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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.

Plants from Atka I. leg. van Schaack.

These 'determin' enclosed
in field book

- ✓ 929. *Gentiana auriculata*
 ✓ 1000 100. " *acuta* v. *plebeja*
 ✓ 846. *Minuartia biflora*
 ✓ 528. " "
 ✓ 422. " "
 ✓ 973. *Pyrola minor*
 ✓ 776. *Sagina litoralis* *Nutt.*
 ✓ 499b, 931. *Sagina intermedia* *Fenzl.*
 ✓ 622, 402. *Eriophorum intermedium* *Andr.*
 ✓ 857, 668. *Cardamine Regeliana*
 ✓ 892. *Trifolium repens*
 ✓ 804. *Lathyrus palustris* *filosus*
 ✓ 956. *Callitriche verna*
 ✓ 605. *Stellaria sitchana* *Bongardiana.*
 ✓ 652. *Microstylis monophyllos*
 ✓ 749. *Koenigia islandica*
 ✓ 676. *Rumex acetosella*
 ✓ 598. *Stellaria crispa* *nut.*
 ✓ 745 754. " *ensifolia* *aleutica*
 ✓ 586. *Cerastium aleuticum*
 ✓ 957. *Nuphar polysepala*
 ✓ 397. *Anemone Richardsonii*
 ✓ 837. *Cochlearia officinalis*
 ✓ 752. *Draba aleutica*
 ✓ 824. *Galium kamschaticum*
 ✓ 753. *Erigeron unalaskensis*
 ✓ 710. *Viola epipsila* *repens* (*Tuney*) *Baker.*
 ✓ 751. *Saxifraga aleutica*
 ✓ 464. " *bracteata*
 ✓ 583. " *unalaskensis*
 ✓ 806. *Potentilla palustris*
 ✓ 537. *Geum Rossii*
 ✓ 859. *Listera convallarioides*
 ✓ 792. *Epilobium sertulatum* *Hauke.*
 ✓ 935. *Gentiana aleutica*
 ✓ 996. *Prunella vulgaris* *aleutica*
 ✓ 928, 995. *Euphrasia mollis*
 ✓ 869. *Eriophorum russeolum* *Jr.*
 ✓ 393. *Taraxacum* *sp.*

Send Van Schaack
via E. H. Walker
from E. H. Walker

11/27/46. Please authenticate as above for
Kunze name to Walker (not to Baker)

518
 The *Taraxacum* 393, 744 and 518 represent types
 not yet described. It is impossible to describe
 new species on a single sheet. They should be
 collected more and then be sent to me
 for determination by Dr. Flugwald, the
 specialist on *Taraxacum*. These seem not
 to agree with any of the types described

Stockholm Feb. 26th.
1947

Mr G. B. Van Schaack
Union College
Schenectady, N.Y.

Dear Mr Van Schaack:

You are perfectly right in that
your number 710 was incorrectly
determined to *Viola epipsila repens*.
It is instead a small *Viola Laysdorffii*.
I apparently have been in too much
hurry when looking through the collection.
I am very glad for the Attu material.
I myself could stay only for two days
on the Island and only in the
neighbourhood of the little village
and the mountains close by. I suppose
Attu looks quite different now than
it did when I visited it. It was then
one of the most lovely places in the
world, practically lacking communications.

Sincerely yours

Eric Hulster

Sedges and Rushes from Attu Island collected by Van Schaack

Determined by F. J. Hermann, 1948

- ✓ 381 *Luzula multiflora* var. *kobayashii* (Satake) G. Sam.
- ✓ 394 *Luzula labradorica* Raf. (*L. parviflora* (Enrh.) Desv.)
- ✓ 490 *Luzula multiflora* (var. *kobayashii* (Satake) G. Sam. ?)
- ✓ 491 *Luzula labradorica* Raf.
- ✓ 492 *Carex lyngbyei* Hornem.
- ✓ 493 *Carex stygia* Fr.
- ✓ 497 *Carex anthoxanthea* Presl
- ✓ 507 *Juncus mertensianus* Bong.
- ✓ 527 *Luzula arcuata* Wahl.
- ✓ 535 *Luzula arcuata* Wahl.
- ✓ 549 *Luzula multiflora* (Retz.) Lej. var. (immature) *no record of seeds 4/29/48*
- ✓ 566 *Scirpus caespitosus* L.
- ✓ 568 *Scirpus caespitosus* L.
- ✓ 569 *Carex anthoxanthea* Presl
- ✓ 570 *Carex stylosa* C. A. Mey. (?) (immature)
- ✓ 599 *Juncus mertensianus* Bong.
- ✓ 621 *Carex physocarpa* Presl
- ✓ 631 *Juncus* sp. (very immature)
- ✓ 671 *Carex circinata* C. A. Mey.
- ✓ 701 *Juncus mertensianus* Bong.
- ✓ 719 *Carex stylosa* C. A. Mey.
- ✓ 721 *Carex stygia* Fr.
- 739 *Luzula arcuata* Wahl. *check this material (4/29/48)*
- ✓ 757 *Juncus haenkei* A. Mey.
- ✓ 845 *Luzula wahlenbergii* Rupr.
- ✓ 853 *Luzula multiflora* var. *frigida* (Buch.) G. Sam.
- ✓ 861 *Luzula multiflora* var. *frigida* (Buch.) G. Sam.
- ✓ 863 *Carex lyngbyei* Hornem.
- ✓ 867 *Carex stylosa* C. A. Mey.
- ✓ 878 *Carex macrochaeta* C. A. Mey.
- ✓ 891 *Juncus mertensianus* Bong. (?) (immature)
- ✓ 925 *Carex circinata* C. A. Mey.
- ✓ 958 *Carex anthoxanthea* Presl
- ✓ 992 *Carex hindsii* C. B. Clarke *E. Meyer*
- ✓ 994 *Juncus falcatus* var. *sitchensis* Buch.
- ✓ 1023 *Carex bigelovii* Torr. (heavily smutted)
- ✓ 1024 *Carex bigelovii* Torr. (C. concolor of Amer. authors)
- ✓ 1025 *Juncus mertensianus* Bong.
- ✓ 1044 *Luzula arcuata* Wahl.

✓ 384 *Carex stygia* Fr. det. H.S. *no record of seeds 4/29/48*

Entered in file book

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C. 25

May 22, 1946

Dr. George B. Van Schaack
West Coxsackie, New York

Dear George:

D.S.

Your orchids were checked over yesterday by Dr. Correll of the Botanical Museum of Harvard and found to be in good order. His determinations are:

- 15a. *Habenaria hyperborea* (L.) R. Br.
15c. " " "
962 (Was in orchid folder but said not to be an orchid; possibly *Veratrum*)
859. *Listera convallarioides* (Swartz) Torr.
550. " *condit-a* (L.) R. Br.
510. " " "
615. *Habenaria dilatata* var. *albiflora* (Cham.) Correll
646 969. " " (Pursh) Hook.
807. " *behringiana* (Rydb.) Ames
1028. " *charisiana* Cham.
756. *Habenaria viridis* var. *bracteola* (Muhl.) A. Gray
822. *Cypripedium guttatum* Swartz (L.) Sw.
652. *Malaxis monophyllus* *Just up south*

Dr. Ball returned the willows, named as follows:

367. *Salix arctica* Pallas
380. " " "
383. " " "
395. " " "
398. " " "
399. " " "
429. " " var. *obcordata* (And.) Rydb.
443. " " "
451. " " "
525. " " var. *obcordata*
552. *Salix reticulata* var. *subrotunda* Seringe
556. " " " "
579. " " " L.
734. " " var. *subrotunda* Seringe
1020. " *arctica* Pallas
1021. " " " "

Wagner has submitted an outline of his article on plant collecting and it has the hearty approval of the editor. I hope yours is still brewing and not straining you too much.

University of Minnesota asked the Navy Department for "Flowers of Island X" and I sent a copy. That leaves me two copies.

Sincerely yours

E. H. Walker

E. H. Walker
Assistant Curator
Division of Plants

van Schaack - 2

Dupl

Here are the determinations which Dodge put on the lichens which he returned. Sorry I overlooked sending these to you before.

These were sent me last winter!

- 173. *Dactylina madreporiformis* (Ach.) Tuck.
- 181. " " " "
- 182. *Stereocaulon fastigiatum* Anzi f. *congestum* H. Magn.
- 184. *Dactylina madreporiformis* (Ach.) Tuck.
- 198. *Caloplaca elegans* (Link) Th. Fr.
- 202. *Parmelia saxatilis* (L.) Ach.
- 205. " " " "
- 204. " " " "
- 216. *Ramalina cambesides* Nyl.?
- 219. *Lobaria oregana* Muell. Arg.
- 221. *Sphaerophorus coralloides* Pers.
- 222. ~~Scapania~~ *Paunaria pezigoidea* (Web.) Trev.
- 229. *Ramalina subfarinacea* Nyl.
- 231. *Peltigera apthosa* (L.) Willd.
- 232. *Pertusaria coriacea* Th. Fr. v. *ochrolechioides* Vainio.
- 241. *Cetraria islandica* (L.) Ach.
- 242. *Stereocaulon alpinum* Laur.
- 248. *Alectoria divergens* Nyl.
- 253. *Stereocaulon denudatum* Floerke
- 265. ~~Siphonia~~ *Dactylina madreporiformis* (Ach.) Tuck.
- 266. " " " "
- 269. *Lobaria oregana* Muell. Arg.
- 289. *Alectoria chalybeiformis* (L.) S. F. Gray
- ~~Cetraria~~
- 290. *Cetraria lacunosa* Ach.
- 293. *Alectoria ochroleuca* (Ehrh.) Nyl.
- 296. *Parmelia saxatilis* (L.) Ach.

226 not determined

Sincerely yours

E. H. Walker

E. H. Walker
Associate Curator
Division of Plants

Oct 23, 1946

MISSOURI BOTANICAL GARDEN
ST. LOUIS

OFFICE OF THE DIRECTOR
3815 TOWER GROVE AVENUE
ST. LOUIS (10), MISSOURI

HERBARIUM, GRAY SUMMIT, MO.
TROPICAL STATION, BALBOA, C. I.
EUROPEAN REPRESENTATIVE,
HOVE, SUSSEX, ENGLAND

March 22, 1946

Dr. E. H. Walker
Division of Plants
Smithsonian Institution
U. S. National Museum
Washington, D.C. (25)

Dear Dr. Walker:

In reply to your letter of March 15, I am sending all of the material of Van Schaach's numbers 175, 195, 209, and 256 to Dr. John W. Thomson, Jr. to see if he can straighten them out.

