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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

ATTU



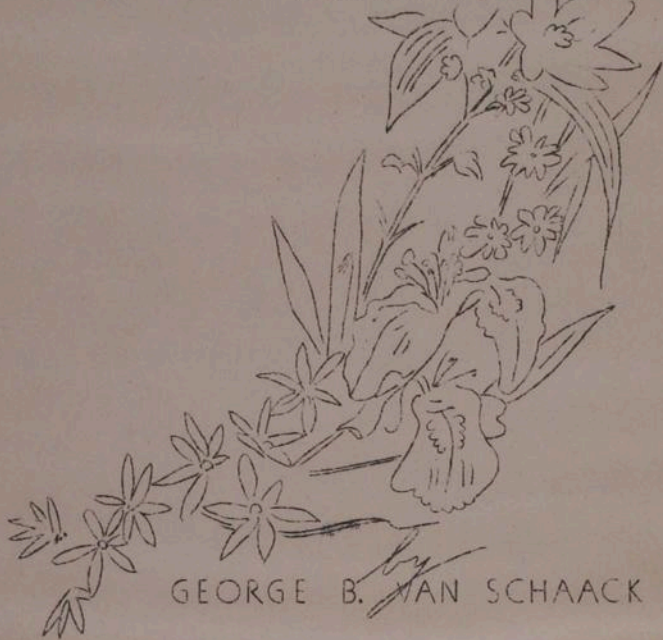
ATTU ISLAND
SCALE 1:115,200

PREPARED BY: POST 5-2, 6 3-3

FILE NO. N178P-532

814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875

Flowers
OF ISLAND X



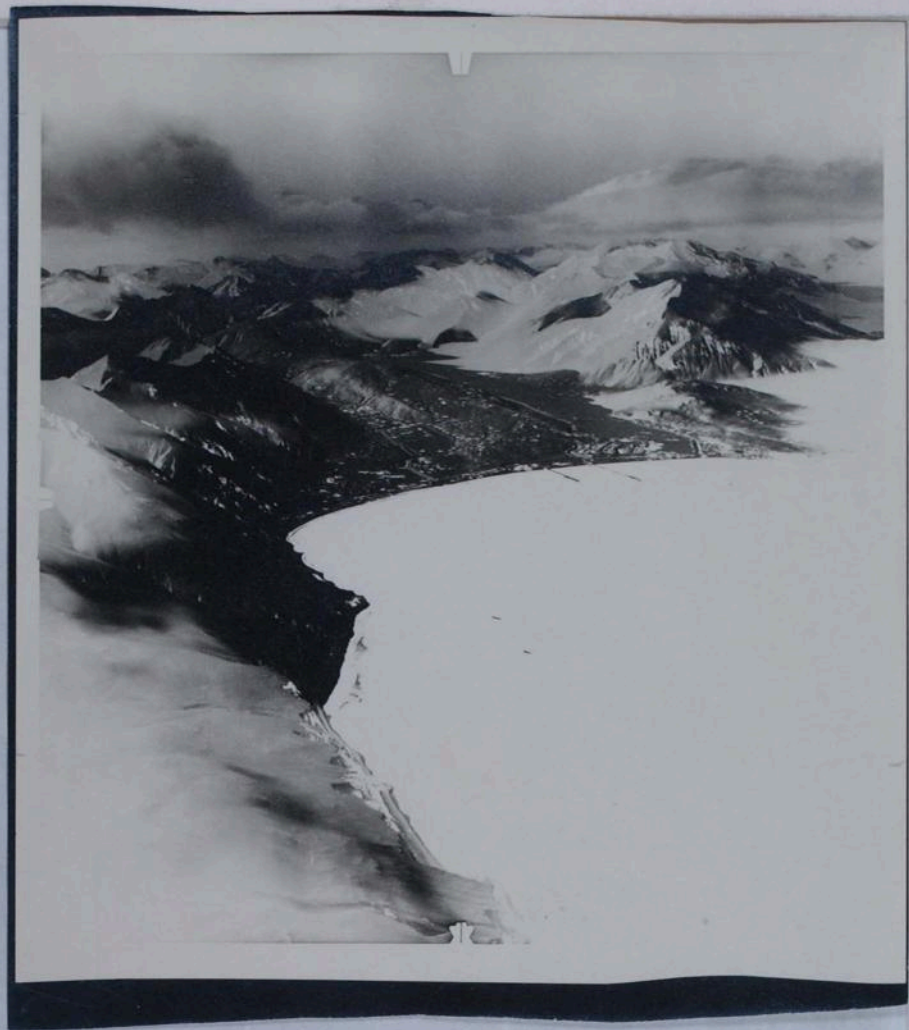
by
GEORGE B. VAN SCHAACK

VANDERGRIFT

Am. Bot. - Alaska - Alta - V.S. Sault, Monday 9

X	non-gram		Gram	
	complete	grasses		
I	540	282	58	To Gray 2/5/54
II	267	213	44	in grass + non-gram to M. S. G. 4/56
III	308	254	54	To Killip 2/5/54
IV	290	224	66	To Kew 7/54
V	234	185	49	To Univ. Wash 2/54
VI	234	186	48	
VII	206	161	45	
VIII	197	155	42	To Edinburgh 4/54
IX	152	116	36	
X	132	93	39	
XI	108	71	37	

<u>XII</u>	26	52	34	Leningrad 7/54
<u>XIII</u>			32	
<u>XIV</u>			31	
<u>XV</u>			29	
<u>XVI</u>			26	sent to Univ. Zurich 4/56
<u>XVII</u>			22	
<u>XVIII</u>			22	



	<u>1228</u>		
13	12	13	7
14	12	12	7
15	11	12	6
16	10	12	4
17	8	12	2
18	8	17	2
	61	73	28

from 52 48
347 299

Plants at Attn acc. to. Hueten, not found 1944.

