**Memo of Plants Collected in Lake Iliamna Region**

**Date**

June 19

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Habitat</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><em>Ranunculus stellatus</em> Smith</td>
<td>Rocky slopes</td>
<td>Plisuma Bay</td>
</tr>
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<td>Ab. = Abundant, June 19th, sunny mornings, Plisuma Bay</td>
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<tr>
<td>2</td>
<td><em>Vaccinium vitis-idaea</em> L.</td>
<td>Rocky slopes</td>
<td>Plisuma Bay</td>
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<tr>
<td>3</td>
<td><em>Spiraea salsola</em> Pall.</td>
<td>Rocky slopes</td>
<td>Plisuma Bay</td>
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<td>Ab. = Abundant, sunny mornings, Plisuma Bay</td>
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<tr>
<td>4</td>
<td><em>Trifolium arcticum</em> Fisch.</td>
<td>Mossy glades on woods</td>
<td>Plisuma Bay</td>
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<td>Ab. = Abundant, sunny mornings, Plisuma Bay</td>
</tr>
</tbody>
</table>

**Abbreviations**

- **R.** = Rare
- **S. or N.** or **ab.** = Scarce or Not abundant
- **F. ab.** = Fairly abundant
- **A.** = Abundant
- **V. ab.** = Very abundant
- **Comm.** = Common — i.e., occurring nearly every where in the region
- **K.** = Kenai
- **H.** = Hoota
- **R.** = Russian
June 19
5. Chamaenerion latifolium (L.) Sweet
Vab. R = Tul-bun-á
Selhem or lower, branch to stream, banks.

June 19
9. Papaver alpinum L.
Vab. R = l3-Kol-yoo-ee
Papaver nudicaule L.

June 19
10. Silene calcius var.
Vab. R = Thul-tha
Silene calcia L.

June 30
Vab. L = 13. see Kuk-yish-a
Barbara americana Lhd.

June 30
12. Omphalocarpus asper X auct.
Vab. Sea beaches, outwash at high tide
Also occurs on rocky slopes at higher altitudes
Not a. R = Thooish-than Koo-dhooh-yah

Cardamines
Vab. R = Tul-bun-á
Iliamna Bay

Oxyria digyna (L.) Comptd.
Vab. R = Tul-bun-á
Iliamna Bay

Arabis lyrata occidentalis Wats.

Brenaria macrocarpa Vaseh.
1. **Argentaria Anserina**: Linnaeus, Rhydb. Sea Brack, submed at H.T. Vancouver Bay. Note: (R) = Kool-neg-ä.

2. **Plantago maritima**: Ok. Sea Brack, submed. at H.T. Vancouver Bay. Note: (R) = Kool-noo-tlyoh-ä.


5. **Saxifraga pleurotoma**: Bong. Ch. Vancouver Bay. Note: (R) = Mu$h-Kind-ad-Koo-sea.


7. **Viburnum pennisetum**: Pflanz. CK. Land. Strict ground. Vancouver Bay. Ab. to 4 ft. high. (R) = Tan-sal-thoom. Fruit is eaten raw cooked and sometimes put up for winter use. Path is removed from the straight branches. They are then used for rope stems in the house.


9. **Chrysocephalium rhadrum**: Face.
June 21
25. *Armodenia megapoides* (Rupr.) Sea grasses cultured at H.T. Iliamna B. So readily eaten by horses
   
   "=Kon-coz-Koth-2
   "=Armodenia megapoides major (Rupr.) Wight.

26. *Ledum palustre* L. Plants words to 1000 ft.
   
   "=Kluck-Ke-29

27. *Heracleum lanatum* Michx. Open woods. Plants words to 1000 ft. not yet out at S/L.
   
   "=Khav
   "=Khav 1000 ft.

   
   "=Knik-Kyph-eh
   OK
June 21
29 Phagopteris rhagoptera (L.) Underw.
Open woods 3/4 to 1800 ft. Niaama Bay
R = Un-thoon-ah
Phagopteris rhagoptera (L.) Underw.

June 22
30 Dryopteris glanulosa aff. latifolia
Open woods 5/4 to 1000 ft. Niaama Bay
R = Un-thoon-ah

31 Alnus virgulifolia Wott. 9
Very at 2 to 8 in. Diam.
Niaama Bay
Much infected by a mottled gnat that destroys the leaves
R = Khoon-koo-ah-thoon-ah
Alnus virgulifolia (Wigg.) Rydger.