Dr. Thomson has been working for sometime on a monograph on the Peltigera of North America. These are rather difficult as no two authors agree as to which entities should be regarded as species and which varieties. They are all fairly referable to Peltigera canina of older authors of which P. membranacea is usually used for the thinner forms. No. 209 may be Gyelnik's segregate v. Groenlandica of which I have seen no material. I am waiting to see what Thomson will do with them.

Sincerely yours,

Carroll W Dodge

CWD/jw

Carroll W. Dodge
Mycologist

March 15, 1946

Dr. C. W. Dodge
Missouri Botanical Garden
St. Louis 10, Missouri

Dear Dr. Dodge:

While writing labels for his Attu Island lichens, Van Schaack has met up with what appears to be a puzzle regarding his numbers 175, 195, 209, and 256. These all appear in your list of determinations as Peltigera membranacea (Ach.) Nyl. although one of them (no. 209) departs widely from the character of the others. Apparently through an inadvertency of ours, you were supplied with incorrect duplicates. I would appreciate your checking the four packets enclosed.

I am enclosing the labels for the duplicates of Van Schaack's lichens which you now have.

Sincerely yours

E. H. Walker
Assistant Curator
Division of Plants

Enclosures

For reply see Walker, July 31, 1946
& add. letter from Dodge

March 15, 1946.

Dr. Maxon:

Herewith are three lots of cryptogams from Attu, collected by Dr. George B. Van Schaack, ready to be sent to specialists. The accompanying memoranda should be sufficient explanation for your needs in transmitting them. I have written a letter to Dr. Evans to relate this to previous correspondence, of which you were not aware. I shall write letters for the others if you wish me to.

Respectfully,

E. H. Walker
Asst. Curator

171630

March 15, 1946.

Dr. A. W. Evans
100 Livingston St.
New Haven, Conn.

Dear Dr. Evans:

A few months ago Mr. Leonard inquired of you on my behalf concerning the naming of some Cladonia specimens from Attu Island in the Aleutian Chain. The question was primarily concerning your willingness to examine all the material of each collection and to return them after you had taken out a set for yourself from those which were divisible. He reported to me that you were willing to do this.

Dr. Van Schaack, the collector of these lichens, is now studying here and has prepared 20 specimens for shipment to you, along with two labels for each collection and the attached memorandum. We would greatly appreciate your determinations with the return of the extra material.

Another Attu collection made by Mrs. Howard of the Red Cross is awaiting the printing of labels. As their completion is uncertain, it seems advisable to send Van Schaack's in advance.

Yours sincerely,

E. R. Walker
Ass't. Curator

Division of Plants
March 14, 1940

Dr. Mazon:

Dr. Van Schaack has prepared these masses for shipment to Dr. William Steere, Department of Botany, University of Michigan, Ann Arbor, for identification. The attached memorandum should explain the matter adequately. Dr. Steere is to take out and retain a duplicate of each collection that is divisible (provided he wants it) and return the rest. He can retain one of each of the two labels for each number. Presumably, when he returns them he will state the number retained.

Respectfully

Enclosures

E. H. Walker
Assistant Curator

Mosses	Sheene	1st. lat	264
Clad	Evans		18
Liver.	Swiford		10
Lichens			34
			<hr/>
			88

Raid Jan 23, 1907

Det. F. W. Pennell

Entered -
field notes

Lt. G. B. Van Schaack

Veronica americana (Raf.) Schwein. - 779

" *grandiflora* Gaertn. - 509

" *serpyllifolia humifusa* (Dickson) Vahl - 482, 697

Lagotis glauca Gaertn. - 80c

Castilleja unalaschcensis (C. & S.) Malte - 862

Euphrasia mollis (Ledeb.) Wettst. - 928, 936, 995

Ranunculi collected by Van Schaack on the
Aleutian Islands

Det. Lyman Benson

- R. acris L. var. frigidus Regel No. 466
- R. occidentalis Nutt. var. Nelsonii (DC.) L. Benson
Nos. 408, 467, 465, 604, 468, 597, 559
- R. Eschscholtzii Schlect. No. 330
- R. repens L. var. glabratus DC. No. 595
- R. Flammula L. var. filiformis (Michx.) Hook, No. 832
- R. aquatilis L. var. capillaceus (Thuill.) DC. No. 951
- ?R. acris x R. uncinatus D. Don var. parviflorus (Torr.) L. Benson
(R. Bongardii) No. 894

(See a Treatise on N. Am. Ranunculi, L. Benson.
Ann. Mus. Nat. Hist. 40: 1-261, 1948)

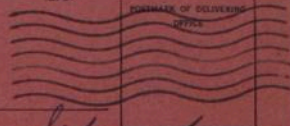
261
315
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Sauls
Agnes

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University City 5



Return to *George B. Jew Schagel*
(NAME OF RECIPIENT)
2315 Tamm Drive
Street and Number, or Post Office Box.

REGISTERED ARTICLE
No. 127658
INSURED PARCEL
No. _____

ST. LOUIS, 10
MISSOURI.

RETURN RECEIPT

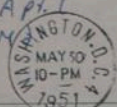
Received from the Postmaster the Registered or Insured Article, the original number of which appears on the face of this Card.

1 John L. ...
(Signature or name of addressee)

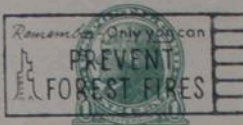
2 John L. ...
(Signature of addressee's agent—Agent should enter addressee's name on line ONE above)

Date of delivery 5-29, 1951 (22)

L. H. Jordal
906 Eastridge Ave. Apt. 1
Takoma Park, Md.



THIS SIDE OF CARD IS FOR ADDRESS



Dr. G. Van Schaack
Missouri Bot. Gardens
St. Louis, Mo.

Dear Dr. Van Schaack:

Your letter and the cards received.
Please keep the list I made for you.
Shall work with what I have now.

My address may change during
the summer but until further
notice it is: St. Halvardsvej 34
Bergen, Norway

Yours truly
L. H. Jordal

Jamaica (Paul) to
O'Neil.

12✓

219

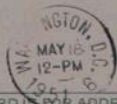
244

348

391

433

57✓



THIS SIDE OF CARD IS FOR ADDRESS

Mr. George B. Van Schaack
Honorary Curator of Grasses
Missouri Botanical Garden
2315 Tower Grove Ave.
St. Louis 10, Mo.

The Catholic University of America

Washington 17, D. C. May 18, 1951.

Dear Sir :

Your package of rushes from the Aleutians arrived safely. As I am on leave of absence I could not get at them until recently. My friend, Dr. Frederick Hermann however has kindly agreed to determine them at once. This is his specialty. I will report his findings in a few days' time.

Hugh O'Neill
Very truly yours,
Hugh O'Neill

CURATOR OF THE LANGLOIS HERBARIUM

Plants collected by Morehouse not found by V.S.

~~Plantago maritima L. 2006~~

~~Equisetum arvense L. 2014~~

~~Viola ^{sp.} *spitella* Ledeb. ? 2017~~

Carex macrochaeta C.A. May 2023

~~Fucus falcatus C.A. May det aff. 2030~~

Pedicularis verticillata L. 2046

Van Schaack 928, 936, 995. *Euphrasia mollis* (Ledeb.) Wettst.
810. *Rhinanthus borealis* (Sterneck) Chabert

Copied by E.M.C. from another list from Pennell.

Report from Pennell

Entered in field book

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM

WASHINGTON, D. C.

OFFICIAL BUSINESS SEP 13 10-PM 1946

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE \$300

(GPO)

Dr. Geo. B. Van Schaack

West Coxsackie

New York

Smithsonian Inst.
Wash. 25, D. C.
Sept. 13, 1946.

Dear Dr. Van Schaack:

Dr. Pennell has reported your
no. 504 as *Pedicularis chamissonis* Steven.

My article was finished yesterday with extensive
quoted extracts from the article you sent me. That
will be returned to you when my article is typed.

Sincerely yours,

E. H. Walker

E. H. Walker
Associate Curator

*referred
to file book*

July 7, 1947

Dr. David D. Keck,
Division of Plant Biology,
Carnegie Institution of Washington,
Stanford University, California

Dear Dr. Keck:

Thank you for identifying Van Schneck's *Artemisia*s from Attu. The two specimens which were lent you have come back all right, and I am passing them on, with the identifications of the duplicates, to Dr. Walker.

Best regards to you and my other friends at your Station. I hope you will be in Washington some time before long.

Sincerely,

E. F. Killip, Curator,
Division of Plants

E.P.K.

JUN 25 1947

CARNEGIE INSTITUTION OF WASHINGTON

DIVISION OF PLANT BIOLOGY

June 20, 1947

P. O. ADDRESS:
CARNEGIE INSTITUTION OF WASHINGTON
STANFORD UNIVERSITY
CALIFORNIA

Mr. E. P. Killip, Curator
Division of Plants
Smithsonian Institution
United States National Museum
Washington 25, D. C.

Dear Mr. Killip:

*S 1234
Mar 1935*

I was in the Sierra Nevada when the shipment of 6 specimens of Artemisia collected by Dr. Van Schaack on Attu Island arrived. Now I have gone over them and am returning by parcel post the two mounted sheets, both of which are Artemisia Tilesii Ledeb. subsp. unalaschcensis (Bess.) Hultén. I am retaining the 4 unmounted sheets sent at Dr. Van Schaack's request as a gift and for which I am grateful to him and to you. These are as follows:

- No. 913 and 914. A. Tilesii Ledeb. subsp. unalaschcensis (Bess.) Hultén
No. 872. A. arctica Less.
No. 873. A. arctica Less. var. villosa Hultén

Kindest regards, and say "hello" to Conrad for me.

Very sincerely,

David D. Keck

David D. Keck

*Transmitted
E. H. Walker
Copied in field book*

Copy

Carnegie Institution of Washington
Division of Plant Biology
June 20, 1947

Stanford University
California

Mr. E. P. Killip, Curator
S. I., U. S. N. H.
Washington 25, D. C.