149. *Allium victorialis* *platyphylla*
156. *Cypripedium* *guttatum* ✓
159. *Coelogyllum* *viride* ✓
160. *Platanthera* *Chorizantha*
161. *Platanthera* *dilatata*
168. *Liclera* *cordata* ✓
174. *Salix* *crassifolia*
175. *Salix* *ovalifolia*
199. *Claytonia* *chamissoi* ✓
201. *Montia* *laevisperma* ✓
202. *Stellaria* *calycantha*
221. *Mimuartia* *macrocarpa*
237b. *Ranunculus* *acris* *frigidas* ?
242b. *Ranunculus* *Nelsonii* *incularis* ?
245 *Ranunculus* *reptans* ✓
247a. *Ranunculus* *trichophyllus*
251. *Sulularia* *aquatica*
254. *Barbarea* *orthoceras* ✓
256. *Cardamine* ~~*Regiana*~~ *bellidifolia*
258. *Cardamine* *Regiana*
271. *Drosera* *rotundifolia* ✓
286b *Saxifraga* *punctata* *incularis*
287 *Saxifraga* *simularis*

292. *Chrysopsisium Beerlingianum*
326. *Viola spiculata repens*
329. *Epilobium angustifolium*
330. *Epilobium Beerlingianum*
331. *Epilobium Bongardi*
332. *Epilobium glandulosum*
335. *Epilobium sertulatum*
340. *Hypoxis vulgaris* ✓
359. *Phyllocladon coerulea*
373 a *Primula cuneifolia saxifragolia* ? ✓
373 b *Primula cuneifolia Dubayi* ? ✓
392. *Mertensia asiatica*
402. *Cactilleja pallida*
420. *Galium aparine*
422. *Galium latifolium columbianum*
454. *Artemisia unalascensis*
475. *Taraxacum trigonolobum*

Alutkian plants listed in Hulten as not having been found
in situ, but found there 1944 or 1945.

204. *Stellaria crispa*
210. *Cerastium aluticum*
227. *Muphar* sp. ?
235. *Anemone Richardsonii*?
263. *Draba hyperborea*
264. *Draba karelica*
276. *Saxifraga alutica*
277. *Saxifraga bracteata*
285. *Saxifraga oppositifolia*
302. *Potentilla* { ^{emarginata} or ^{nana} }?
311. *genum rossii*
372. *Oxyruncus microcarpus*
384. *gentiana auriculata*
403. *Castilleja malacitensis*
404. *Euphasia mollis*
438* *Erygonon perenne*?

March 8, 1954

Dear Mr. Hubbard,

Thank you for your letter of January 18th in regard to my exchange offer of Attu plants. Our own exchange here has become so restricted that I understand even the mere your wish not lightly to relinquish grass duplicates. So I am very grateful to you for your decision to support the exchange. I have just written your Director to say that I have recently shipped to him one package containing 290 sheets. Better than 20% of these are grasses, so all is not lost! I trust there will be something among them of interest to your staff. Novelties in the Gramineae are not very plentiful in the Aleutians, although the species there are not too well defined, so perhaps there are novelties masquerading. Not without interest is a collection of a natural hybrid of *Elymus hirsutus* and *Hordeum brachyantherum*. There can be no doubt of the parentage, for there is only one *Hordeum* there and two species of *Elymus*, —and *E. mollis* could not have taken part!

I have noticed in the Index Herbariarum that Kew is especially interested in the exchange of co-types. You know, of course, that the Missouri Botanical Garden Herbarium contains the Engelman Herbarium, but perhaps you do not know that it contains as well the herbarium of George Thurber. Both of these men carried on very active exchanges with botanists all over the world. Accordingly not infrequently we have duplicate material of some of the early collectors. In sorting out type material among the Gramineae I have found a significant amount of duplicate material. We seldom have the holotype here, the material being co-types, or, as I have got used to calling them, isotypes. Would you be interested in exchanging any of these which you do not have, were I ever to get the time critically to examine the sheets we have? As you have observed my position is Honorary, which means that I earn my living elsewhere, curiously, perhaps, by teaching mathematics at Washington University. So the working out of such an exchange might be a project for years. However, I should be interested to know if it would appeal to you.