32 Geranium eriantherum D.C.
Rocky cliff and woods. Niaama Bay
Not at 1/2 Bay very ab in interior
R = Chul-chul-eh

June 23
33 Equisetum angustifolium Roth
90 day, shaggy. Thumma Bay
North end flat, not trail inside Pass
R = Kwee-get-thoah
Near E. Virginicius but had longer bristles

34 Picea Canadensis (Mill.) B. & P.
In diking, main
Niaama Bay
Only 5 or 6 at base,asuring 15 to 2 ft. High and
about 1000 ft. were observed here.
At Niaama H. 3 spaces were seen, the tallest
only 2.6 to 3.9 high.
At Diorama Bay Banks, distant 3 acres close
132 ft. in diameter and 16.5 years old.
This was the prevailing tree along the route
until the mouth of Diorama River was reached.
R = Ellah
Core = Kloe-baeski-ah
Sapling = Schwaller-Koo-pah
Bud = Bli-wu-wa-Kool-ship
Rus = Ko-Mil-cash-gha

Picea canadensis (Mill.) B. & P.

35 Comarum palustre L.
In ponds in phragmargh. Niaama Bay
At Niaama it was not of the heath.
Observed 4 red fruit on L. Niaama on 7/17/02
R = Khin-ah-Koon-ah
June 22, 1902

36. Rumex occidentalis

Valeriana capitata tall.

Salix alaxensis (Andrus) Cowie.

42. Salix sitchensis, Sarcopeg

43. Montia

44. Cardamine bellidifolia

Rumex occidentalis, Note both raw & boiled.

Valeriana Sitchensis, Fragrant.

Salix pacifica (DC.) Fitch.

Betula glandulosa, Michx.

Betula Alaska, Sergeant.

Claytonia sarmentosa, s.s. Mey.
1902
June 23 45 Rubus chamaemorus L.
not at all high in marshes
Iliamna Bay
Rubus chamaemorus L.

50 Cornus canadensis L.
not at all high
Iliamna Bay
Cornus canadensis L.

51 Camptosorum
Sandbank. Ok.
Iliamna Bay
Neon C. rubugatum
Erastium vulgatum L.

52 Primula
Rocky slopes east of Jackel-yakh-pass
Iliamna Bay
Red P. cuneifolia
Primula cuneifolia Ledeb.
1907
June 24 57 Artemisia maritima, L. 
Rocky slopes  Jinkal-yash Pass
Not ab.

1907
June 24 57 Artemische maritima, L.  
Rocky slopes  Jinkal-yash Pass
Not ab.

54 Yucca recurvifolia, W. D. 
Open woods  Jinkal-yash Pass
Occur both outside & inside but not ab.

55 Sambucus racemosa, L. 
Comm. Open woods  Jinkal-yash Pass
Sambucus racemosa, L.

56 Calamagrostis 
Sandy ok. soaks  Jinkal-yash Pass
f. ab.  You enquire of this.  
This species was observed to have many of the seeds sprouting outside the 
plant roots in the grounds.
One plant has a root 3' high & growing appears to be a fine good growth of some kind - 

June 25 60 Populus, subrotundifolia, L. 
Open woods  Jinkal-yash Pass

= Kheud-tha

Tyrola rotundifolia, L.
"61 Rubus chamaemorus L. ok
Openn woods, marsh. Alleman Kirk
@= Wild. Root too near
Fruit is eaten with our stewed
Rubus chamaemorus L.

62 Menziesia urceolata, Salix
Non woods
Not ok
Menziesia ferruginea Smith.

63 Halictumopsis foliosa, Turcz.
Field Open woods
Ok

64 Scrophularia scorpiurus, D.C. ok
Ab. Open woods
= Chalk-chad-ee

65 Vaccinium uliginosum L.
Open woods together, marshes Alleman Kirk
@=This ah-Kith-to-nah
Plant is eaten pung, steved tootled with
Saltmore 123

66 Polygonum viviparum, L. ok
Open woods, Y.W. banks Alleman Kirk

67 Triodanum odspicatum, Beauv. ok
Open woods Alleman Kirk
Triodanum subspicatum (L.) Beauv.

68 Calamagrostis L. ok
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O
1902 June 26 69 Pickel Canadensis (L.) P.S. P. 36.3.2 1.2

Icmaiona River

Val. 5 to 2.1 in. B. mean (coping)

Cm. = Kho-hoosh-ah

Budo-Blo-ya-ko-ool-yah

Roots = Ko-kab-lash-aj

Wood is used for making baskets, fishing, small boats etc.

Seed canadensis (Kle.) 23. 5. 7.

70 Petalia Alkanea, Sargent

Icmaiona River

Lab. = Kna-ya-yah or Kna-ya-yah wilt-stick

Wood is used for other boat frames, sleds, potter's bowls etc.

71 Petalia glandulosa, Nichols

Marias River, slopes

Icmaiona River

When in sap it is small green and glossy

When on hillside, water closer, it is large green

2 to 12 in. high x 1/2 to 2-1/2 in. in diameter but

4 to 10 ft. pointed

= Antl-eyes

Peltalia glandulosa, rotundifolia (spiral)

June 27 72 Petalia Kantechensia, Kle.