Dear Mr. Killip:

1034
1035
I was in the Sierra Nevada when the shipment of 6 specimens of Artemisia collected by Dr. Van Schaack on Attu Island arrived. Now I have gone over them and am returning by parcel post the two mounted sheets, both of which are Artemisia Tilesii Ledeb. subsp. unalaschcensis (Bess.) Hulten. I am retaining the 4 unmounted sheets sent at Dr. Van Schaack's request as a gift and for which I am grateful to him and to you. These are as follows:

- No. 913 and 914. A. Tilesii Ledeb. subsp. unalaschcensis (Bess.) Hulten
No. 872. A. arctica Less.
No. 873. A. arctica Less. var. villosa Hulten

...

/s/ David D. Keck

copied in ^{file} ~~book~~ book

Hardy

257 *Cardamine regeliana* Miguel f. with Huet.

348 *Stellaria stichana* Steud. " "

79 *Ranunculus scaberrimus* Schlecht.

On basis of sepals only sparsely provided
with light colored hairs.

241 *Stellaria stichana* Steud. var. *Bongardiana*
(Fern.) Huet. Cf. with Hueten. + no S. Composites
in the albumens. Fl. Al. v. 4. p. 65

404 *Polypodium braunii* (Spencer) Fée var.
stichense (Maxon) Huet. (Huet. Fl. Al. v. 4. p. 31)

The rachis does not have proflerous buds, and
although it is true the first upturned pinna
is conspicuously larger, the pinnae are
free from recurrent, being attached to the
rachis by a 2-3 mm. broad oblique base.

316 *Polypodium kamtschaticum* (Chr. & Huet.)
Fourn.

This is distinctly different from #404 in
the greater dissection, the pinnae con-
spicuously obliquely dissected and attached
to the rachis for a considerable distance.
The pinnae are very acuminate. Ref. Huet.
Fl. Kamtschatka v. 1. p. 38 and Pl. 2, Fourn., Fl.
Sib. et Or. lat. V, p. 94.

Hardy

90 *Plantago macrocarpa* C.S.

This specimen does not differ from those on sheet # 187 det. as *P. macrocarpa*, and does not match any *P. furcata* in the US Bot. while it does match several sheets of *P. macrocarpa* det. by Kuhn.

200 *Ranunculus occidentalis* Nutt. var.

velsonii (D.C.) L. Reesman.

This matches ~~fairly~~^{very well} sheets of mine determined by L. Reesman. The achenes are 3 mm long (without h₂) which is much too large for *P. Bongardii*, and they are more or less markedly pubescent, typical of *R. o. velsonii*. Cf. Reesman Bull Torrey Cl. 68 (1941), 166, 477.

324 *Ranunculus repens* L.

Clearly misnamed *R. repens* because of similarity of names. Plants are very different. This may be var. *glaberrimus* DC. It corresponds well with a sheet of mine^{pos} determined by Reesman, but the basal parts of the plant being lacking the var. is not clear.

Hardy ~~114~~

124 I don't know what this is, but I doubt
it is *R. nelsonii* Greene (= *R. occidentalis* Nutt.
var. *nelsonii* (DC.) Rees). The vening of the
basal leaves does not match that of any
I possess sheet of mine etc. by Rees as
R. o. var. *vel.* - being very sharp, the primary
lobes ~~concrete~~ and ^{incurved} ~~the secondary veins~~
It strongly suggests *R. turneri* Greene, ~~but~~
~~since~~ the styles not referred, ~~and~~
the petals very ^{large} ~~long~~ and broad, - but I
cannot see the styles to check whether
they are circinate.

Sugg. giving to US Nat & have them sent to Rees

114 This may be *R. o.* subsp. *circinata* (Hust.) Nutt.
Am sending over 441 ~~328~~ 19 to Rees,
concerning these + 328 (am) as all equal.
Also sending 1 sp. of 114 Hardy.

344 This is not *Calamagrostis neglecta*. The
awn is geniculate and attached well below the
middle of lemma - and becomes apiculate almost
exactly like with desc. of *C. subserotina* in Hitchc.
and with awn 1015 det as " " by G. Chase

Hardy

358. Nat *Calamagrostis neglecta*.

From greenhouse, attached part below
middle or lower. Skeletals for Comp

Parade for open. In Hb. keys to
C. nutkaensis. Same was key to *C.*
neglecta in Huxley.

Parade seems quite ~~other~~ close to
nutkaensis - perhaps infl. by
C. canadensis

Action on V.S. Bot. Crypt.

1. Process by US Nat 3 boxes

- a) *Cladonia* det Evans
- b) *Lichens* det Dodge
- c) *Hepaticas* det Fulford

Make up sets as indicated in these boxes & file for future disposition

2. ✓ ^{V.S.} Walker write Evans asking if he wishes to publish *Cladonia*. There are 16 sp. - *Dezfulius* having reported only 7 from Hulteni collection.
3. ✓ Van S. to write Thellier asking if he will publish *Mosses* & *Hepaticas*.
4. ✓ U.S. to write *Dezfulius* asking if he will publish *Lichens* (not *Clad.*) (plus *Clad.* of Evans not interrelated) (plus *Harvey*)
5. ✓ Doelter to loan sets of *Harvard Crypt.* made up similarly for similar purpose.
6. Request under label (Van Schaik)

<i>Gyrophora cylindrica</i>	366
<i>Solorina crocea</i>	420, 450, 453
<i>Gyrophora hyperborea</i>	446
<i>Alectoria pubescens</i>	449
<i>Stereocaulon niphitii</i>	455
<i>Cetraria nivalis</i>	457
<i>Scutula tuberculosa</i>	472
<i>Parmelia Hookeri</i>	508
<i>Peltigera canina rufescens</i> ?	516
<i>Bryophora selice</i>	698
" <i>hyperborea</i>	706
<i>Peltigera melanospora</i>	866
<i>Paribucaria trachydactyla</i>	1041

<i>Nephroma arcticum</i>	174, 415
<i>Pertusaria paucyriza</i>	183
<i>Ramalina subformicosa</i>	188, 189, 229
<i>Lecanora contractula</i>	200
" <i>melanophthalma</i>	201
<i>Physcia</i> sp.	208
<i>Leptogium minutissimum</i>	210
<i>Pertusaria</i> sp.	217, 218, 263, 298, 298a
<i>Parmelia saxatilis</i>	220, 225, 225a, 250, 291, 202, 203, 204, 296
<i>Bilimbia Kiliacii</i>	224
<i>Pertusaria hyemalis</i>	226 a, 323
<i>Peltigera polydactyla</i>	230
<i>Colophoma elegans</i>	233, 198, 338
<i>Peltigera venosa</i>	235
<i>Acarospora</i> sp.	247
<i>Gyrophora arctica</i>	249
<i>Stereocaulon dendrodatum</i>	260, 253
<i>Cetraria fahlunensis</i>	287
" <i>islandica</i>	288, 241, 318, 434, 436, 547
<i>Alcatoria chalybeiformis</i>	292, 289
<i>Psoroma hypnorum</i>	295
<i>Dactylina madrapouformis</i>	173, 181, 184, 265, 266, 326
<i>Peltigera membranacea</i>	175, 195, 209, 256
<i>Stereocaulon fahlunense</i>	182

<i>Ramalina combeoides</i>	216
<i>Lotaria oregana</i>	219, 269
<i>Spherothorus coralloides</i>	221 , 197
<i>Pannaria pezizoides</i>	222, 199
<i>Peltigera aphtosa</i>	221, 313, 322, 456
<i>Pertusaria caricaceae ochroleucoides</i>	232
<i>Stereocaulon alpinum</i>	242
<i>Alectoria divergens</i>	248, 319
<i>Cetraria lacunosa</i>	290
<i>Alectoria ochroleuca</i>	293, 449
<i>Peltigera canina</i>	176, 325
<i>Parmelia ciliolata</i>	185
" <i>omphalodes</i> ?	186, 205 <i>Schlaender thiersi</i> new.
<i>Parmelia saxatilis fufuracea</i>	187
<i>Thamnosia seminularis</i>	314, 320, 454, 458
<i>Parmelia alpicola fertile</i> !	315
<i>Lecidea lauraticana</i>	316
<i>Rhizocarpon geographicum</i>	316
<i>Sarcogyne</i> sp. new?	317
<i>Pertusaria oculata</i>	321
<i>Stereocaulon fastigiatum discoloratum</i>	327
<i>Xanthoria canaliculata</i>	339
<i>Lopadium fuscobutyrum</i>	343
<i>Peltigera praedictata</i>	345
<i>Lopadium fecundum</i> ?	346

note on

Alta Crypts. Van Schaack For loan + exchange
ex ind. on packages.

Mosses 147, 155, 157 for loan to Shreve

" 685 " exch. " "

" 153, 156, 169, 271 " " Andrews

Hepatics 148, 158, 170, 259, 268, 272, 277, 485

for loan to Shreve

Lichens nat. Clad. 173, ..., 296 for loan to Degler.

" " " 174, ..., 296a " " " "

Clad. 172, ..., 300 for loan to Evans.

Note on Evans box of Cladonia

Van Schoeck - Cladonia - Det Evans.

1. To be processed by USMT
2. First set for USMT
3. USMT set to be loaned ^{entire} to Evans for publ. since he although he has certain dupls. he found some of material too scanty to divide
4. Dupl set for Van Schoeck
5. Remaining dupls. for Van Schoeck?

Note on herbarium of lichens (near Cladonia) Det Dodge

Lichens (near Cladonia) Det Dodge

1. To be processed by USNH
2. First set for USNH.
3. Dupl set for Seigelius. This to be sent him for publ. plus any unicates to be loaned to make complete set
4. Dupl. set for Van Schaet
5. Remaining dupl for USNH.

Note on Telford package

Van Schaak replicates det. Telford.

1. To be processed by USNH
2. First set for USNH
3. Dupl. set for Thiers. If incomplete loan remaining unicates so that Thiers has complete set for publication.
4. Dupl. set for Van Schaak
5. Remaining dupl. for USNH.

Jan 1, 1947.
Mosses.

From 1st lat sent to Steere in summer '45 he has
dupl. sheets ♀:

145	257
150	258
152	261
154	270
160	274
162	275
163	276
164	281
166	282
167	283
186	284
207	294
215a	299
219a	
255	
255a	

He returned: *unicates* 147, 155, 157

Bryum sterile 153, 156, 169, 271 suggesting
Andrews to name them.