Sincerely yours,

George B. Van Schaack
Honorary Curator of Grasses

March 7, 1954

In reference D 103/1954

The Director
Royal Botanic Gardens
Kew, Richmond, Surrey
England

Dear Sir:

Thank you for your letter of January 19th in which you express your willingness to accept my Aleutian plants in exchange for grasses from Asia, Australia or Africa.

I have recently shipped these plants to you to the number of 290 sheets. I trust these will reach you in good order and that you will be satisfied with them as an addition to your collections.

Very truly yours,

George B. Van Schaack
Honorary Curator of Grasses

M.G.



ROYAL BOTANIC GARDENS
KEW
RICHMOND

SURREY

19th January, 1954.

All communications should be
addressed to—The Director,
quoting the following number:—

D 103/1954.

Dear Dr. Van Schaack,

In reply to your letter of 12th January addressed to Mr. Hubbard, we wish to accept your offer of an exchange of about 275 plants from Attu Island in the Aleutians for an equal number of grasses. The latter cannot be sent to you until later on in the year as we have to make up our duplicates into several sets and the labelling of these takes some time.

Yours truly,

A handwritten signature in dark ink, appearing to read 'E. Salisbury'.

(Sir Edward Salisbury, Director).

Dr. George B. Van Schaack,
Honorary Curator of Grasses,
Missouri Botanical Garden,
2315 Tower Grove Avenue,
St. Louis 10, Missouri,
U.S.A.

A handwritten mark or signature in dark ink, possibly initials 'G.B.' or a similar mark.



Habarin

ROYAL BOTANIC GARDENS
KEW

RICHMOND

SURREY

England.

All communications should be
addressed to THE DIRECTOR,
quoting the following number:—

1871/54

Dear Dr. Van Schaack,
Thank you very much for
your offer of *Atta* sp. plants in exchange
for grasses. I hope we shall be
able to accept your suggestion
although it uses up my duplicates
which I try to reserve for
grasses! A reply will be sent
by the Director.
Yours sincerely,
C. E. Hubbard

January 12, 1954

Mr. E. C. Hubbard
The Herbarium
Royal Botanic Garden
Kew, Surrey, England

Dear Mr. Hubbard,

I am currently sorting for distribution two large sets and one smaller set of plants from Attu Island in the Aleutians. These collections were made in 1945, and together they cover at least 95% of the known vascular flora and probably 90% of all vascular species on the island. I am tentatively reserving the fourth set for Kew should it be desired and should it be possible to arrange a suitable exchange. This set will number about 275 sheets, of which some 225 sheets will contain about 80% of the approximately 270 vascular species other than the Gramineae, the remaining 50 sheets covering all but one or two of the approximately 30 species of the Gramineae.

I am thus explicit about the composition of this set because it is not being sent out in general exchange from the Missouri Botanical Garden. The collections are my own property and I am anxious to exchange them as advantageously as possible for collections of grasses which I should deposit in the herbarium of the Missouri Botanical Garden. Our current exchange program is suffering acutely from lack of funds and assistance; with my interest so largely in the Gramineae I am adopting this method of continuing the inflow of grasses to as great an extent as possible.

Should you and Dr. Turrill wish to exchange grasses for this set of Aleutian plants I should like to express a preference for material from Asia, or Australia, or West Africa, in that order of preference.

With kind regards, I am

Sincerely yours,

George B. Van Schaack
Honorary Curator of Grasses

210

February 19, 1954

Mr. B. L. Burt
Royal Botanic Garden
Edinburgh 4
Scotland

Dear Sir:

In accordance with our recent correspondence I have prepared for shipment to you a consignment of 197 specimens of plants from the Aleutian Islands. This shipment will be made within a few days under the label of the Missouri Botanical Garden. I trust that in due time it will reach you safely and that the material which it contains will meet the expectations of the Regius Keeper.

I shall be glad to receive such British grasses as you may be able to send me in exchange. Grasses from Iceland or other northern islands would be equally acceptable. Any shipment of exchange specimens should be directed to me personally.

Sincerely yours,

George B. Van Schaack
Honorary Curator of Grasses

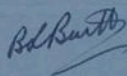
Royal Botanic Garden,
Edinburgh, 4.

19th January, 1954.

Dear Sir,

The Regius Keeper has asked me to reply to your letter of January 14th. It was not appreciated, when you wrote before, that you were willing to accept British grasses in exchange for your Aleutian Island plants. We shall be very glad to receive these plants in exchange for British material. A small consignment of British grasses will be sent off to you in the near future. During the coming season I shall see that your needs are remembered and hope it will be possible to bring the number of specimens sent to you up to about 200 by the end of the year.

Yours sincerely,



(B. L. Burtt)

Mr. George B. Van Schaack,
Honorary Curator of Grasses,
Missouri Botanical Garden,
2315 Tower Grove Ave.,
St. Louis Mo.

January 14, 1954

Professor Sir William Wright Smith
Regius Keeper
Royal Botanic Garden
Edinburgh, Scotland

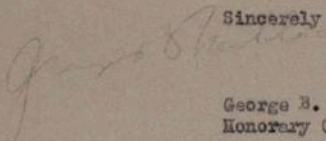
Dear Sir:

I should like to refer to your letter of February 24, 1953, regarding a possible exchange of my Aleutian plants for grasses of West China. Although you say that you have practically no duplicates of grasses available, I am wondering if you might have discounted my interest in grasses of the British Isles. Our herbarium contains not a single sheet of the Gramineae from Scotland or Ireland and very few from England. I should be very glad to accept grasses from these areas in exchange.

