E.E.

Botany
Accessions.

FIELD NOTE BOOK

CROCKER LAND EXPEDITION

1913 - 1915

No. 1

Botany Accessions

1. Lichens
56 Collected October 16, 1913
, On shallow soil between
rocks on Reindeer Point,
Etah, North Greenland

2. Lichens in fruit
56 Collected October 16, 1913
On gneissoid rocks of
Reindeer Point, Etah,
North Greenland.

[illegible] Lichens
[illegible] Collected October 16, 1913
On gneissoid rocks of
Reindeer Point, Etah,
North Greenland.

[illegible] Lichens
[illegible] Collected October 16, 1913.
On micaceous gneissoid
rocks on Reindeer
Point, Etah, North Greenland.

[illegible] Lichens
[illegible] Collected October 16, 1913
On rocks on Reindeer Point
Etah, North Greenland.

[illegible] Lichens
56 Collected October 16, 1913
On rocks on Reindeer
Point, Etah, North Greenland.

7 Lichens
56 Collected October 16, 1913 On rocks of Reindeer Point Etah, North Greenland

8. Lichens
56 Collected October 16, 1913 on moss-grown soil on Reindeer Point, Etah, North Greenland.

9 Lichens
56 Collected October 16, 1913. on gneissoid rocks on Reindeer Point Etah, North Greenland

10. Lichens.—
56. Collected from rock L, a basaltic boulder lying on ground on plain near house on N. W. side of rock, on surface sloping 45°. Growing in ~~confluenc~~ family e patches more or less infringing upon each other. Collected May 10, 1914 at Umanak North Greenland.

11. Lichens,—
56 Collected on thin mossy guano rich soil of Saunders Island. Soil from ¼ to 1 inch thick. May 24, 1914

12. Lichens and Fungi.
56 Collected on rock-ledge at foot of snow-bank on hill-side at Umanak, on June 1, 1914. The upper layer of specimens is of Marchantia collected on the same ledge; the under side of the fronds is covered apparently with an orange colored fungus. The rock-ledge is a damp one from melting snow.

13.— Clistogamous flower of Saxifraga cernua, preserved in 70% H_2O, 25 Alcohol, & 5% formalin. Collected under snow on hillside at Umanak, June 2, 1914.

14. Lichens from rocks on hills back of Umanak. Collected June 4, 1914.

15. Fungi* collected from damp hill-slopes back of Umanak, June 4, 1914.

16 Lichens, fungi, and algae collected at foot of bird cliffs at Saunders Island, June 16, 1914.

17 Fungi collected on hill slope in a pool on hillside back of house at Umanak.

18 Mosses collected in gorge between mainland and glacier just north of Sutherland Island on the Cape Alexander mainland; August 29, 1914.

19— Vial of leaves preserved in 95% alcohol, 5% Chloroform for determination of starch content. Leaves collected from beneath snow of a week's duration, lowest temperature thus far 15°. Collected on gravel slope back of Igloolnac on September 24, 1914. Leaves of Draba hirta. Leaves probably remain in this state all winter.

20 Same as # 19

21 " " "

22 Leaves and parts of Pyrola rotundifolia, var grandiflora collected on September 25, 1914 on dry gravelly heath slope just west of iglos. Ground frozen, partly covered with snow, all growth and vegetative processes ended for season I think. Collected for starch determination by iodine method and preserved in 95% C_2H_5OH and 5% Chloroform.

23 Same as 22

24 " " 22.

25 Saxifraga tricuspidata deep red foliage. Same as 22.

26 Same as 25

27 Same as 25 except greener foliage.

28 Cassiope (Andromeda) tetragona. Same as 22.

29 Same as 28

30 Same as 28

31 Vaccinium uliginosum. Same as 22.

32 Same as 31.

33 Same as 31.

34 Empetrum nigrum. Same as 22

35 Same as 34

36 Same as 34

37 Roots of Pedicularis hirsuta collected from heath slope west of iglos, on September 25, 1914. Preserved for anatomical study, in 70% water 25% of 95% Alcohol and 5% formalin.