Bryhnia (new sp.?) 168, suggesting it be
sent to Sargent. This was same + reported
as *Bryhnia huetensis* Bort.?

2nd lat sent in spring '46 he has made us report.

This contains numbers:

305	329	347	378	474	624
306	331	357	379	475	641
308	333	358	382	476	691
309	334	359	403	487	801
324	335	370	437	548	890
	344	371	438	619	953
					1014

Over

There remains # 685 *Tournefortia* to be sent
him (as dupl.).

- Action:
1. Send Bryson steile 153, 156, 169, 271
to Andrews for det.
 - ~~2. Send Bryson n. p. 71~~
 2. Loan Steere unicals ~~147~~ 147, 155, 157
and 168 for publication.
Send Steere dupl. # 685
Request report on second det.
 3. On report from Andrews send report
and/or sheets 153, 156, 169, 271 to
Steere for publication.
 4. Write labels for all names between 145 and 297

Aleutian Islands (Attu?) mosses collected by G. B. Van Schaack, 1944-1945
(U. S. N. M. 170408 in part)

Identified by Dr. W. C. Steere; reported by U. S. National Museum, Sept. 1945

- 147
- 145. *Sphagnum squarrosum* Crome
 - 150. *Pohlia Wahlenbergii* (Web. & Mohr) Andrews
 - 152. *Bryum argenteum* Hedw.
 - 153. " sp. (sterile)
 - 154. *Grimmia conferta* Funck
 - 156. *Bryum* sp. (sterile)
 - 117
 - 160. *Rhacomitrium lanuginosum* (Hedw.) Brid.
 - 162. " *rubellum* Wils.
 - 163. " *magellanicum* Brid.
 - 164. *Ceratodon purpureus* (Hedw.) Brid.
 - 166. *Bryum argenteum* Hedw.
 - 167. *Anisothecium squarrosum* (Stark) Lindb.
 - 168. *Bryhnia* sp. (probably new species) *
 - 169. *Bryum* sp. (sterile)
 - 206. *Mnium flagellare* Sull. & Lesq.
 - 207. *Brachythecium Bestii* Grout
 - 215a. Packet II *Antitrichia curtipendula* (Hedw.) Brid.
 - 219a. Packet II " " " "
 - 255. *Rhytidiadelphus triquetrus* (Hedw.) Warnst.
 - 255a. *Drepanocladus uncinatus* (Hedw.) Warnst.
 - 257. *Thuidium delicatulum* (Hedw.) Mitt.
 - 258. *Mnium punctatum* var. *elatum* Schimp.
 - 261. *Rhacomitrium heterostichum* (Hedw.) Brid.
 - 270. *Sphagnum rubellum* Wils.
 - 271. *Bryum* sp. (sterile)
 - 274. *Rhacomitrium lanuginosum* (Hedw.) Brid.
 - 274c. *Dicranum Bonjeani* Delnot.
 - 276. *Hylacomium splendens* (Hedw.) ~~Warnst.~~ BSG
 - 281. *Rhytidiadelphus loreus* (Hedw.) Warnst.
 - 282. *Plagiothecium undulatum* (Hedw.) BSG
 - 283. *Fissidens cristatus* Wils.
 - 284. *Ceratodon purpureus* (Hedw.) Brid.
 - 294. *Dicranum scoparium* Hedw.
 - 297. *Rhacomitrium heterostichum* (Hedw.) Brid.

 - 147. *Mnium punctatum* var. *elatum* Schimp.
 - 155. *Anisothecium squarrosum* (Stark) Lindb.
 - 157. *Mnium insigne* Mitt.

* Bartram reports 'Probably a form of *B. Hultenii* Bartr.'
cf. spec. in U.S.N.M. (V.S. 168)

This is first for Steere

Bartram reports # 168 as *Bryhnia Hultenii* Bartr.? form!

numbers 76 species

<i>Sphagnum squarrosum</i> Cronen	145
<i>rubellum</i> Mts.	162, 270
<i>magellanicum</i> Brid.	163
<i>Pohlia Wahlenbergii</i> (Web. + Mohr) Andrews	150
<i>Bryum argenteum</i> Hedw.	152, 166
spp.	153, 156, 169, 271
<i>Grimmia conferta</i> Junck	154
<i>Racomitrium lanuginosum</i> (Hedw.) Brid.	160
<i>heterochitum</i> (Hedw.) Brid.	261, 297
<i>Ceratodon purpureus</i> (Hedw.) Brid.	164, 284
<i>Anisothecium squarrosum</i> (Stark) Lindb.	167, 155
<i>Brylissia</i> sp. (new?)	168
<i>Mnium flagellare</i> Sull. + Lesq.	206
<i>punctatum</i> var. <i>elatum</i> Schimp.	258, 147
<i>ineigne</i> Mitt.	157
<i>Brochythecium Bestii</i> Grout	207
<i>Antitrichia curticaudula</i> (Hedw.) Brid.	215a II, 219a II
<i>Rhyidiadelphus triquetrus</i> (Hedw.) Warnst.	255
<i>lobus</i> (Hedw.) Warnst.	281
<i>Drepanocladus uncinatus</i> (Hedw.) Warnst.	255a
<i>Thuidium delicatulum</i> (Hedw.) Mitt.	257
<i>Dicranum Bonjeani</i> De Not.	275
<i>scoparium</i> Hedw.	294
<i>Hylocomium splendens</i> (Hedw.) BSG	276
<i>Plagiothecium undulatum</i> (Hedw.) BSG	282

Mosses for Steere

Originals: entire collection of each number sent.

Steere to retain a portion of each for himself except in case of duplicates. On return these specimens are to be processed, whenever possible split, one portion for USNH, one for Van Schaek - any balance to be retained by USNH as duplicates.

305	329	347	378	474	624
306	331	357	379	475	641
308	333	358	382	476	691
309	334	359	403	487	801
324	335	370	437	548	890
	344	371	438	619	953
					1014

36

This is second (final) lot except for # *Southeast's* sent early in '47.

Hepaticae.

Det by Evans

148	259	277
158	268	285
170	272	

above were sent with Cladonia to Evans in
December '45. I assume they have been
put in a box for distribution, for they
are not with any of the material kept out
for my return.

Det by Fulford.

259	332	414	707A
303	337	485	707B
304	361		
	388	577	

These have not been processed here. Should be
processed, a set reserved for USNH, a
set of dupl. set aside for Shreve, a set
of dupl for me & any remaining material
for USNH dupl.

- Action: 1. Find sheets det. by Evans & send
on loan or by dupl. to Shreve for publ.
2. Send dupl. of Fulford set to Shreve
for publication.

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C. 25

May 27, 1946

Dr. Geo. B. Van Schaack
West Coxsackie, N. Y.

Dear George:

Margaret Fulford has determined your liverworts as on the attached list and returned the specimens. These are being laid aside with your other material pending the time to straighten them out with others of yours. She says, "the material was exceptionally nice."

Sincerely yours



E. H. Walker
Assistant Curator
Division of Plants

Enclosure

Hepaticae collected by G. B. Van Schaack on Attu Island, "Luetian Islands
in 1945.

Determined by Margaret Fulford.

259. *Conocephalum conicum* (L.) Dumort
303. *Scapania paludosa* K. Mull.
304. *Pellia* sp.
332. *Conocephalum conicum* (L.) Dumort
337. " " " "
361. " " " "
388. *Marchantia polymorpha* L.
414. *Pellia neesiana* (Gottsche) Limpr.
485. *Marchantia polymorpha* L.
577. *Pellia neesiana* (Gottsche) Limpr.
~~707. *Marsupella emarginata* (Hrb.) Dunal~~
707A. *Marsupella emarginata* (Hrb.) Dunal
Plectocoles *Plectocolea obovata* (Nees) Mitt
Cephalozia bicuspidata (L.) Dum.
707b. *Jungermannia tristis* Nees + *Marsupella* } + *Scapania undulata* (L.)
Dumort

Hepatics for Tullford:

Originals only: entire collection of each number sent. Tullford to retain a portion for herself except in case of unicates.

On return these specimens to be processed, wherever possible split, one portion for USNH, one for Van Sida - any balance to be received as duplicates by USNH.

303	259	361	485
304	332	388	577
	337	414	707

Lichens (real Cladonias) for Dodge:

Originals: entire collection of each number sent. Dodge to retain a portion of each for himself except in the case of unicatals. On return these specimens are to be processed, wherever possible split, one portion for USNH, one for Van Schaumb - any balance to be reserved as duplicates by USNH.

	176	326	415	455	866
	185	327	420	456	1041
	186	338	434	457	
	187	339	436	458	
	197	343	446	472	
	199	345	447	508	
223	205	346	449	516	
313	315	366	450	547	
314	316	376	453	698	
	317	413	454	706	
	318				
	319				
	320				
	321				
	322				
	323				
	325				

24

Lichens (not Cladonia) collected on Attu by VanSchaack
Identified by C.W.Dodge UNICATES

This is part of 1st
cat
All in U.S. Nat. Herbarium

- ✓ 174 Nephroma arcticum (L.) Torss.
- ✓ 183 Pertusaria panyrga (Ach.) Th. Fr.
- 188 Ramalina subfarinacea Nyl.
- 189 Ramalina subfarinacea Nyl.
- 200 Lecanora contractula Nyl
- 201 Lecanora melanophthalma Ram.
- ✓ 208 Physcia sp. sterile
- 210 Leptogium minutissimum (Floerke) Fr.
- 217 Pertusaria sp. young thallus.
- ✓ 218 Pertusaria sp. young thallus.
- 220 Parmelia saxatilis (L.) Ach.
- 224 Bilimbia Killiasii (Hepp.) Oliv.
- 225 Parmelia saxatilis (L.) Ach.
- ✓ 225a Parmelia saxatilis (L.) Ach.
- ✓ 226a Pertusaria byontha (Ach.) Nyl.
- 230 Peltigera polydactyla (Neck.) Hoffm.
- 233 Caloplaca elegans (Link) Th. Fr.
- 235 Peltigera venosa (L.) Hoffm.
- ~~247~~ Acarospora sp. too immature to identify.
- 249 Gyrophora arctica Ach.
- 250 Parmelia saxatilis (L.) Ach.
- 260 Stereocaulon denudatum Floerke
- 263 Pertusaria sp. young thallus
- 287 Cetraria fahlunensis (L.) Schaer
- 288 Cetraria islandica (L.) Ach.
- 291 Parmelia saxatilis (L.) Ach.
- 292 Alectoria chalybeiformis (L.) S.F.Gray
- 295 Psoroma hypnorum (Ahl) ^{S.F.} ~~H.S.~~ Gray
- 298 Pertusaria sp. young thallus.
- ✓ 298a Pertusaria sp. young thallus.