At any rate I am tentatively reserving for you set no. 8 of my distribution, which numbers about 165 sheets, including 30 of the Gramineae. This set contains representatives of about 50% of the vascular flora of Attu Island.

I am sorry to trouble you again, but I am anxious that you should have these Aleutian plants if possible.

Sincerely yours,


George B. Van Scheack
Honorary Curator of Grasses

Telephones:—

Dean 3203—Regius Keeper.

83011 }
83188 } Accounts Office & Laboratory.
89127 }

All communications should be
addressed to:—

THE REGIUS KEEPER.



ROYAL BOTANIC GARDEN,
EDINBURGH, 4.

24th February 1953.

Dear Sir,

I have received your letter of 16th February in which you offer your Aleutian island plants in exchange for material of grasses from West China. Although I should have liked to receive some of your plants (particularly the non-gramineous species), I regret that I cannot undertake the suggested exchange as I have practically no duplicates of grasses available. Our Chinese duplicates are largely from the collections of Forrest and Farrer, and these collections paid little attention to the grasses.

I have, however, made a note of your interests and should I find myself at a later date with material rich in Gramineae available for exchange, I shall send a set to the Missouri Botanic Garden.

Yours sincerely,

Regius Keeper.

Mr G. B. Van Schaack,
Missouri Botanic Garden,
2315 Tower Grove Avenue,
St. Louis 10,
Missouri, U.S.A.

February 16, 1953

Professor Sir William Wright Smith, Director
Royal Botanical Garden
Edinburgh, Scotland ~~Edinburgh~~

Dear Sir:

During the next few months I hope to distribute plants of Attu Island (Aleutian Islands) collected by myself and two friends of mine during 1944-45. These will be made up into sets of from 100 to 400 sheets. Although the larger sets will contain up to forty per cent Gramineae such a set will contain as well a representative cross-section of the vascular flora of the island (about 300 species). The smaller sets may be rather more heavily weighted with Gramineae since our collecting was concentrated on this group. These collections contain many species not before taken on the island. All of the critical material has been determined by specialists.

I notice in Index Herbariorum, recently issued, that your herbarium has available for exchange plants from Western China. I am wondering to what extent you would wish to send me Gramineae from there in exchange for plants from Attu. Perhaps you also have available Gramineae from other regions in which I would be interested.

The plants I have to exchange are my personal property and exchange should be addressed to me rather than to the Missouri Botanical Garden. However, such plants as I receive in exchange I turn over to the Garden for its use.

Very sincerely yours,

George B. Van Schaack
Honorary Curator of Grasses

February 19, 1964

Dr. C. Lee Hitchcock
Department of Botany
University of Washington
Seattle, Washington

Dear Dr. Hitchcock,

Finally I am in a position to repay you for the set of Hardy's Attu plants which you sent me several years ago. I believe that the number of sheets which you sent was 230 although I cannot find any record of such a number. I also remember that it was understood I should repay the exchange with plants from my own and Soule's Attu collections. I trust this is still agreeable to you for I have prepared for shipment to you a set of 234 sheets of such plants. This shipment, to be made in a single carton, will go out to you within a few days. It will be sent under the shipping tag of the Missouri Botanical Garden, although my name will appear upon the tag.

I wish you could come here some time to visit us. Unless you come soon I am afraid you will find everything quite changed. The library girls speak fondly of you, but they are not growing younger and how much longer we can hold them I don't know.

Please give my greetings to Mr. Thompson, whose yeoman work in Washington so greatly enriched this herbarium.

Cordially,

George B. Van Schaack

February 19, 1954

Dr. Reed C. Rollins
Gray Herbarium
Harvard University
Cambridge, Massachusetts

Dear Dr. Rollins:

Thank you for your letter of January 20 regarding my plants of the island of Attu which I offered to you in exchange. I am quite willing to accept the exchange offer which you made in that letter, expecting that it will be some time before you will be able fully to repay the exchange.

I am accordingly shipping you within a few days two cartons containing 340 sheets. I hope that this shipment will reach you safely. It will be sent under the shipping tag of the Missouri Botanical Garden, upon which my name will also appear. Exchange material, however, should be directed to me personally.

Cordially yours,

George B. Van Schaack
Honorary Curator of Grasses

Gray Herbarium



Harvard University

REED C. ROLLINS, DIRECTOR
ROBERT C. FOSTER, ACTING CURATOR
FRANCIS WELLES HUNNEWELL, RESEARCH ASSOCIATE
EDITH SCAMMAN, RESEARCH ASSOCIATE

A. HUNTER DUPREE, RESEARCH FELLOW
MARJORIE W. STONE, LIBRARIAN AND BIBLIOGRAPHER
PATRICIA A. LEWICKI, ASSISTANT BIBLIOGRAPHER
MICHAEL CANOSO, HERBARIUM ASSISTANT

79 GARDEN STREET
CAMBRIDGE 38, MASSACHUSETTS, U.S.A.

January 20, 1954.