Not all. often overhugs trees. Bikes Icmaiona River

Theybals are sometimes eaten raw, but generally

gathered, spiced into soup or stew with meat

= Ran-af-dlee

Petalia kantechensia (L.) Bauer

1902 June 27 73 Rosa acicularis, Lindl.

Open woods

Icmaiona River

F = Wab.Koof.Kee. Sometimes called Hush - which = thomne

Seed capsules are eaten raw, boiled in water or cooked in a syrup with meat

74 Elymus mollis, Trair.

Sea level to sandy rock. Icmaiona River

F = Man-thir-thir-sha

elymus arenarius L.

28 75 Geranium, spec. Linn. DC. or

open woods

Icmaiona River

Site of but has made small fences transformed

F = Dolll-gle-ah

When the ground has finished blooming the leaves

are gathered dried and used as a tea. The leaves

are also boiled to cure bruises. The roots are

eaten, Their oil is used as a remedy for various diseases and a decoction is used as a remedy for

inflammation of the eyes.

76 Knema Bedicenn, Smith

Icmaiona River

Pract.
June 20. 1902.


Flab. = Kriin-thal-Kath-ə

*Lupinus nootkatensis* Donn.

" 78. *Oxyccorus oxyccorus* ssp. *nuttallii*. *Liatium* R.

Flab. = Kaa-thi-thak

Fruit is eaten both raw and cooked.

*Oxyccorus oxyccorus* ssp. *nuttallii* DC.

" 79. *Sphenoglossus amplifolius* ssp. "Katt".

Flab. = Klio-thi-ray-kah

Chief says sometimes eaten.

June 29, 1902.

Moehringia (*latiflora*), Fenzl.


" 80. *Empetrum nigrum* L.

Flab. = Kriin-thal-Kath-ə

Blossoms and fruit as an incense.

Fruit is eaten raw but not cooked. Fruit is said to be beneficial in bronchial troubles.

*Rhus chinato* L.

" 81. *Viola palustris* L.

Open woods. *Liatium* R.

Flab. = Klio-thi-ray-kah

" 82. *Taraxacum globiferum* ssp. "Katt".

Open woods. *Liatium* R.

June 29 85 Sorbus racemifolia (CWS) Rom. (new words)

Rare X = Mat-thil-chin-é, K's say the Russians eat the fruit. Fruit is partially coated on test rocks and then eaten as a remedy inoughs, asthma, rheumatism etc. Branchlets are treated on test rocks and used to treat the body.

86 Mecurus multiflora (L.) A. Gray OK

June 30 87 Euphorbia viridiflora (new words) Glissman River

Rare X = Nan-to-chah, not the same as 193. The leaf is longer and the roots are florescent.

88 Anemone

June 29 87 Euphorbia viridiflora (new words) Glissman River

Rare X = Nan-to-chah, K's say the Russians eat the fruit. Fruit is partially coated on test rocks and then eaten as a remedy inoughs, asthma, rheumatism etc. Branchlets are treated on test rocks and used to treat the body.

90 Salix

June 30 87 Iris setosa, Pall. (new words) Glissman River

Rare X = Tek-nil-ah-kol-ah-je-lah.

K's sometimes chew the root but say it is not like pepper.

91 Pedicularis

June 30 87 Iris setosa, Pall. (new words) Glissman River

Rare X = Tek-nil-ah-kol-ah-je-lah.

K's sometimes chew the root but say it is not like pepper.

92 Andromeda polifolia L.
June 30 90 Many seeds tripoliata, L.  
Not alt.  
\( \text{K} = \text{Kull-too'-ah} \)

July 3 1902  
91 Arica  
Mossy slopes, Jinkel-yash lake  
Not alt.  
\( \text{Ar} = \text{Ton-a-lei'-ah} \)

July 3 1902  
92 Juniperus Vancouver Willia.  
Dry rocky bluffs, Neahma Bay  
Not alt.  
\( \text{J} = \text{Chin-ti'-ah} \)

July 8 94 Asterophora pratensis (L.) Rydb.  
Moist ground, S. banks, Jinkel-yash  
Alt.  
\( \text{K} = \text{Kuk-chook'-ah} \)

July 8 95 Echinops laxus (Smith) Dec. Pf.  
Moist slopes, Jinkel-yash Trail  
Not alt.  
\( \text{K} = \text{Hush-Kurr} \)

July 8 96 Aconitum delphinifolium  
Open woods, moist slopes, Neahma Village  
\( \text{T} = \text{Tan-je-dee'-yil-kad-dee} \)

July 8 96 Aconitum delphinifolium  
Open woods, moist slopes, Neahma Village  
\( \text{T} = \text{Tan-je-dee'-yil-kad-dee} \)

July 11 100 Pedicularis  
Open rocky bluffs, Neahma Point  
\( \text{T} = \text{Pedicularis tanaka Wild} \)
JULY 4 101 Castanea latiocarpa, Cham. Open rocky slopes. Shiamna Pt.
Not alt. Has from 1 to 5 flowers on a single stem. Not usually single flowered.