✱
✓ no duplicate material

Probably 247
(which was crustace)

This is part of lot cat

Lichens (not Cladonia) collected on Attu by Van Schaack
Identified from a duplicate set by C.W.Dodge

- ✓ 173 Dactylina madreporiformis (Ach.) Tuck.
- ✓ 175 Peltigera membranacea (Ach.) Nyl.
- ✓ 181 Dactylina madreporiformis (Ach.) Tuck.
- 182 Stereocaulon fastigiatum Anzi f. congestum H. Magn.
- 184 Dactylina madreporiformis (Ach.) Tuck.
- 195 Peltigera membranacea (Ach.) Nyl.
- 198 Caloplaca elegans (Link) Th. Fr.
- ✓ 202 Parmelia saxatilis (L.) Ach.
- ✓ 203 Parmelia saxatilis (L.) Ach.
- ✓ 204 Parmelia saxatilis (L.) Ach.
- 209 Peltigera membranacea (Ach.) Nyl.
- 216 Ramalina combeoides Nyl.?
- 219 Lobaria oregana Muell. Arg.
- 221 Sphaerophorus coralloides Pers.
- ✓ 222 Pannaria pezizoides (Web.) Trev.
- 226 Not determined.
- 229 Ramalina subfarinacea Nyl.
- ✓ 231 Peltigera apthosa (L.) Willd.
- 232 Pertusaria coriacea Th Fr. var. ochrolechioides Vain.
- 241 Cetraria islandica (L.) Ach.
- 242 Stereocaulon alpinum Laur.
- 248 Alecortaria divergens Nyl.
- 251 Cladonia foliacea (Huds.) Schaer. primary thallus only.
- 252 Cladonia cerasphora Vain. ?
- 253 Stereocaulon denudatum Floerke
- ✓ 256 Peltigera membranacea (Ach.) Nyl.
- 265 Dactylina madreporiformis (Ach.) Tuck.

*
✓ No duplicate material
251 + Dodge each have
just cat.

See Evans
letter of
duplicates

- ✓ 266 *Dactylina madreporiformis* (Ach.) Tuck.
- 269 *Leberia oregana* Muell. Arg.
- 289 *Alectoria chalybeiformis* (L.) S.F.Gray
- 290 *Cetraria lacunosa* Ach.
- 293 *Alectoria ochroleuca* (Ehrh.) Nyl.
- 296 *Parmelia saxatilis* (L.) Ach.

This is revised (final) list

Attu Lichens - Van Schaack *Determined by C.W. Dodge.*

- 176 Peltigera canina (L.) Willd.
185 Parmelia sulcata Tayl.
186 Parmelia omphalodes (L.) Ach. ? thought by Scholander to be new
187 Parmelia saxatilis Ach. f. furfuracea Schaer.
197 Sphaerophorus coralloides Pers O S. globosus (Huds.) ALSm.
199 Pannaria pezizoides (Web.) Leight.
205 Parmelia omphalodes (L.) Ach. ?
223 Undeterminable, too immature
313 Peltigera apthosa (L.) Willd.
314 Thamnolia vermicularis (Sw.) Schaer.
315 Parmelia alpicola Th. Fr. fertile!
316 Lecidea Laurentiana Nyl. (gray) & Rhizocarpon geographicum (L.) DC
on same rock
317 Sarcogyne apparently a new species
318 Cetraria islandica (L.) Ach.
319 Alectoria divergens (Ach.) Nyl.
320 Thamnolia vermicularis (Sw.) Schaer.
321 Pertusaria oculata
322 Peltigera apthosa (L.) Willd.
323 Pertusaria bryontha
325 Peltigera canina (L.) Willd. ? a very dwarf form
326 Dactylina madreporiformis (Ach.) Tuck.
327 Stereocaulon fastigiatum Anzi v. dissolutum H. Magn.
338 Caloplaca elegans (Link) Th. Fr.
339 Xanthoria candelaria (L.) Kickx v. pygmaea Fr.
343 Lopadium fuscoluteum (Dicks.) Mudd
345 Peltigera praetextata (Flke.) Zopf
346 Lopadium fecundum Th. Fr. ?
386 Gyrophora cylindrica (L.) Ach.
376 Nephroma arcticum (L.) Torss.
413 Peltigera canina (L.) Willd.
415 Nephroma arcticum (L.) torss.
420 Solorina crocea Ach.
434 Cetraria islandica (L.) Ach.
436 Cetraria islandica (L.) Ach.
446 Gyrophora hyperborea (Hoffm.) Ach.
447 Alectoria ochroleuca (Ehrh.) Nyl.
449 Alectoria pubescens (L.) Howe (Under Parmelia in many herbaria)
450. Solorina crocea Ach.
453 Solorina crocea Ach.
454 Thamnolia vermicularis (Sw.) Schaer.
455 Stereocaulon Wrightii Tuck.
456 Peltigera apthosa (L.) Willd.
457 Cetraria nivalis (L.) Ach.
458 Thamnolia vermicularis (Sw.) Schaer.
472 Scutula tuberculosa (Th. Fr.) Rehm parasitic on Peltigera malacea
(Ach.) Funck
508 Pannaria Hookeri (Borr.) Nyl.
516 Peltigera canina (L.) Willd. v. rufescens (Weis) Fw. ? very immature
547 Cetraria islandica (L.) Ach.
698 Byrophora vellea (L.) Ach.
706 Byrophora hyperborea (Hoffm.) Ach.
866 Peltigera malacea (Ach.) Funck.
1041 Pertusaria trachydactyla Vainio.

*This may be wrongly
labeled*

Chadonias for Evans

Originals: entire collection of each number sent.
Evans to retain, for himself except in case
of mistakes. On return these specimens
are to be processed, wherever possible
split, one portion for USNH, one for
Van Schaack - any balance to be reserved
as duplicates by USNH.

180	 	435
190	307	444
191	310	445
192	311	448
227	348	635
239	387	881
	433	

250
413

Cladonia and Hepatics from Attu Island collected

by G.B. Van Schaack, 1944 to 1945.

UNICATES

- x • 148 *Conocephalum conicum* (L.) Dum.
x • 158 *Marchantia polymorpha* L.
x • 170 *Conocephalum conicum* (L.) Dum.
177 *Cladonia bellidiflora* (Ach.) Schaer
• 178 *Cladonia coccifera* (L.) Willd. P-
usnic acid +
barbatic acid
179 *Cladonia mitis* Sandst.
228 *Cladonia squamosa* (Scop.) Hoffm.
• 236 *Cladonia coccifera* (L.) Willd.
237 *Cladonia chlorophaea* (Floerke) Spreng. P+
• 244 *Cladonia alpestris* (L.) Rebenh.
• 251 *Cladonia turgida* (Ehrh.) Hoffm. K+ pale yellow
atrorubine +
• 252 *Cladonia gracilis* (L.) Willd. var. *chordalis* (Floerke) Schaer
x 259 *Conocephalum conicum* (L.) Dum.
x • 277 *Barbilophozia lycopodioides* (authority ?)
x • 285 *Scapania undulata* (L.) Dum.
• 300 *Cladonia bellidiflora* (Ach.) Schaer

Det. A. W. Evans
Nov. 1945

x = Hepatics.

This is part of last list

Cladonia and Hepatics from Attu Island collected by G.B. VanSchaeck, Det. A. W. Fernald
Nov. 1945 from duplicate material.

- 172 *Cladonia alpestris* (L.) Rabenh. P-
- 172a *Cladonia alpestris* (L.) Rabenh. P-
- 193 *Cladonia chlorophaea* (Floerke) Spreng f. *simplex* (Hoofm.) Arn P+
- 213 *Cladonia mitis* Sandst. P-
usnic acid +
- 213a *Cladonia mitis* Sandst. P-
- 214 *Cladonia gracilis* (L.) Willd. var. *elongata* (Jacq.) E. Fries P+
- 214a *Cladonia furcata* (Huds.) Schred. var. *pinnata* (Floerke) Vain. P+
- 215 *Cladonia furcata* (Huds.) Schred. var. *pinnata* (Floerke) Vain. P+
- 238 *Cladonia rangiferina* (L.) Web. P+
atrorose +
- 240 *Cladonia uncialis* (L.) Hoffm. usnic acid +
- 243 *Cladonia gracilis* (L.) Willd. var. *elongata* (Jacq.) E. Fries P+
- 245 *Cladonia pleurota* (Floerke) Schaer usnic acid +
zeorine +
- 246 *Cladonia squamosa* (Scop.) Hoffm. K-
P-
squamic acid +
- 262 *Cladonia merochlorophaea* Asahina P+
mero-chlorophaeic acid +
- x • 268 *Scapania undulata* (L.) Dum.
- x • 272 *Jungermannia cordifolia* Hook.
- 286 *Cladonia gracilis* (L.) Willd. var. *elongata* (Jacq.) E. Fries P+

x = Hepaticae.

This is part of first lot.