Dr. George B. Van Schaack,
Missouri Botanical Garden,
2315 Tower Grove Avenue,
St. Louis 10, Missouri.

Dear Dr. Van Schaack:

Thank you very much for your letter of January 14. Of course we would dearly love to have the material you mention from Attu Island. Our relatively large holdings of North American Arctic material as well as quite a bit of Siberian Arctic material and Sub-Arctic material makes this collection of greater value to us than to some other institutions. My problem, of course, is to be able to return to you in exchange the particular coverage you request. We would make a very strenuous effort to do so but I am afraid I could not promise to accomplish this in a short time. We do have some African, some South American, and a few collections from the Near East, that have Gramineae in them. We would be willing to pull these out as we can get around to working over the material. However, it would take some time and I doubt whether we could repay you within a year, partly because as you may know we are moving from this building and that will occupy a good deal of time, for the next six to eight months. However, if you are willing to wait a few years for the full repayment we would do the best we could to satisfy your needs.

Cordially yours,

Reed C. Rollins

Reed C. Rollins.

RCR:c

January 14, 1954

Dr. Reed C. Rollins, Director
Gray Herbarium
Harvard University
Cambridge, 38, Massachusetts.

Dear Dr. Rollins,

I am currently sorting for distribution two large sets and one smaller set of plants of Attu Island, collected by myself, by Gilmore W. Soule, and by Robert Hardy, all in 1945. First distribution sets of these three were made several years ago, respectively to the United States National Herbarium, Iowa State College, and the University of Washington. In the present distribution the three sets have been amalgamated. In this form they represent at least 95% of the known vascular flora and probably 90% of all vascular plants of the island. The first set of this distribution will contain 350-375 sheets, of which about 275 will be of non-graminaceous plants.

Dr. R. M. Tryon has suggested that this first set should go to the Gray Herbarium. I should be pleased were the Gray to find it possible to accept this set upon the terms which I should like to propose. The plants are my property, and are being distributed by me rather than by the Missouri Botanical Garden, such exchange as I can arrange, however, to be presented to the Garden. The fly in the ointment is that the only exchange I wish to accept is Gramineae, and that only from without the United States and Canada, and Europe.

I hope that you will find some way to accept this proposal. I shall be pleased to hear from you.

With cordial regards,

Sincerely yours,

George B. Van Schaack
Honorary Curator of Grasses

January 14, 1954

Dr. Rogers McVaugh, Curator
The Herbarium, University of Michigan
Ann Arbor, Michigan

Dear Rogers,

In accordance with our conversation at Madison last September I have examined Jordal's mss. on Aleutian plants with regard to new entities proposed. He proposed only three, two of which are forms, with the publication of which I should not wish to be connected. The third is proposed as a new species, Minnertia aleutica, which he mentions as being related to M. biflora (L.) Schinz & Thell. He cites only one specimen, Jordal & Miller 3233, deposited in your herbarium. I suspect this is the same as several sheets of my own and Coule's collections, part of which were determined by Hulten as M. biflora. I am unable to use Hulten's key in his Flora of Alaska and Yukon to reach his determination, which makes me feel that perhaps Jordal was right in recognizing a new species. But I have neither the material nor the necessary acquaintance with this difficult group to decide the question. Do you know any one in this country who has these two qualifications,—with, perhaps, the third, namely, interest?

I am currently sorting my own, Coulets and Hardy's collections from Attu for distribution. I am tentatively reserving set # 6 for Michigan should it be desired and should it be possible to arrange an acceptable exchange. The set will contain about 225 sheets, comprising between 60 and 70 percent of the species of vascular plants of the island. These plants are my own property and I am distributing them with a view to obtaining for them the best possible exchange in Gramineae. Any exchange will then be deposited here at the Garden. I am particularly anxious to get grasses from Mexico, and wonder if you can offer such for this exchange. Gramineae from other parts of the world not the United States, Canada or Europe would also be acceptable.

With greetings to Ruth and a happy New Year to all of you,

Sincerely yours,

George B. Van Schaack
Honorary Curator of Grasses

Partial list from Hudson

Distribution:

Topfieldia coccinea. Jap., C.I., Alut., S.E. al., Can.

Veratrum album var. oxycephalum. Kam., C.I., W. Aleut., not
in mid. or E. Aleut.

→ Maianthemum dilatatum. Jap., Kam., C.I., W. Aleut.,
S.E. al., not in mid. or E. Aleut.

{ Litellaria caucashatensis. Jap., Kam., C.I., Aleut.,
S.E. al.

Streptopus amplexifolius. Jap., Kam., Aleut.,
S.E. al., U.S.

Iris setosa. Jap., C.I., Aleut., S.E. al.

Archis anictata. Jap., Kam., C.I., Aleut., al. peninsula.

Platanthera hyperborea var. dilatataoides. Jap.,
Kam., Aleut., S. al., Canada, U.S.

Platanthera tipuloides. Jap., Kam., C.I., Alta.