38 Leaves of Empetrum nigrum Same as # 37.

39 Leaves and crowns of and buds of Cerastium alpinum. Same as # 37.

40 Leaves of Draba hirta collected under snow. Rosettes from which next year's glowth will start. Collected on gravel slope Sept 26, 1914. Preserved in 70% H_2O, 25% C_2H_5OH and 5% formalin - for anatomical work.

41. Same as 40

42 Same as 40. Preserved in ~~70% H_2O~~ 70% C_2H_5OH, CH_3COOH and $HgCl_2$

43. Same as 42
44. Leaves of Saxifraga tricuspidata preserved same as 42.
45. Leaves of Cassiope tetragona same as 44.
46 Same as 44.
47 Same as 45
48 Leaves of Pyrola grandiflora same as 42.
49 Same as 48.
50 Roots of Pedicularis hirsuta collected under snow on heath slope west of house on September 26, 1914. Preserved in 95% 95% C_2H_5OH an 5% Chloroform, for starch determination. Lowest temperature thus far 15°.
51 Same as 50.
52 Lycopodium Selago same as #50.
53 Buds of Pedicularis hirsuta same as #50.
54. Leaves of Vaccinium uliginosum collected same as #50 and preserved for anatomical purposes in 70% H_2O, 25% C_2H_5OH and 5% Formalin.
55 Buds of Pedicularis hirsuta same as #54.
56. Leaves of Pyrola grandiflora Same as #54.
57 Same as 56
58 Leaves of Saxifraga tricuspidata same as #54
59 Leaves of Empetrum nigrum same as #54
60 Leaves of Cassiope tetragonum same as #54
61 Same as #60.
62 Roots of Draba hirta collected as #50 and preserved for physiological purposes in Vom Rabl's fixing agent ~~for~~ 16 hrs. and washed successively in 70%, 70%, 80%, 90%, 95% and 95% C_2H_5OH. Preserved in 95% C_2H_5OH.
63 Leaves of Draba hirta same as #62.
64. Roots of Pedicularis hirsuta same as #62.
65 Same as #64
66 Leaves of Cassiope tetragona same as # ~~6~~ #62
67 Same as # ~~67~~ #66
68 " " # ~~67~~ #66
69 " " " ~~6~~ #66
70 Leaves of Empetrum nigrum same as #62

71. Same as #70

72. Same as #70

73. Seeds and heads of Taraxacum collected at Silkwaddy August 28, 1914 near site of most recently inhabited Eskimo igloo, some 50 to 75 yards west of stream bed.

74. Seeds of Taracum collected on Illinois Field Umanak on August 10, 1914.

75. Seeds and heads of Arnica alpina collected in Arnica Gorge, August 11, 1914.

76. Seeds and heads of Antennaria sp. collected in Arnica Gorge, Umanak on August 11, 1914.

77. Plants of Antennaria sp. collected for determination of mineral elements constituting plant, with view to learning affinities of #77, 78, 79, 80, 81 and 82. Collected in Arnica Gorge, Umanak on August 11, 1914. Dried almost to charring in oven to get rid of mold. These plants nearly always occupy the same Characteristic habitat and seem to prefer certain {constituents conditions} of soil

78. Plants of Arnica alpina same as #77.

79. Plants of Rhododendron lapponicum collected on south side of University Ridge Umanak, same as #77.

80 Plants of Woodsia glabella from crest of University Ridge near Barrier Cliff, Umanak same as #77.

81 Plants of Campanula uniflora same as #77.

82 Plants of Pyrola grandiflora. same as #77.

83 Leaves of Pyrola grandiflora same as #62

84 Leaves of Saxifraga tricuspidata same as #62.

85 Incrustation of salts deposited from percolating water on the rocks of Sutherland Island. In consequence of the salts contained in the loose stone composing this island only those plants which are tolerant of saline solutions can exist there.

86. U,

From arnica habitats on south east slope of small ledge at Petowik, sunny, dry, warm. Associated with Trisetum spicatum, Festuca ovina, Glyceria tenella? Carex rupestris.

87 U#2

From depression on Petowik ~~soon~~ wet with snow melted earlier in season. Aug 9, 1914.

88 U#3

From plateau just north of the Falls, of Fall Creek. Ledges of metamorphosed sedimentaries and dioritic intrusions outcrop near. Arnica abundant. Aug 9, 1914.