Cladoniae of Attu Island

(by Evans)

180. *C. Boryi* f. *lacunosa* Bory) Tuck.
 190. *C. uncialis* (L.) Web., as named.
 191. *C. furcata*, as named; referable to var. *racemosa* (Hoffm.) Floerke.
 192. *C. gracilis* var. *elongata* (Jacq.) Fr.
 227. *C. coccifera* (L.) Willd. Usnic acid +. barbatic acid +.
 239. Equals 192
 250. *C. pleurota* (Floerke) Schaer., probably.
 267. *C. alpestris* (L.) Rabenh., as named. P-.
 307. *C. sylvatica* (L.) Hoffm. P+.
 310. *C. cornutoradiata* f. *repitito-prolifera* Sandst. P+.
 311. *C. bellidiflora* f. *subuliformis* (Wallr.) Vainio.
 312. Equals 250
 348. Equals 311 (mostly)
 387. *C. alpestris* f. *aberrans* Des Abbayes (P+yellow) + 307 (P+red).
 I have been unable to demonstrate psoromic acid in the *C. alpestris*, although Des Abbayes attributed to this substance the reaction with P.
 433. *C. turgida* f. *stricta* Nyl. K+yellow, P+red, atronorins +.
 Degelius reports this form, as var. *stricta*, from Unalaska Island.
 435. Equals 192
 444. Equals 227. Usnic acid +, barbatic acid +.
 445. *C. chlorophaea* f. *prolifera* (Wallr.) Arn. + f. *simplex* (Hoffm.) Arn. P+.
 448. *C. bellidiflora* (Ach.) Schaer., indefinite as to form.
 453. Equals 192 (mostly)
 635. *C. pleurota* (Floerke) Schaer. Usnic acid +, zeorine +. In the other two specimens referred to *C. pleurota* (Nos. 250 and 321) I have demonstrated usnic acid but neither barbatic acid (characteristic of *C. coccifera*) nor zeorine (characteristic of *C. pleurota*). These two numbers are badly weathered and although I feel very sure they represent *C. pleurota*, it might be unwise to base published records on them.
 881. *Alectoria ochroleuca* (Ehrh.) Nyl.

This is second (final) list for Evans.

Specimens transferred to box of Dodge det. material.

Extract from letter from A. W. Evans to W. R. Maxon, dated April 1, 1946.

It has been a privilege to study the Collection of Cladoniae from Attu Island. The only previous collection from this remote locality, so far as I know, was made by Dr. Eric Hulten in 1932 and reported upon by Degelius in 1937. In this report the following seven species are listed: *C. alpestris*, *C. belliflora*, *C. carneola*, *C. coccifera*, *C. gracilis* var. *elongata* (listed as *C. elongata*), *C. rangiferina*, and *C. uncialis*. With the exception of *C. carneola* these species are all represented in Lt. Van Schaack's collection.

Perhaps the most puzzling form in the present series is N^o. 433, which I have referred to *C. turgida* f. *stricta*. This plant bears a strong resemblance to certain forms of *C. uncialis* but microchemically they are very distinct, since *C. turgida* is P+ and contains atronorine, whereas *C. uncialis* is P- and contains usnic acid. I strongly suspect that *C. turgida* f. *stricta* is the same as *C. Wainii* Savicz, based on material collected in Kamchatka. This species, according to Savicz, is distinguished from *C. uncialis* by its grayish color (with no trace of yellowish) and by the fact that it turns yellow with K, instead of being K-. The reaction with K might well indicate the presence of atronorine. Unfortunately I have seen no specimens of *C. Wainii* and hardly know where I could secure them.

.... The labels of the specimens in the boxes are in the brown envelope and I have written my determinations for these, as well as for the specimens in the white packets, on separate slips of paper.

Entered in
field book

409 Mitchell St.

Ithaca, N.Y.

Feb. 17, 1907.

Dear Mr. Van Schaack:

I see I have been somewhat late
in reporting on the four mosses from Adir. which
you sent me, for which lateness I am sorry.

I am in correspondence with Mr. Harvill,
but will let you rely on the identifications to
him, as you sent me the specimens.

No. 169. } *Bryum turbinatum* (Hedw.) Schwaegr.
153 }
156 }

No. 153 is partly another moss, probably a
Brachythecium, but I have not followed it
up further.

No. 271. *Bryum bimum* Schreb.
bimum

You live in an interesting botanical
region, but probably didn't find the climate
and tourist accommodations all that one
might desire.

Sincerely yours,

P. L. Roy Anderson

Thanks for specimens.

Aleutian Islands plants, collected by Lt. G. B. VanChaack, U.S.N.
(Museum No. 168737)

Determined by E. H. Walker, U. S. National Museum, November 1944.

1. *Vaccinium uliginosum* L. (You wondered if certain variations were due to disease. Although I am not a pathologist, I should think that they are probably due to environmental or developmental differences.)
2. *Loiseleuria procumbens* (L.) Desv. *mountain azalea (cranberry-like fl.)*
3. *Vaccinium vitis-idaea* L. subsp. minus Lodd. (You considered as possibly "cranberry." The regular cranberry is *Oxycoccus*. This should be called mountain cranberry.)
4. *Galix reticulata* var. *subrotunda* Seringe (Specimen desired by USNH.)
5. *Cassiope lycopodioides* (Pall.) DC.
6. *Phyllodoce aleutica* (Spreng.) Heller *mountain heath (yellow fl.)*
7. *Rhododendron kamschatcicum* Pall.
8. *Fritillaria camschatcensis* (L.) Ker-Gawl.
9. *Maianthemum dilatatum* (Howell) A. Nels. & Mcbr.
- ? 10. *Habenaria* sp. (*Very small green flowered orchids?*)
- ? 11. " " "
12. *Orchis aristata* Fisch.
13. " " "
14. *Platanthera hyperborea* (L.) Lindl. (*green flowered*)
15. " " var. *dilatatooides* Hult. I can not be sure about the variations. (*I think I called this dilatata.*)
16. *Coptis trifolia* (L.) Salisb.
17. *Ranunculus eschscholtzii* Schlecht.
18. " " "
19. " *nelsoni* (DC.) A. Gray
20. " *eschscholtzii* Schlecht.
21. " *acer* L.
22. " " "
23. *Anemone narcissiflora* var. *villosissima* DC.
24. *Draba borealis* DC. *single yellow (leaf Schult?)*
25. *Cardamine umbellata* Greene *alpine areas (Edwards?)*
26. " " "
27. *Saxifraga oppositifolia* L. vel aff.
28. " *aleutica* Hult.?
29. " *bronchialis* subsp. *funstonii* (Small) Hult.
30. " (You called *S. hirculus*, but I doubt if it is that species. I do not know what it is.)
31. *Saxifraga bracteata* D. Don
32. " *punctata* L. (You mention No. 5 as pink. This must be an unusual form. We ought to have this specimen in the USNH.)
33. *Sibbaldia procumbens* L. *light green red tinged wedge shaped leaves*
34. *Potentilla emarginata* Pursh (Hultén does not mention this name except in his discussion of *P. nana*. I suspect he is confused in regard to *P. nana*. Forsild, another arctic authority, has determined many of our specimens as *P. emarginata* but none as *P. nana*.)
35. *Potentilla villosa* Pall.
36. *Rubus chamaemorus* L. *cloud berry*
- 37, 38, 39, 40, 41. *Epilobium* spp. (I can not differentiate the smaller-flowered species, it is a task for an expert.)

Small broad leafed plants of snow - found after thawing.

42. *Trientalis europaea* subsp. *arctica* (Fisch.) Hult. *Harlowan*
43. *Primula cuneifolia* subsp.
44. *Taraxacum* sp. (It is practically impossible now for anyone except a specialist to identify dandelions to species. Even Hultén left the problem to his "wedish associates.")
45. *Erigeron unalaschkensis* (DC.) Vierh. (*E. humilis* Graham) (Det. Blake)
(This specimen is needed in the USNH)
46. *Antennaria dioica* (L.) Gaertn. *probably OK. Tuckermans.*
47. *Chillea borealis* Bong.
48. *Erigeron borealis* (Pursh) Greene (*Aster peruvianus Pursh*) Although Hultén considers this in Aster, it is usually placed in Erigeron.)
49. *Linnaea borealis* L.
50. *Veronica stellari* Pall.
51. *Veronica grandiflora* Gaertn.
52. *Lathyrus maritimus* (L.) Bigel.
53. *Campanula dasyantha* Bieb. *galienus!*
54. *Campanula lasiocarpa* Cham.
55. *Stellaria sitchensis* Steud. *very like flavesco - app. leaves - on Alaska Id.?*
56. *Stellaria crispa* Cham. & Schl.
57. *Honckeya peploides* (L.) Ehrh. *Scotchweed sandewast*
58. *Pyrola asarifolia* var. *incarnata* (DC.) Fernald - *Think this is P. minor*
59. *Pedicularis chamissonis* Steud.
60. *Geranium erianthum* DC.
61. *Streptopus amplexifolius* (L.) DC. *Cucumber plant - twisted black (Solomon's Is.)*
62. *Pinguicula vulgaris* L.
63. *Oxyria digyna* (L.) Hill *mountain cornet*
64. *Cornus suecica* L. *mountainberry*
65. *Conioselinum gmelini* (Cham. & Schl.) Coult. & Rose *harlock parsley*
66. *Gentiana auriculata* Pall. (Hultén says this species is unknown in the Aleutians, but occurs on Commander Is. If he is right, then this specimen represents its first known occurrence in the Aleutians. Needed in USNH.) *(Alaska - found near 23-25° latitude)*
67. Possibly the basal leaves of *Cochlearia officinalis* or *C. oblongifolia*.
68. Basal leaves, not recognized. *(Sagebrush vegetation leaves)*
69. *Linnaea borealis* L.
70. *Plantago macrocarpa* Cham. & Schl. *plantain*
71. *Artemisia arctica* Less. *Mountain sagebrush (found on rocks - much like?)*
72. *Geum rossii* (R. Br.) Sér.
73. *Draba hyperborea* (L.) Desv. [*Nesodraba grandis* Langsd.] Greene]
74. *Arnassia palustris* L. *Charming white flower of complex structure*
75. *Veronica stellari* Willd. *structure. Chichagof.*
76. *Moslingia lateriflora* (L.) Fenzl. *Very sandewast on road to Alaska*
77. " " " " " "
78. *Cerastium fischerianum* Sér. *checkered - found on road to Alaska up hill.*
79. *Sagina intermedia* Fenzl. *Pendwort - very much found on rock beyond Alaska.*
80. *Agotis glauca* Gaertn. *Don't remember*
81. *Euphrasia mollis* (Ledeb.) Wettst. "
82. *Tofieldia coccinea* Rich. (Your sheet 82b seems to be distinct. ⁺ resembles some material we have from Japan labeled T. nuda and T. nutans. I shall investigate the matter further. Specimen needed in USNH.)
83. *Claytonia sibirica* L.
84. *Viola langsdorfii* Fisch.
85. "Violet" I did not find the specimen.
86. *Veronica humifusa* Digson
87. " " " " ?

Artemisia
See elements

Like young collinsii plant?