Rumex fenestratus. Aleut., along coast to Wash.

Oxyria digyna. Japan, C.I., Alaska, U.S. (also in many other parts of northern Hemisphere).

Polygonum viviparum. Japan, C.I., Aleutians, U.S. (New Hampshire).

Claytonia sibirica. C.I., Aleut., S. Al., W. U.S.

Stellaria crispata. E. Aleut. along coast to W. U.S.
Hulten reports none from W. Aleut. My specimens as identified at Lenthornian.

Stellaria media. Throughout the world.

Stellaria rotundifolia. Kam., Aleut., to W. U.S.

Cerastium aleuticum. Aleut. only.

Cerastium fischerianum. Kuriles, C.I., Aleut.

Luzula intermedia. Arctic to subarctic regions,
mountains of W. U. S.

Honkenya peploides Aleut., and generally on north
temperate and arctic shores throughout the
northern hemisphere. Also on salt soil in W. U. S.

Mochlisma latiflora. Central Russia, ^{+ eastern} northern Siberia,
Aleut., Calif., N. Mex., Ill., Penn., N. J.

Coptis trifolia. Jap., C.I., Aleut., Canada, U. S.

Acronitum maximum. Jap., Kam., C.I., Aleut.

Anemone narcissiflora var. villosissima. China, Jap.,
Kam., Aleut., Colorado.

Houckarya peploides. Specimens with mature
seeds are needed. (Hn 172)

Tofieldia coccinea. Hulten believes all Tofieldia here
is T. coccinea. From my specimens Hulten is not so sure,
being inclined to think T. nutans may be here.
Plenty of specimens from several areas should be
collected.

Examine *Cuscuta* *laevellata* for stamens
might be 4 only.

Received new *Cuscuta* as having 6 stamens.

Collect *Veronica stelleri* - same sp. may prove to
be *V. Moushjalajii*.

Look for Elymus hirsutus west of Abu vill age, late
July.

Look up Festuca (ovina) brachyphylla in 5 + m.

Note 'Cerastium albidum' specimens may be
C. Beringianum - therefore collect widely.

Look for Claytonia Chamissoi on Chichagoff Is. .
Moulinia lamprocarpa " " " " .

Reread carefully.

147. *Tofieldia coccinea* (possibly two species)
149. *Allium victorialis* to be looked for
155. *Iris setosa* watch for variations
156. *Cypripedium guttatum* to be looked for
159. *Coeloglossum viride* " " "
160-165. *Platanthera* Collect in quantity & note characters carefully.
168. *Listera cordata* to be looked for
191. *Rumex fruticosus* may be another sp. here.
197. *Polygonum viviparum* Re seeds & propagation
199. *Claytonia chaumissoni* to be looked for
201. *Montia lamprocarpa* " " "
202. *Hellaria calycantha* " " "
204. " *virga* Collect in quantity - not in H.
209. " *setifera* Check characters
210. *Cerastium albertinum* Collect in quantity - not in H.
212. *Cerastium caespitosum* Cosmopolitan not found here so far.
213. " *fisheri* Check characters.
215. *Sagina crassicaulis* on Agassiz - should be here.
~~217.~~ # Note characters.
221. *Mniocystis macrocarpa* to be looked for
223. *Homckya peploides* Collect fruit.
230. *Coptis trifolia* Note variation.

Reread carefully - cont.

- | | | |
|------|---------------------------------|-------------------------------|
| 232. | <i>Asarum maximum</i> | two forms. |
| 237. | <i>Ranunculus acris</i> | varieties |
| 240. | " <i>schubertii</i> | Note variation |
| 242 | " <i>nelsonii</i> | Note variation |
| 244. | " <i>repens</i> | Perhaps here - in C.T. |
| 247. | " <i>trichophyllus</i> | to be looked for |
| 249. | <i>Papaver alaskanum</i> | Perhaps here |
| 251. | <i>Hibularia aquatica</i> | to be looked for. |
| 252. | <i>Aphragmus Schubertianus</i> | Perhaps here - on high peaks. |
| 253. | <i>Cochlearia officinalis</i> | On Agattu - perhaps here. |
| 254. | <i>Barbarea orthoceras</i> | to be looked for |
| 256. | <i>Cardamine helleborifolia</i> | " " " " |
| 257. | " <i>pratensis</i> | Perhaps here |
| 258. | " <i>Regeliana</i> | to be looked for |
| 259. | " <i>umbellata</i> | Collect for variation. |
| 260. | <i>Draba aluticæ</i> | Perhaps here - high peaks. |