89 U.4

Arnica alpina soil sample from Alpina branch of Campanula Br. (Purling Br.) 8/10/14

90 U#5

Almost new soil formed from the igneous rocks of the region but not so certainly a pure derivative as soil Sample No. 8.

91 U#6

from opposite slope of brook ~~from~~ of No.# 4 and 5. Snow lies, soil creeps, and water constantly saturates. Almost only vascular plants are Saxifraga stellaris, cernua, and nivalis a few Juncus triglumis and Luzula. Aug 10, 1914

92 U7.

Pyrola-andromeda-lycopodium sample. - From fairly dry swale, south slope of University Ridge, west Alpine Br. Aug 10, 1914.

93 U.8

Pure soil, direct derivative from igneous ledges on south side of University Ridge. This came from a hollow in an intact boulder of the ledge. Aug 10, 1914

94 U.9.

Rhododendron lapponicum soil from south side of University Ridge. Aug 10, 1914

95 U10

from Arnica ledge, Arnica Gorge, 8/12/14

96 U11

from Woodsia glabella site on plateau of University Ridge 8/12/14.

97 U #12
From northwest end of Arnica Gorge on slope where soil from disintegrating diorite has formed sunny warm place Aug 12, 1914 Arnica.

98 U 13.
Arnica-soil sample from sunny slope on east side of gorge of stream near igloos Sonntag Bay. Associated with Erigeron eriocephalum

F
99. Fungi collected at Umanak, Summer 1914.

100 Fungi
Dryas affected by fungi? Umanak Thule Summer 1914.

101
Fungi affecting Draba hirta and completely altering its appearance.

102 Same as 101 affecting Hesperis pallasii. Both 101 and 102 collected July 10, 1915 at head of Foulke Fjord.

*103a Pedicularis hirsuta from delta at Etāh, July 16, 1915.

*a = in 70% alcohol.

104a Potentilla rubricaulis(?) from deltā at Etāh July 16, 1915

105a
Melandrium triflorum from deltā at Etāh, July 16, 1915

*106 b
Potentilla rubricaulis(?) from delta at Etāh, July 16, 1915

107 b.
Melandrium triflorum from deltā at Etāh, July 16, 1915

108 b.
Oxyria digyna from rocky deltā at Etāh, N. Greenland, July 17, 1915

109 b.
Hesperis pallasii(?) from rocky deltā at Etāh, N. Greenland, July 17, 1915

110 b
Saxifraga oppositifolia, rocky delta at Etāh, N. Greenland, July 18, 1915

111 b.
Pedicularis hirsuta, gravelly slope, Etāh, N. Greenland, July 18, 1915

112 b.
Draba hirtā, from gravel slope Etāh, North Greenland, July 18, 1915

* b = in formalin

113 a
Oxyria digyna from delta, Etah,
North Greenland, July 18, 1915

114 a
Hesperis pallasi, delta, Etah
North Greenland, July 18, 1915

115
Fungus on Salix arctica, delta,
N. Greenland, Etah, July 18, 1915

116
Fungus on Salix arctica, delta,
Etah, North Greenland, July 18, 1915

117 a
Draba hirta, gravel slope, Etah
North Greenland, July 18, 1915

118 a.
Taraxacum sp. Gravel slope,
Etah, North Greenland, July 18, 1915

119 b.
Dryas integrifolia, Gravel slope
Etah, North Greenland July 18, 1915.

120 b.
Pedicularis hirsuta. Heath slope
Etah, North Greenland July 18, 1915

121 b.
Arnica alpina Heath slope
Etah, North Greenland, July 18 1915

122 b.
Papaver radicatum, Gravel slope
Etah, North Greenland, July 18, 1915

123
Agaricus sp. Grassy slope; delta; Etah
North Greenland, July 18, 1915. In
$7 H_2O + 25 C_2H_5OH + 4$ Formaldehyde.

124 b
Taraxacum sp. (white) rocky
delta, Etah, N. Greenland, July 20, 1915

125 b
Erigeron compositus, rocky
delta, Etah, N. Greenland, July 20, 1915

126 b.
Taraxacum sp. Rocky delta
Etah, North Greenland, July 20, 1915

127 b.
Saxifraga cernua. Rocky delta
Etah, North Greenland, July 20, 1915

128 b.
Alopecurus alpinus, loamy bank
Etah, North Greenland, July 20, 1915

129 a.
Arnica alpina, Gravelly, loamy slope
Etah, North Greenland, July 20, 1915

130 a.
Erigeron compositus. Rocky
delta, Etah, North Greenland, July 20, 1915

131 a
Taraxacum sp. (yellow) Rocky
delta, Etah, North Greenland
July 20, 1915

132 a
Papaver radicatum (yellow)
Rocky delta, Etah, North Greenland
July 20, 1915