88. ~~Missing~~ *Sagina* sp. ~~Don't remember~~
89. *Pedicularis* sp. (Possibly it is the same as no. 59. These are ~~xxxx~~ basal leaves only.)
90. *Cerastium aleuticum* Hult.? ~~Don't remember~~
91. *Sibbaldia procumbens* L. ~~See #33~~
92. *Rubus stellatus* J. E. Sm. ~~hazy - red purple 6-7 petals.~~
93. *Botrychium lanceolatum* (Gmel.) Ångstr. (Det. W. R. Maxon) ~~Don't rem.~~
94. *Empetrum nigrum* L. ~~cranberry~~
95. *Sorbus sambucifolia* (Cham. & Schl.) Roem. ~~membran. oak~~
96. "Orchid" This is scarcely identifiable.
97. *Aconitum maximum* Pall.
98. *Arabis lyrata* subsp. *kamtschatica* Fisch. ~~Rock wet~~
99. *Brassica* sp. (This is clearly not *B. campestris*, the only species listed by Hulten, but I can not identify it further. The same species was collected by ~~Morehouse in the Aleutians~~)
100. *Epilobium angustifolium* L. ~~Should be Laki folium~~
101. *Galaxia auriculata* DC. We need this specimen in the USNH. ~~Don't remember~~
102. *Taraxacum* sp. See note with no. 44.
103. *Senecio pseudoarnica* Less. ~~Don't remember~~
104. *Arnica unalaschensis* Less.
105. *Aster peregrinus* Pursh [*Erigeron peregrinus* (Pursh) Greene] ~~Don't remember~~
106. *Hieracium triste* Willd.
107. *Picris hieracioides* subsp. *Kamtschatica* (Ledeb.) Hult. We need this specimen in the U.S. Nat. Herb.
108. *Chrysanthemum arcticum* L.
109. *Anaphalis margaritacea* var. *occidentalis* Greene
110. *Iris setosa* Pall. (var. *platyrhyncha* Hult.?)
111. *Lupinus nootkatensis* Donn
112. *Mertensia maritima* (L.) S. F. Gray
113. *Rhinanthus groenlandicus* Cham. ~~White I guess this resembles.~~
114. *Gastilleja unalaschensis* (Cham. & Schl.) ~~Malte & I have pointed up~~
115. *Stellaria media* (L.) Cyril ~~Don't remember~~
116. *Rumex fenestratus* Greene (= *R. occidentalis* Wats.) ~~Barred - don't remember~~
117. *Ligusticum hulthenii* Fernald ~~Don't remember~~
118. *Veronica americana* Schw. ~~Large fleshy succulent plant, small blue blossoms?~~
119. *Coelopleurum gmelini* (DC.) Ledeb.
120. *Heracleum lanatum* Michx.
121. *Conioselinum gmelini* (Cham. & Schl.) Coult.
122. *Cirsium kamtschaticum* Ledeb. We need this specimen in the U. S. National Herbarium.
123. *Senecio palmatus* (Pall.) Ledeb. " " " ~~In Chitlogof~~
124. *Aruncus sylvester* Kostel. Specimen need in U.S.N.H.
125. *Polygonum viviparum* L. ? ~~Thought this was with subarctic~~
126. *Eriophorum* sp. ~~Wetland sedge~~
127. *Luzula multiflora* (Retz) *Lejeune* var.
128. *Poa arctica* R. Br. (Det. A. Chase) Specimen desired by USNH.
129. *Dryopteris oreopteris* (Ehrh.) Maxon (Det. Maxon)
130. *Lycopodium stichense* Rupr. " "
131. *Festuca rubra* L. (Det. Chase) Specimen desired by USNH
132. *Carex stygia* Fries
133. *Dryopteris linneana* C. Chr. (= *D. disjuncta* (Rupr.) Morton)
134. *Athyrium filix-femina* subsp. *cyclosorum* (Rupr.) C. Chr. (Det. Maxon)
135. *Dryopteris dilatata* (Hoffm.) A. Gray (Det. Maxon)
136. *Polystichum* sp. (Det. Maxon) This specimens desired by USNH.
137. *Athyrium filix-femina* subsp. *cyclosorum* (Rupr.) C. Chr. (Det. Maxon)
138. *Dryopteris dilatata* (Hoffm.) A. Gr. (Det. Maxon)
139. " *oreopteris* (Ehrh.) Maxon " "
140. *Geum calthifolium* Menzies
141. " *macrophyllum* Willd.

Polypodium (cf. *Abrams*)

#519 *app. leiperianum* in blades small, deltoid
oblong, pinnae, rounded oblong to oval,
rounded, nerves mostly 2-forked, sori
to ends of pinnae

#795 *app. californicum* in stems shorter than
blades, blades deltoid, pinnae long
linear, obtuse, lower slightly apart,
sori oval.

732 *Polypteron kamtschaticum* (Steud.) Fourn.

is of date 1930 Fourn. *Jl. Bot. et Ge.*

Extr. V (1930), 94.

and = *P. microclanys* Kodama in

Tohyo Bot. Mag. XXIX (~~1915~~) 326.
1915

See *Jl. U.S.S.R.* v. 1. p. 47.

C O P Y

E. W. Walker
Assistant Curator
U. S. National Herbarium
Washington, D. C.

The specimens of Draba which you sent me on August 11, are identified as follows:

No. 463	D. Hyberbarea (L.) Desv.
No. 850 & 423	D. Borealis Dc.
No 752	D. Aleutica E. Ekm.

I am sorry there has been so much delay in getting these determinations to you.

Very truly yours,

G. L. Hitchcock

ClH/hla

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C. 25

October 23, 1946

Mr. George B. Van Schaack
Department of Mathematics
Union College
Schenectady, New York

Dear George:

Yours of the 8th and the 17th are at hand. I am glad to hear about Hardy's collection. Have you sent a note concerning it to Thomas, or does he not care for such notes?

Steere gave me a résumé of his ideas apropos Hultén's suggestions. When I get Okinawa settled I'll take up the getting off of more material to Steere.

Hultén has returned the loaned unicates. Your determinations follow in quotation marks with notes on his annotations.

58. "Pyrola minor L."
Your determination not altered.
79. "Sagina intermedia Fenzl."
S. intermedia Fenzl. (det. Hultén)
143. "Oxycoccus microcarpus Turcz." No annotation
- ✓ 431. Pyrola minor L. Apparently his determination.
- 499a. "Sagina" intermedia Fenzl. Apparently his specific determination.
518. "Taraxacum" ceratophorum Led. (coll.) det. G. Haglund. Hultén adds: "Probably new. Too scanty material for description." Whether Haglund's determination or Hultén's note was first is not clear.
538. "Geum calthifolium X rossii." No annotation
551. "Cardamine" umbellata Greene Dwarfed specimen.
- ✓ 563. "Taraxacum trigonolobum Dahlst" Determination confirmed by Haglund 1946.
567. "Sagina" intermedia Fenzl.
573. "Eriophorum" medium Ands.
651. "Sagina" intermedia Fenzl.
659. "Primula." Hultén says: "This agrees with P. tschuktschorum Kjellm. Probably a variety of P. eximia Greene."
742. "Sagina" intermedia Fenzl.
744. Same as 518
746. "Aphragmus eschscholtzianus Andrzej" No annotation.
889. "Eriophorum" medium Ands.
- Morehouse 2017. "Viola epipsila Ledeb.?" Det. Walker. Hultén says: "V. selkiirkii Pursh. New to the Aleutians."

Concerning the missing authorities mentioned in your October 17th letter: They are Potamogeton filiformis Pers., P. alpinus var. tenuifolius (Raf.) Hultén (except that Fassett's manual of Aquatic plants considers P. alpinus as a synonym of P. tenuifolius Raf.) and Sparganium angustifolium Michx. The number 1041 is indeed an error for 1012.

Order entered in field book

Lutherborn det sheet

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, \$300
(GPO)

Dr. Geo. B. Van Schaack
Dept. of Mathematics
Union College
Schenectady
N. Y.

Oct. 8, 1946

Dear Dr. Van Schaack:

Dr. Correll has determined your no. 825 as *Habenaria chorisiana* Cham. It was formerly designated as *Platanthera ditmariana* Kom. He adds that the plant is larger than usual.

Sincerely yours,

E. H. Walker

E. H. Walker
Assoc. Curator

rechecked in file.

Entered in field book

Attu aquatics (Van Schaack) determined by Fassett
(from letter of Walker, 9/27/46)

Sparganium hyperboreum Lealand (?)	683, 950
" " "	868
angustifolium Michx.	879, 955
^{Pers.}	
Potamogeton filiformis, (typical)	1011, 1012
alpinus, var. tenuifolius	1012
^{Balkis}	(Ref) ¹ 720.
<i>Caellotricha</i> sp.	956
<i>Fountainia</i> sp.	685

L. KNUDSON, PROFESSOR
A. J. EAMES, PROFESSOR
L. W. SHARP, PROFESSOR
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R. T. CLAUSEN, ASSOCIATE PROFESSOR

NEW YORK STATE COLLEGE OF AGRICULTURE
AT CORNELL UNIVERSITY
ITHACA, NEW YORK
—
CORNELL UNIVERSITY AGRICULTURAL
EXPERIMENT STATION
—
WILLIAM I. MYERS, DEAN
—
DEPARTMENT OF BOTANY

not entered in
field book

August 10, 1946

Mr. George B. Van Schaack
West Cossackie, New York

Dear Mr. Van Schaack:

Recently Dr. Walker sent me for determination seven collections of *Ophioglossaceae* obtained by you on Attu Island. I name them as follows:

- 755 - *Botrychium boreale* Milde subsp. *obtusilobum*
(Kuprecht) R. T. Clausen
- 860 - *Botrychium lunaria* (L.) Sw. var. *typicum*
- 926 - *Botrychium lanceolatum* (Smel.) Angotr.
subsp. *typicum*
- 927 - *Botrychium lunaria* (L.) Sw. var. *typicum*
- 933 - *Botrychium boreale* Milde subsp. *obtusilobum*
(Kuprecht) R. T. Clausen
- 998 - *Botrychium lunaria* (L.) Sw. var. *typicum*
- 999 - *Botrychium lunaria* (L.) Sw.
 - a = var. *typicum*
 - b = var. *minganense* (Victorin) Dole

Thanks very much for the unicates and for the privilege of examining these interesting specimens.
With kind regards,
Sincerely,
Robert T. Clausen

Excerpt from letter to W.R. Maxon from ^{Cultured in field book} P.A. Murray
Apr. 25, 1946.