" 5 103 Puya maria, m. Hill or Shiamna Pt. regularly broken. Not alt.
Flowers red to purplish, not turning purple in drying.

" 104 Tofieldia opaca, s. Open rocky cliffs. Alpine slopes. 3,250 to 3,600 ft. Shiamna Pt.
Tofieldia coccinea, Richards.

" 106 Salix opuntia, s. Shiamna Pt. Salix phyllophila, tender.

JULY 6 107 Potentilla nivea, L. Dry rocky cliffs. Shiamna Pt.
Potentilla villosa, ball.

Artemisia chamissoniana, Bess.
July 6. 1902.


Note: = Child

Flowers—Red, turning purple on drying.

Rhododendron kamehamehanum. Hale.

July 7. 1902.

113. Atropex littoralis L. f. alb. Mamma Point

Note: = Child

Triplex geniculata L. A. Meyers.

July 8. 1902.

114. Ligusticum scoticum L. ok. Mamma Point

Note: = Child

Ligusticum scoticum L.

July 9. 1902.

116. Reives lacifolius Pursh. Mamma Point

Note: = Child

Triplex geniculata L. A. Meyers.
July 10 117 Polygonum viviparum
Open rocky slopes at
Hecumont.
This species is somewhat alpine and does not appear to
be Polygonum viviparum L.

July 13 121 Galium triflorum, Michx.
Mucky Mt.
Rare
Galium triflorum subflorum
Miganz

July 13 122 Alpinus borealis (Bigel.) Britton
Mucky Mt.

July 13 123 Mostia
Mucky Mt.
Very fleshy, succulent in collecting.

July 13 124 Galium boreale, L.
Cliff. Mt.
Against abundant "characteristic plant of
the Interior." The plant, Allium
Dracophyllum, Hesperis, Rosa arcti
cus, Hesperis, Americanum,
may all be considered characteristic of
the Interior flora.
1901
| July 14 | Chysopsis | Open woods | Illicinac.
| 125 | | | 
| 126 | Populus fremontii, C. A. Meyers | Shade woods | Grass glades | Illicinac.
| Ab. | Sanguinaria canadensis, (B. & S.) | \( \text{No.} \) | 
| 127. | Arnica | Open woods | Illicinac.
| \( \text{No.} \) | | | 
| 128 | Solidago | Open woods | Illicinac.

Note: Illicinac.

1902
33. | Betula occidentalis | Grassy slopes | Illicinac.
| July 14 | | | 
| 129 | Poppulus obscurata | Open woods | Grassy slopes | Illicinac.
| Ab. | | | 
| 130 | Veratrum viride | Open woods | Illicinac.
| Ab. | | | 
| 131 | Poppulus pecta, Smith | Open woods | Grassy slopes | Illicinac.
| Ab. | | | 
| 132 | | Open woods | Grassy slopes | Illicinac.
| \( \text{No.} \) | | | 
| 133 | | | 

Note: Illicinac.

Veratrum echinochloicum (Coomes & Bell) Gray.
July 14 133. Vaccinium ovulifolium, Smith. Not ab. here. Fruit in excellent condition. Fruit is eaten raw, roasted and in the above condition. Boiled with meat, etc. At Kodiak said this fruit is very abundant.


July 16 136. Calamagrostis. Open woods, valley, Kitwana River. This is the most valuable grass in the whole region. Calamagrostis canadensis (W.) Dur.
July 17

141. Ranunculus reptans L. 
Along creek & dried pond. L. & Iliauna
Not ok.

142. Sagina subulata Fries. 
Not ok.

143. Hippuris vulgaris L. 
In sandy pond. L. & Iliauna
Hippuris vulgaris L.

144. Rorippa
Submerged in lake. L. & Iliauna
Rorippa palustris (L.) Bess.

145. Potentilla
Sandy rocky beach. L. & Iliauna
Potentilla monspeliensis L.

146. Epilobium
Very dry shore. Lake Iliauna
Epilobium palustre L.

147. Cheiranthus cheiranthoides (L.) Heller
Sandy rocky beach. L. & Iliauna
Cheiranthus cheiranthoides L.

148. Pleuronema lanceolatum Willd. 
(Scented) Sandy beach. L. & Iliauna
Pleuronema lanceolatum Willd.
July 8. 159 Rubus chamaemorus (fruit) Lake Niawanna.

JULY 8. 160 Rubus chamaemorus (fruit) Lake Niawanna.


July 8. 153 Alnus incana, Long Island (March), Britton.

JULY 8. About Springs, near L. Niawanna, under boreal (Bigel.) Britton.


JULY 8. 155 Cornus suecica, L. ok.