133
Fungus, pink to bright red and
dark-red pileus, turning brown
or black with age. Collected on
heath slope, August 10 1915

134
Fungus, very common brown form
growing in clusters almost every-
where. Collected Aug. 10, 12 and 16, 1915

135
Fungus, puffball variety most com
mon about Etah. Collected August 15
1916.

136
Seeds of Taraxacum phymatocar-
pum from rocky delta, Etah, North
Greenland, August 10, 1915

137
Seeds of Taraxacum arctogenum
Rocky delta, Etah, N. Greenland
August 13, 1915

138
Salix arctica seeds, collected on
rocky delta at Etah, N. Greenland
August 13, 1915

139
Fungus affecting Draba hirta
Auklet slopes along Foulke Fjord
August 21, 1914

140 a
Cystopteris fragilis, cleft in rock
cliff, auklet cliffs, Foulke Fjord
August 26, 1915

141 b.
Cystopteris fragilis from cleft in
cliff, auklet cliffs, Foulke Fjord
August 26, 1915

42 a
Equisetum arvense, ledge on
auklet cliffs, Foulke Fjord.
August 26, 1915

43 b
Equisetum arvense, ledge on
auklet cliffs, Foulke Fjord.
August 26, 1915

44 a
Saxifraga tricuspidatum, Gravel slope
Etah, N. Greenland, August 28, 1915

146 b
Saxifraga tricuspidata, Gravel slope
Etah, N. Greenland, August 28, 1915

146 a
Aspidium fragrans, Rock ledge above heath slope. Etah North Greenland August 28, 1915.

147 b.
Aspidium fragrans (Dryopteris f.) Rock ledge above heath slope, Etah, N. Greenland August 28, 1915

148 a
Festuca ovina, gravel slope, Etah North Greenland, August 28, 1915

149 b
Festuca ovina, gravel slope Etah North Greenland, August 28, 1915

150 a
Trisetum spicatum, gravel slope, Etah, North Greenland, August 28, 1915

151 b.
Trisetum spicatum, gravel slope, Etah, North Greenland, August 28, 1915

152 a Poa (?)
~~Glyceria~~ sp (?), gravel slope, Etah N. Greenland, August 28, 1915

153 b
Glyceria or Poa sp. gravel slope Etah, N. Greenland, August 28, 1915

154 b
Antennaria alpina, Heath slope Etah, North Greenland, August 28, 1915

155. Espalier growth of Cerastium alpinum gathered in fertile spot on windswept gravel plain at North Star Bay, Northwest Greenland May 27, 1916.

156. T
Tuft of Saxifraga tricuspidata from rock ledge above gravel plain at North Star Bay, Northwest Greenland, May 27, 1916

157
Tuft of Alsine (stricta or verna) from gravel plain, North Star Bay, Northwest Greenland, May 24, 1916

Tuft of Poa sp. collected in fertile spot near trading station, North Star Bay, Northwest Greenland May 25, 1916.

Tufts of Potentilla nivea from gravel plain near old mission North Star Bay, May 25, 1916

Mats or tufts of Silene acaulis from windswept gravel plain at North Star Bay, Northwest Greenland, May 24, 1916

161.
Mats of Saxifraga oppositifolia from gravel plain at North Star Bay, Northwest Greenland May 24 and 25, 1916.

162
Tufts of Potentilla nivea from gravel plain near old mission at North Star Bay, Northwest Greenland, May 25, 1916.

163
Tufts of Papaver radicatum from gravel plain near Trading Station, North Star Bay, N. W. Greenland. May 25, 1916

164
Tufts of Dryas integrifolia, var. canescens (Simm.) from base of butte at North Star Bay, N. W. Greenland May 28, 1916.

