfeld.

Collected in flower, July 19.

107. *Chrysanthemum integrifolium* Richardson.

Found flowering in the latter half of July and early in August. Its habitat is noted as "uplands—not on the beach where the big ones grow." The latter are obviously of the preceding species. Previously known from Southampton Island.

108. *Senecio palustris* (Linnæus) Hooker.

Collected in flower during the second week in July.

109. *Taraxacum lacerum* Greene.

Found in flower July 19 and August 2. See *Rhodora*, XXXV, 378-379 (1933).

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