JULY 8. 155 Cornus suecica, L. ok.


The sedge about a great part of Lake Niawanna particularly the north shore while apparently useless in form, is a close examination, to be truly well dotted with this species in a perfectly fertile form.

The trees in motion appear to move, some time at least, but I think it is only a question of time until some forming individuals cut a footing and the spread becomes well established about the lake. At present it has become fairly well established on the east side, and about half way down the west side.

Picea canadensis (Mill.) B. P. B.
July 19, 1903

Road House Camp - I am a month on the expedition this morning and have collected 155 numbers to date of which probably 150 are separate species.

In crossing the last third of the Nogiling Trail last night I about 2 miles over the lake and 1 mile over woodland. The chief species seen were the tundra were

Redlichia edoghonum, Empetrum nigrum

Vaccinium vitis-idaea, V. uliginosum

Arctous alpina, Anagenera polifolia

Salix petheri, Salix

Bothan grandulosa,

This place this shore was seen in 1899

Myrica gale L.

Rhamnus reptans

Margins of ponds near Nogiling River

158 Trifolium sativum, Parry

Tundra, Nogiling Marshes. Nogiling Trail

July 20, 1903

159 Arnica montana, Arnica

Open tundra. Nogiling Trail

Shrubs, grasses, tundra shrubs are also present in line of trees.

160 Linnaea americana, Forbes

Moist woods. Nogiling Trail

161 Polycnemum sentiforme, Forbes

Nogiling Trail

July 21

162 Euphobacksy romanzoffiana (Cham.) Max

Moist tundra. Nogiling Marshes. Nogiling Trail

163 Arnica alpina, Linnaeus

Open tundra. Nogiling Trail

Tea or tundra. Acanthopappus L.

Scorpiotus alpinus L.

Nogiling Trail.
July 20
164 Lupinus arcticus, Wats.
Open tundra
Nogehling Trail

Lupinus mutabilis var. nivascens
Wats.

July 21
165 Tragopogon
Spotted petaled
Nogehling Trail

Tragopogon gracilis var. Nelen

July 22
169 Vicaria Americana, Muhl.
Sandy prairie
Foot of Lake

Vachellia parviflora L.

July 23
170 Montanea sp.
Foot of Lake

Montanea septentrionalis Wight

July 23
166 Dryas octopetala, L.
Open tundra
Nogehling Trail

Dryas octopetala, L.

July 23
168 Tragopogon
Sandy prairie
Foot of Lake

Tragopogon alpinus, L.

July 23
171 Vaccinium

Vaccinium alpinum

July 23
172 Boecheria alpina, C. A. Mey.
Dry sand

Boecheria alpina, C. A. Mey.

July 23
173 Poroma alpina, L.
Shores of Jones
Poroma alpina, L.

Poroma alpina, L.
July 23
178  *Picea mariana* (Mill.) B.S.P.  
  Slopes.  Hillside.  L.  Clarke near mouth of Chulitna River
  This tree was first observed on the Chulitna River
  little below this point.  L.  Clarke.  Fide just above mouth of Chulitna.  It is the
  preceding tree.  Figure on specimen here.  16' in.  in.  25' high.  Almost all the
  individual specimens well covered with cones which as usual
  in this species were either in less persistent and
  missed near the top.
  K= Nuthill-yoon.
  *Picea mariana* (Mill.) B.S.P.  
  
July 24
179  *Ağelorum* americana  
  *Ağelorum* americana  
  C.T.F.
  Rocky cliff.  Near mouth of Chulitna River.
  L.  Clarke
  K= Kol-Kath-a,  
  *Ağelorum* americana  
  Couteau & Coeur.

July 25
180  *Potentilla?*  
  Rocky cliff.  West side Lake Clark
  K= No-Kul-thari-thi-thi
  *Potentilla pennsylvanica* striata  
  *Potentilla pennsylvanica* striata  
  *Potentilla pennsylvanica* striata  
  *Potentilla pennsylvanica* striata.


Alnus abrotanum (C. Koch.) Koch.


Senecio needing fries. See.

1903, July 26. 191 Ribes pulcana, L.  
Fruity shaped, few white petals. Old in L. Clark.

July 26, 195 Veronica.  
(tab.) = Nun-chitanah

1903, July 26. 196 Salix.  

Not ab. Tree. 8 to 15 ft. high

R = Al-foo-hak

Saxic muticolor Tangent.

1903, July 27. 197 Allium dilatatum, L.  
Not ab. Rocky桢 classified. L. Clark.

R = Noo-yah-Kut'ah

It is often raven, steamed, mixed with meat and fish, etc.

198 Allium cillian.  
Not ab. = Non-thin-gi.

Scenaria arctica.  