Labels written
End of notebook

Grasses from Aleutian Islands collected by Van Shaack

- 5 390 ~~✓~~ Poa annua L.
- 4 404 ~~✓~~ Phleum alpinum L.
- 494 -- Hierochloa odorata (L.) Beauv.
- 4 495 -- Festuca rubra L.
- 498 -- Poa arctica R. Br.
- 502 -- Poa komarovii Roshev. (probably)
- 3 557 -- Festuca rubra L. var. lanuginosa Mert. & Koch.
- 4 558 -- Festuca rubra L.
- 5 565 ~~✓~~ Deschampsia atropurpurea (Wahl.) Scheele
- 3 584 -- Poa arctica R. Br.
- 7 587 ~~✓~~ Festuca ovina var. brachyphylla (Schult.) Piper
- 4 590 ~~✓~~ Poa annua L.
- 626 -- Deschampsia atropurpurea (Wahl.) Scheele
- 627 -- Deschampsia atropurpurea (Wahl.) Scheele
- 628 -- Poa arctica R. Br.
- 628 ~~✓~~ Deschampsia atropurpurea (Wahl.) Scheele (in part)
- 629 -- Glyceria kantschafica Kom.
- 5 630 ~~✓~~ Deschampsia caespitosa (L.) Beauv. *D. harringtonii* Hitchc
- 640 -- Poa annua L. probably (depauperate, spikelets not developed)
- 5 642 ~~✓~~ Festuca rubra var. kitaibeliana (Schult.) Piper (form with large spikelets referred to by Piper. Contr. U. S. Nat. Herb. 10: 23. 1906. F. rubra var. barbata (Schrank) Hack. in Hultén)
- 4 643 ~~✓~~ Bromus aleutensis Trin.
- 4 644 ~~✓~~ Phleum alpinum L.
- 644 ~~✓~~ Agrostis mertensii Trin? (awnless form?)
- 646 -- Poa hispidula var. aleutica Hultén
- 647 -- Poa lanata Scribn. & Merr.
- 654 -- Trisetum spicatum (L.) Richt.
- 4 655 ~~✓~~ Poa brachyanthera Hultén
- 4 656 ~~✓~~ Deschampsia caespitosa (L.) Beauv. (immature and dwarf) *aff. orientalis* Hitchc
- 665 663 ~~✓~~ Deschampsia caespitosa (L.) Beauv. *aff. orientalis* Hitchc
- 664 -- Trisetum spicatum (L.) Richt. *same as 663*
- 4 673 ~~✓~~ Poa lanata Scribn. & Merr. (rhizomes and webby)
- 674 -- Poa arctica R. Br. (rhizomes, aborted 2nd lower branch)
- 5 675 ~~✓~~ Hordeum boreale Scribn. & Smith
- 4 677 ~~✓~~ Poa eminens Presl
- 3 690 ~~✓~~ Phleum alpinum L.
- 3 692 ~~✓~~ Deschampsia caespitosa (L.) Beauv. *aff. orientalis* Hitchc
- 4 700 ~~✓~~ Deschampsia caespitosa (L.) Beauv. *D. harringtonii* Hitchc
- 3 715 ~~✓~~ Trisetum spicatum (L.) Richt.
- 716 -- Deschampsia atropurpurea (Wahl.) Scheele
- 717 -- Deschampsia flexuosa (L.) Trin.
- 722 -- Agrostis mertensii Trin. (awned)
- 4 724 ~~✓~~ Glyceria kantschafica Kom.
- 4 725 ~~✓~~ Calamagrostis canadensis var. scabra (Presl) Hitchc
- 4 726 ~~✓~~ Deschampsia caespitosa (L.) Beauv. *aff. orientalis* Hitchc
- 4 729 ~~✓~~ Agrostis exarata Trin.
- 5 730 ~~✓~~ Poa hispidula Vasey