165
Tuft of Potentilla pulchella from rock ledge near trading station, North Star Bay, N. W. Greenland May 25, 1916.

166.
Tufts of Festuca ovina from gravel plain near old Mission, North Star Bay, Northwest Greenland, May 25, 1916.

167
Tufts of Luzula sp. from gravel plain near Mission House North Star Bay, Northwest Greenland, May 25, 1916.

168
Tufts of Draba hirta from gravel plain near Trading Station North Star Bay, N. W. Greenland. May 25, 1916

69.
Tuft of Draba alpina from gravel plain near Trading Station, North Star Bay, N. W. Greenland. May 25, 1916

70.
Tufts of Alsine sp. (verna or stricta) from old gravel beach, North Star Bay, N. W. Greenland. May 25, 1916.

Tufts of Potentilla nivea from rock ledge above gravel plain North Star Bay, N. W. Greenland. May 25, 1916.

2.
Tufts of Trisetum spicatum from dry gravel plain at base of Umanak, the great butte, North Star Bay, N. W. Greenland, May 28, 1916.

173.
Tuft of Hierochloe alpina from gravel plain near old Mission, North Star Bay, N. W. Greenland, May 25, 1916.

174. Small fragment of mat of Dryas integrifolia type form(?) from gravel plain near Trading Station, North Star Bay, N. W. Greenland. May 28, 1916.

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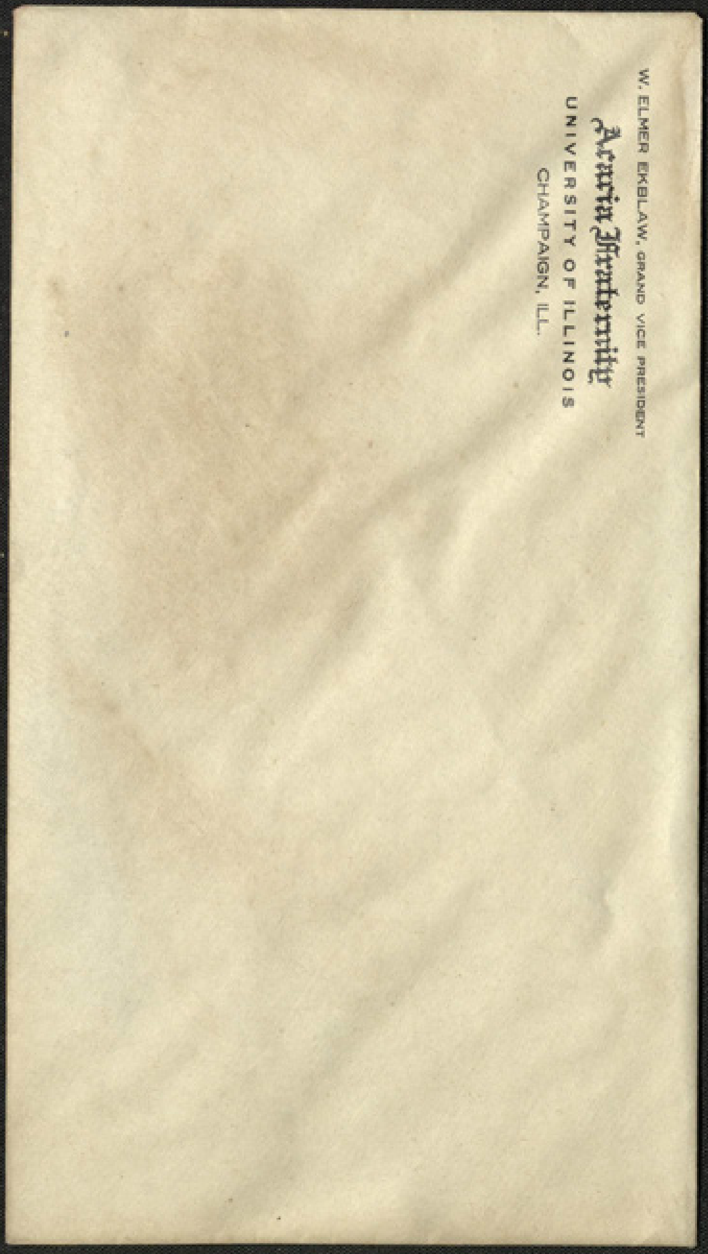

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