199 Salix.  

R = Kala-kakka

200 Festucaceae.  
Scrub. Hol. of L. Clark.

K = Kich-chun

This grass is used for mats in warm climates.
Mossy borders of beargrass. Ht. of L. Clark.
Not ab. \( \text{[Kuk-chun-chill-lah]} \)

"203. Empetrum virginianum, L. ssp.
Very rocky. Often party slopes 1500 ft. above S.L.
\( \text{[Kuk-Rokh-nah Thop-kah-ah]} \)

"204. Podicularis
Open rocky slopes 1500 ft. above Sea Level.
\( \text{[Kin-dhaj-Kath-ah]} \)

"205. Vaccinium uliginosum, L.
Low bush. Often party slopes 1500 ft. above S.L.
\( \text{[Chah-toon-geek-ah]} \)

"206. Phlomias alpina, L.
Open rocky slopes 1500 ft. above S.L.
\( \text{[Kuk-chang-Kath-in]} \)

"207. Vaccinium uliginosum, L.
Low bush. Often party slopes 1500 ft. above S.L.
\( \text{[Chah-toon-geek-ah]} \)

"208. Actaea arguta, Hitt.
Most woods 600 to 1500 ft. above S.L.
\( \text{[Chah-toon-geek-ah]} \)

\( \text{[Ichnea rubra (Rch.) Willd.]} \)
1908
July 28 209

Pectocca rubra L.

W. side Hdl. of L. Clark

210
Pectocca

Sandy shores W. side Hdl. of L. Clark

R = Tiel-thrill-whin-a

Bromus pacificus Michx.

211
Boragina glabra, C.A. Mey. ex O. Berg

Open ponds and seepages W. to 2000 ft. On sand in ruts of Alaska

Ants on stems Pica canadensis

R = Schwedler

Vita. Hdl. of L. Clark

July 29 212

Vitta vulgaris L.

Flat

On sand-Harmones W. side Hdl. of L. Clark

Not aphy

Haring appearance of plant when grown in deep muddy banks.

213

Pica canadensis (L.). B.S.P.

Petioles 6 ft. W. side Hdl. of L. Clark

Measured 2 trees the largest I could find on

grassy hills W. side Hdl. of L. Clark, one about 25 in. in diameter, tree taken

from in one 126 years old, 56 ft. high by 12 in.

Vita. canadensis (Michx.) B.S. P.

July 29 214

Utricularia

Open ponds, seepages W. side Hdl. of L. Clark

Utricularia vulgaris L.

215

Marchingis lateriflora (L.). Kuntze

W. side Hdl. of L. Clark

July 29 216

Senecio subrobustus DC.

Rocky cliffs, Open on E. Hdl. of L. Clark

Race

Senecio resedifolius Less.
July 29 217 Primula
Dry rocky cliff, Canyon E. Side HD. of Lake Clark
Androsace chamaejasme Hook.

July 30 222 Calamagrostis
Open woods, thillside, E. Side HD. of Lake Clark
Alb. Calamagrostis laungdorpii Kim.

218 Saxifraga
Dry rocky cliff, Canyon E. Side HD. of L. Clark
So probably named as No. 151.
Saxifraga bicornis L.

219 Viola biflora L. &
Dry rocky cliffs, Canyon E. Side HD. of Lake Clark Viola gracilis Nutt.

July 30 220 Calamagrostis
Alb. Stipes thillside in open woods E. Side HD. of Lake Clark Calamagrostis canadensis (Mei) Beauv.

221 Poa
Sandy slopes of rockslide E. Side HD. of Lake Clark Poa pratensis L.

222 Calamagrostis
Open woods, thillside, E. Side HD. of Lake Clark
Alb. Calamagrostis laungdorpii Kim.

223 Rubus trigosus, Michx.
Open woods E. Side HD. of Lake Clark

224 Hypochoenus ericoides, L.
Sedgegrass woods, E. Side, HD. of L. Clark
This is the chief Hypochoenus here.

225 Elymus
Sandy lake shores, HD. of Lake Clark Elymus repens (L.) Beauv.

226 Elymus
Sandy lake shores, E. side, HD. of L. Clark
Agropyron violaceum (Kun) Beat.
I am now out 4 wks. 12 days and have collected 227 species which probably includes 1805 species an average of 5% specimens per day.

228 Allium sativum L.

229 Cornus stolonifera L.

230 Rhinanthus cristagalli L.
V. ab. = Nakil-nara-thqa-thoo-nah
The dried leaves are boiled and the decoction drunk in lieu of tea.

" 236. Myrica gale L.
V. ab. = Mosch River (near mouth)
Ab. = Klein-ah-loo
The stems and leaves are boiled and the decoction drunk as a remedy for coughs and weaknesses.

Aug 4 237. Epilobium Lentiscum Parry, or f. ab. = Wet cold springs, Noghelink River
Ab. = It-by-tool-Ko
The leaves and stems are dried and used in lieu of tea.