4 645
Poa arctica

665

4 726

Agrostis to be named

Pohlia arctica

- 4 731 ~~Calamagrostis canadensis var. scabra (Presl) Hitchc.~~
- 5 735 ~~Festuca rubra L. (dwarf)~~
- 736 -- ~~Festuca ovina var. brachyphylla (Schult.) Piper~~
- 737 ~~Agrostis mertensii Trin. ? (no palea, awless)~~
- 738 -- ~~Trisetum spicatum (L.) Richt.~~
- 4 758 ~~Deschampsia caespitosa (L.) Beauv. *D. baringensis* Nutt~~
- 4 759 ~~Poa pratensis L.~~
- 4 760 ~~Agrostis mertensii Trin. (awned)~~
- 4 761 ~~Agrostis (to be named, no palea, awless) *not seen?*~~
- 3 762 ~~Poa eminens Presl *not entirely*~~
- 3 763 ~~Trisetum spicatum (L.) Richt.~~
- 4 764 ~~Festuca rubra L.~~
- 4 767 ~~Poa hispidula Vasey~~
- 4 768 ~~Festuca rubra var. kitaibeliana (Schult.) Piper~~
- 5 769 ~~Calamagrostis canadensis var. scabra (Presl) Hitchc.~~
- 4 770 ~~Dactylis glomerata L.~~
- 770 ~~*Dactylis glomerata L.*~~
- 770-1B ~~*Dactylis glomerata L.*~~
- 5 771 ~~Agrostis borealis Hartm.~~
- 4 772 ~~Deschampsia atropurpurea (Wahl.) Scheele~~
- 773 -- ~~Deschampsia atropurpurea (Wahl.) Scheele~~
- 5 780 ~~Agrostis (to be named; awless, no palea) *not seen?*~~
- 4 781 ~~Trisetum spicatum (L.) Richt.~~
- 782 -- ~~Trisetum spicatum (L.) Richt.~~
- 3 783 ~~Agrostis exarata Trin.~~
- 4 784 ~~Phleum alpinum L.~~
- 4 796 ~~Festuca rubra L.~~
- 797 -- ~~Poa arctica R. Br.~~
- 4 798 ~~Poa lanata Scribn. & Merr.~~
- 3 799 -- ~~Poa lanata Scribn. & Merr.~~
- 5 800 ~~Puccinellia alaskana Scribn. & Merr.~~
- 3 812 ~~Hierochloë odorata (L.) Beauv.~~
- 4 820 ~~Bromus aleutensis Trin.~~
- ~~820 *Bromus aleutensis Trin.*~~
- 6 821 ~~Festuca rubra L.~~
- 5 835 ~~Festuca rubra L.~~
- 3 839 -- ~~Festuca rubra L.~~
- 4 841 ~~Elymus mollis Trin.~~
- 841 ~~*Elymus mollis Trin.*~~
- 843 ~~Agrostis mertensii Trin. (awned)~~
- 3 844 ~~Festuca rubra L.~~
- 3 848 ~~Poa eminens Presl~~
- 7 849 ~~849-2, 849-3 Hordeum? (spikelets in 3's, one sessile,
2 pedicelled, axis disarticulates, Hordeum in character
but specimens look like Elymus. *H. montanense?*~~
- 4 854 ~~Agrostis (probably infected by nematodes) *not seen?*~~
- 5 855 ~~Deschampsia flexuosa (L.) Trin.~~
- 3 877 ~~Deschampsia atropurpurea (Wahl.) Scheele (Vahlodea in Hultén)~~
- ~~877 *Deschampsia atropurpurea (Wahl.) Scheele*~~
- 3 884-1 ~~Poa hispidula Vasey~~
- 4 885-1 ~~Festuca rubra L.~~
- 5 886 ~~Festuca rubra L.~~

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Labels written

- 3 887 Glyceria kantschatica Kom.
- 5 888 Calamagrostis nutkaensis (Presl) Steud.
- ~~888 Calamagrostis nutkaensis (Presl) Steud.~~
- 893 Phleum pratense L.
- 895 -- Deschampsia caespitosa (L.) Beauv. *D. beringensis* Nees
- 4 896 Poa palustris L.
- 897 -- Poa palustris L.
- 3 898 Poa palustris L.
- 3 899 Poa annua L.
- 5 900 Poa annua L.
- 5 901 Poa arctica R. Br.
- 6 902 Deschampsia caespitosa (L.) Beauv. *D. beringensis* Nees
- ~~902 Deschampsia caespitosa (L.) Beauv.~~
- 4 903 Poa pratensis L.
- 5 904 Deschampsia caespitosa (L.) Beauv. *ssp. orientalis* Nees
- ~~904 Deschampsia caespitosa (L.) Beauv.~~
- 4 905 Agrostis borealis Hartm.
- 5 906 Agrostis melaleuca (Trin.) Hitchc. (abnormal--Hulten says infected by nematode)
- 5 907 Festuca rubra L.
- 908 Festuca rubra L.
- 4 908 Calamagrostis nutkaensis (Presl) Steud. in part
- 5 909 Festuca rubra L.
- 6 910 Festuca rubra L.
- 911 Agrostis exarata Trin.
- 4 915 Agrostis mertensii Trin. (agrees with Trinius type)
- 4 917 Poa arctica R. Br.
- 5 918 Festuca rubra L. (intermediate between species and var. lanuginosa Mert. & Koch.)
- 3 920 Festuca rubra L.
- 5 921 Festuca rubra L.
- 6 922 Agrostis mertensii Trin. ? (awnless form)
- 923 -- Deschampsia flexuosa (L.) Trin.
- 924-1 Agrostis mertensii Trin.
- 5 938 Trisetum spicatum (L.) Richt.
- 4 941 Deschampsia atropurpurea (Wahl.) Scheele
- 5 942 Poa hispidula Vasey
- 5 943 Calamagrostis nutkaensis (Presl) Steud.
- ~~943 Calamagrostis nutkaensis (Presl) Steud.~~
- 8 944 Poa trivialis L.
- ~~944 Poa trivialis L.~~
- 5 945 Agrostis melaleuca (Trin.) Hitchc.
- 4 946 Festuca rubra L. Var. kitabeliana (Schult.) Piper
- 4 947 Poa hispidula Vasey
- 959 Deschampsia caespitosa (L.) Beauv. *ssp. orientalis* Nees
- 7 960 Deschampsia caespitosa (L.) Beauv. " " "
- 4 961 Glyceria kantschatica Kom.
- 3 963 Agrostis borealis Hartm. *awns, no palea*
- 4 964 Agrostis (to be named) *not named?*
- 4 965 Agrostis " *not named?*
- 34 6 966 Poa pratensis L. (has lemma with nerves and web like P. pratensis, also rhizome and lower branches of panicle in 5's but does not look like pratensis.)
- 4 974 Trisetum spicatum (L.) Richt.