" 238. Dryopteris
Not ab. here = It-by-tool-Ko
Not the same fern as above, but still cold springs, Noghelink River

Aug 7 241. Equisetum sylvaticum L.
Moist woods Noghelink Trail
F. ab. = Dryopteris spinulosa dilatata (Wedd.) Underw.

Aug 4 240. Sphagnum
Tundra moss, rocks, W. side S. Clark.
V. ab. = Not quarried in many localities for quilted or other stuff (dried and)
As used of the Indians as a padding or ceiling for the bottom of teek' kah teets (in which house is carried).
At children a bed of this moss is usually covered with a blanket made of wool in part of the fine and the patient placed upon it until a serious perspiration is produced.
So far as could be learned this practice appears to be followed NOW as a long established tribal custom, rather than for any beneficial effect which it is expected to produce.
Ab. = It-by-tool-Ko
Ab. = Nong-Koo-yah

Aug 7 241. Equisetum palustre L.
Moist open woods Noghelink Trail
Ab. = The gliding brown leaves section of the stem of this plant is used to ornament the baskets (for use) made by the Nalch'k'nah, by being wound with the fine spruce barks of which the baskets are made, thus producing a variegated pattern.
Ab. = Chi-ch'yo-rheth-a
Brown stuff = Thalh-thaash-ah

242a. Equisetum sylvaticum L.
Aug. 3. 243 Rorbus.
Moist alpine rocks. Chuteau River.
Not at 40-B. N. 400 yds. W., 13. 145 ft. high.
Hegewisch insists that this is not the same as Nos. 400. 770. Call it Kunk-ka-nzah, while they call 400-770.
Kunk-ka-nzah.

Aug. 9. 244 Piceas.
Drained flats.
Nogaheling Trail.
Tree is 168 yrs. 43 ft. 7 in. high.
Width, 9 in.

Has abn. long cones like P. occidentalis.
Was odorless and has short foliage like P. Mariana.

Picea canadensis (Murr.) 28. P. 82.

Aug. 13. 245 Pedicularis parisonflora. E. P. Smith, ok.
Not at margins of ponds. Nogaheling Trail.
Not at margins of ponds. Nogaheling Trail.

Mostly submerged as rising to heavy rains of the past 10 days.

Pamphletus calypolus. Presl.
Nogaheling Trail.

Nogaheling Trail.

Not on Dry slope. Ridge in tundra.

246 Noccaea juncia. L. ok.
Saxiphage hisculus. L.

247 Cornus suecica. L. (Fruit)

253 Saxifraga hisculus. ok.
Not at Pond margins. Nogaheling Trail.

252 Pedicularis parisonflora. E. P. Smith. ok.

This plant is from 3 to 10 ft. high here. It is so abundant as to make the branches bear from almost to the ground.

Aug 21, 259 Seaweed picked up in a trap across Port Townsend Flats at low tide. Submerged under 20 feet of water at high tide.


264 Hoott-Koh-ah-dhooll-yaa

The roots of this fern are boiled or cooked on hot stones and then eaten both in Spinking Point. The roots are also boiled in sugar and set to a decoction which is then allowed to stand until fermentation takes place when it is drunk in lieu of whiskey or hoochins. The roots are also sometimes fermented with sugar and flour to make or molasses from them in making hoochins.

24 265. Sorcery, Pseudo-virginia, lava. Shingle Beach. Iliamna Bay. Not ab. This fevery compost was not yet in bloom on July 13th. But in Aug. 24th 6 weeks later it had already matured its fruit which is now disappearing. Genus pseudo-virginia, sect. ?

266. Matricaria (dyspepsia, D.C. Foster. Vicarius, Point. Iliamna Bay. Not ab. Open places about all old Indian villages and old camps. Iliamna Bay.

K = At lee-nessh-kan. This is the most abundant introduced weed in the whole region. Matricaria dicroida 26.
Aug 26 273, Dry woods, Cottonwood Bay, Not at.

274, 7', 7o 9y.

275, Dry woods, Cottonwood Bay, Not at.

Sept 25, Open woods, moist gulches, 7', 7o 9y.

Jan 26 277, P. maritimus var. neptunus, or strongly sea beachy, Cottonwood Bay, Not at.

278, Woodia, Rocky cliffs, Hecum Point, Not at.

279, Asmaria, rocky or rocky cliffs, Hecum Point, Not at.

31, 280, Woodia, Dry rocky cliffs, S. of Hecum Point, Not at.

281, Artemisia calida, Hauss., Lede. Sandy rocky slopes above high tide line, S. of Hecum Point, Not at.

Note: Artemisia silicic Lede.
Sept 7 288  Oryzopsis digyna (L.) Eup tepa. _f._ alb. Rocky slope S. of Diamina Point
  Not alb.

The leaves are eaten both raw spoiled or the dried stover are mixed in lieu of toto.

Brevilegium myosuroides Brid.
  4 283 (Brevilegium myosuroides L.)
  Not alb. Moist old. woods
  Diamina Point

  " 284  Reacontiurn
  "  "  "  Rock old. talus slopes
  "  "  "  Not alb. Diamina Point

This moss is usually the first vegetation to obtain a footing on rock. slopes & talus slopes is followed in due course by Ephesterium, Rudera etc.

6 285
  Most alb. moist. rocks
  Diamina Point

14 280 Picea Sitchensis (Bong.) T. & W. Hillside slopes just below sea level up to about 800 ft.
  Alb. Ellamar (Gladkaug Bay)

From what I observed in this bay I judge P. Sitchensis to constitute guy 50 to 60 % of the shrubbery. I saw 5% P. sitchensis, about 25 - 30 % and P. Montana for 5 to 20 % but P. Montana in the prevailing tide on the sphenium marshes.

V. D. sitchensis (Bong.) Frant. &
Sept 14 291 Tsuga heterophylla (Raf) Sargenti
Ellisonar (Hudson Bay)

One tree of this species observed here measured
3½:2½ (2½:1½ diam.) brass high.

297 Tsuga heterophylla (Raf) Carr. (Ellisonar (Hudson Bay)
This was the only copper found growing in the
sphagnum marshes. One tree of this species
which had quite small) observed was measured 3½:2½
= 1½:1½, 2½ diam. brass high.

1902.
Nov. 14 295 Microporis
Ellisonar (Hudson Bay)

Luzorenella borealis (Forr. & Brey.)

July 3 296 Diaepicenia
Ellisonar (Hudson Bay)

June 23 297 Arica alpina (L.) Plin.
Ellisonar (Hudson Bay)

July 3 298 Cassiope
Ellisonar (Hudson Bay)

July 28 299 Gentiana
Ellisonar (Hudson Bay)

Now in ripe fruit.

Ramusculus echscholtzii Schlecht.


29 302. *Cardacium*. Rocky cliffs. S.E. side

Hd. of Lake Clark

No probably comes as No. 6.

Tratia hypata occidentalis Wats.

" 303. *Silene acutilis* var.

Rocky cliffs. S.E. side

Hd. of Lake Clark

Silene acutilis L.

" 304. *Cerastium Beringianum* C. F. No. 18.

Rocky cliffs. S.E. side

Hd. of Lake Clark

Cerastium vulgatum L.

" 3 305. *Silene acutilis*. No. 28.

Sunti Creek banks. Jinkel-Yak Trail

1903.


Hmanna Point


f. alb. Sunti Creek banks. Hd. of H. Clark

Xol-yam-bok'-ah

6 308. *Potentilla*. No. 11. rocky cliffs. Hmanna Point

Potentilla silvosa var.

29 309. *Hemionov ramunculifolia* (Hooker) Ref.

Rocky cliffs. S.E. side

Near Hd. of H. Lake Clark

Saxifraga cinerea L.


Rocky cliffs. S.E. side

Near Hd. of H. Lake Clark

Saxifraga sigillifera Stand.


Dry rocky cliffs. Hmanna Point
Noted: Rocky cliffs—N obkeling Rapids
Sapraga rufescens L.

Aug. 4 313. Epilobium
Fab. About cold springs. N obkeling rapids
Epilobium longifolium Haukasaun.

July 23 314. Potentilla
Noted: Sandy shores upon tendua—Foot of lake Clarke
Collected from a small tree, about 15 ft. high.

July 10 315. Agrostea
Noted: Open, rocky slopes. Mission Point
Agrostea rubra L.

Aug. 13 316. Juncus stipites, L.
Noted: Margins of pond. N obkeling trail
A very slender form of this species—
Juncus biglumis L.

1903.
Sept. 13, 317. Lithrea pectinata (Hook.) kuntze.
Noted: Open grassy slopes, foot of bedrock
Mission Point, ridge E. of N obkeling Point
Lithrea pectinata (Bruce) kuntze.

July 19
Fomes ignarius (Jacq.) Frei
FUNGUS FROM BIRCH TREE (Potentilla anserina, Sargent) — N obkeling Trail
The dry, mature fruiting bodies scattered
The fungus is gathered by the natives of this
region. — N obkeling Point, N obkeling and
N obkeling — placed in a flat stone
or piece of old tin in a bright fire
and slowly burnt until it assumes
almost a white heat. It is then
carefully removed from the fire and
on cooling falls into a fine gray ash
of the keenest perfume and acid taste.
This ash is collected and carried in
a calabash pot for future use, and
the liquid of tobacco after being moist-
ened is rolled in it before being placed
in the mouth.
On being removed from the mouth
the gilded is placed in a gilded box.
[Tabacch-fuille, made of] white, carbon-bone or walnut-ivory, in which there is a small quantity of this ash and is there kept till again required — 20 cts.