Deter. *Epilobium alpinum* L. V.S. 792, 1029, 695
589, 741

E. Behringianum Hausskn. V.S. 572, 785, 790
791, 786, 787, 789, 788

E. latifolium L. var. *kamtchaticum* Hausskn.
V.S. 833

E. glandulosum Lehm V.S. 793

all above
Retained
Def. by Bailey Hortorium.

Epilobium to be sent to Mung for determination.

E. latifolium L. Is this var. *Kantschalicum* Hausskn.?

100 ✓ (USNH sheet 1874838) on loan

833 ✓ Single stalk.

E. angustifolium L. Is this var. *macrophyllum* (Hausskn.) Fern.?

948 ✓ Unicake

E. sp.

37 ✓ (USNH 1874835) on loan

38 ✓ (USNH 1874837) on loan

39 a (USNH 1874836) on loan

39 b ✓ Unicake

40 ✓ Unicake

41 ✓ Unicake

1029 ✓

785 ✓

786 ✓

787 ✓

788 ✓

789 ✓

790 ✓

791 ✓

792 ✓

793 ✓

741 ✓

695 ✓

589 ✓

57 ✓

Epilobium

Shipment Fall 44.

37

38

39 ~~(39 b)~~ a

39 b

40

41

100

Shipment Fall 45

572

589

695

741

785

786

787

788

789

790

791

792

793

833

948

1029

Lycopodiaceae

130
144
146
149
161
165
212
254
273
364
365
412
625
658
847
851
852
865
967 a
967 b
968
969
970
971
1030
1031

Lycopodiaceae

- 130 *L. nitcheuse* Rupr. (Det. W. R. Maxon)
144 *L. ^{clavatum} ~~annatum~~* L.
146 *L. clavatum* L. (Det. W. R. Maxon)
149 *L. selago* L.
161 *L. alpinum* L. (Det. W. R. Maxon)
165 *L. selago* L. (Det. W. R. Maxon)
212 *L. selago* L. (Det. W. R. Maxon)
254 *L. alpinum* L. (Det. W. R. Maxon)
273 *L. annatum* L. (Det. W. R. Maxon)
364 *L. clavatum* L.
365 *L. nitcheuse* Rupr.
412 *L. selago* L.
625 *L. selago* L.
658 *L. annatum* L.
847 *L. alpinum* L.

Lycopodiaceae - cont.

- 851 *L. annotinum* L.
852 *L. clavatum* L.
865 *L. annotinum* L.
967a *L. alpinum* L.
967b *L. alpinum* L.
968 *L. selago* L.
969 *L. sitchense* Rupr.
970 *L. clavatum* L.
971 *L. annotinum* L.
1030 *L. selago* L.
1031 *L. sitchense* Rupr.

1st shipment - June 1944 Package # 21836 Mus # 6531
#5 141 #168737

2nd shipment - May 20th, 1945 Package # 21937 Mus # 670 ✓
\$ 145 - 148 #170408

150

152 - 158

160 - 170

172 - 175

177 - 179

181 - 184

188 - 189

193

195

198

200 - 204

206 - 210

212 - 222

224 - 233

235 - 238

240 - 244

246 - 263

265 - 266

268 - 277

281 - 300

302

3rd shipment - late May, 1945 Package # 21947
Mus # 6710

142

143

171

264

301

A Brand

B Brand

#170463

of shipment - Fall 1942

223

303 - 1046

Scale A B C D

Package #

#

Mass. # 6855

For Univ of Wash.

Excl. grasses I have about 57 sp.
diff. from those you sent. Of these
I have, however, duplo of only 33 that
I can send.

Of my remaining duplo (except grasses) I
do not have a great deal of material in
most cases but am able to send you
35 numbers. All of my grass collection is
to remain undistributed until I have had
a chance to work on it with Mr. Chase.
When it is distributed I shall be able to send
you about 70 numbers.

This totals 138 numbers against the
130 you sent me. I have laid aside
from the set you sent me some 93 numbers
of which I already have your material.
To balance the account I shall be glad to
return these 93 numbers if you can use
them. Or if you prefer I shall be glad
to send you about a hundred numbers
of material collected in the
Northwestern U.S. during the last
summer. I realize that ~~Russian~~

material we ask for this year is
not very valuable, but it is possible
that as a far western herbarium your
collection of it may to not yet be
extremely large.

I. Species not included in set sent me (except grasses)			
<i>Dryopteris disjuncta</i>	501	mat. plants for	not scarce ✓
<i>Athyrium alpestre</i>			none
<i>Polypodium Kautschianum</i>			none
<i>Athyrium filix-ferina</i>	1016, 670, 670		✓
<i>Batrachium laevigatum</i>			none
" <i>barbatum</i>			none
<i>Equisetum variegatum</i>			none
<i>Sparganium angustifolium</i>	955	✓	
<i>Potamogeton filiformis</i>			none
<i>Carex lyngbyei</i>	863		✓
<i>anthracantha</i>	958	✓	
<i>chyloxa</i>	570		
<i>physocarpa</i>			none
<i>circinata</i>	925		✓ none
<i>maculosa</i>			none
<i>hindii</i>			none
<i>Weylandii</i>	1023	✓	
<i>Juncus falcatulus</i>	994	✓	
<i>Luzula labradorica</i>	394		✓
<i>arcuata</i>	535	✓	✓
<i>Waldenii</i>	845		✓

<i>Coelogyllum</i>	<i>inide</i>			none
<i>Platanthera</i>	<i>ditmariana</i>			none
	<i>chariscana</i>			none
<i>Lichera</i>	<i>caucasicoides</i>	859		/
<i>Microstylis</i>	<i>monophylla</i>			none
<i>Salix</i>	<i>arctica</i>	398	✓	
<i>Thalictrum</i>	<i>islandicum</i>	732	✓	
<i>Clytostoma</i>	<i>chariscanum</i>			none
<i>Stellaria</i>	<i>versifolia</i>	<i>arctica</i>	745	✓
"	<i>arctica</i>		778	✓
	<i>var. Boeag.</i>		605	✓
<i>Cerastium</i>	<i>arcticum</i>	427	✓	
	<i>fischerianum</i>	661	✓	
<i>Sagina</i>	<i>litorea</i>			none
<i>Mimulus</i>	<i>leptocarpus</i>	846, 528, 422		✓
<i>Anemone</i>	<i>richardsonii</i>	575		✓
<i>Ranunculus</i>				

<i>Althaeaeum eschscholtzianum</i>		none
<i>Cardamine vegeliana</i> 668	✓	
<i>helicifolia</i>		none
<i>Daba hyperborea</i>		none det
<i>aleutica</i>		" "
<i>Saxifraga aleutica</i> 750	✓	
<i>maculata</i> 554	✓	
<i>unalauskensis</i>		none
<i>Parnassia palustris</i> 883		none?
<i>Potentilla nana</i>		none
<i>rossii</i> 874	✓	
<i>Viola spitzelsa repens</i>		none
<i>Epilobium alpinum</i> 792	✓	
<i>behringianum</i> 785-791	✓	
<i>Coincyaclium guelinii</i>		none
<i>Lythrum hultenii</i>		none
<i>Hieracium kamtschaticum</i>		none
<i>guthriei auriculata</i> 929	✓	
<i>guthriei kamtschaticum</i> 824	✓	
<i>trifidum</i> 1007	✓	
<i>Erigeron unalauskensis</i> 753!		?
<i>Polygonum arcticum villosa</i> 871, 873		✓
<i>filesii</i> 913, 914, 1034, 1035		?

Picros hemisider 819

Id

✓

Taraxacum trigonolobum 606,976

✓

II. Species incl. in Hancey coll.

<i>Lycopodium alpinum</i>	967a
rotundum	1031
selago	212
<i>Selaginella selaginoides</i>	972
<i>Juncus meibomiaanus</i>	599
<i>Tofieldia californica</i>	632
<i>Cyrtopodium guttatum</i>	822
<i>Salix arctica</i>	1020
<i>Polygonum viviparum</i>	1922
<i>Stellaria media</i>	594
crispa	473
<i>Muehlenbergia lachrymans</i>	714
<i>Ranunculus repens</i>	595
sp.	467
sp.	894
sp.	604
<i>Caltha flammula</i>	607
<i>Barbarea orthoceras</i>	480
<i>Conium maculatum</i> sp.	952
<i>Asch. Lychnis</i>	377

<i>Saxifraga punctata</i>	513
<i>Potentilla palustris</i>	806
<i>Rathymus maritimus</i>	634
<i>Hesperis vulgaris</i>	520
<i>Luteleuca praevenens</i>	352
<i>Vaccinium ovalifolium</i>	442
<i>Mentha maritima</i>	666
<i>Prunella vulgaris</i>	996
<i>Vernonia humifusa</i>	697
<i>Aster peruvianus</i>	940
<i>Asplenium adnigrum</i>	1037
<i>Anaphalis margaritacea</i>	1036
<i>Arctostaphylos uva-ursi</i>	831
<i>Cassia auriculata</i>	1019

'Hardy' sent by U. & W. but not collected by me.

<i>Cryptogramma acrostichoides</i> R. Br.	#406, 53
<i>Equisetum limosum</i> L.	#388
<i>Polystichum andersonii</i> Hopkins (?)	316, 404
<i>Papaver alaskanum</i> Hueter	374
<i>Calamagrostis neglecta</i> Gaertn. (?)	344 358 (very doubtful)
<i>Potamogeton alpinus</i> Balbis	252
<i>Epilobium Bongardii</i> Reichenb.	167 (perhaps this)
<i>Potamogeton</i> sp.	251
<i>Brassica campestris</i>	267
<i>Cerastium heeringianum</i> C. S. var. <i>grandiflorum</i> (Fenzl) Hueter. 155 (?)	
<i>Juncus multiflorus</i> M. K.	248, 394, 393
<i>Ranunculus nivalis</i> L.	79
<i>Eriophorum chamissonis</i> C. A. Mey	320
<i>Stellaria longipes</i> Goldie	241 (?)
<i>Taraxacum officinale</i> L.	127
<i>Epilobium Hornemannii</i> Reichenb.	166 (?)
<i>Urtica urens</i> L.	380
<i>Cerastium heeringianum</i> C. S.	230
<i>Senecio vulgaris</i> L.	313
<i>Plantago junceoides</i> Lam.	90
<i>Salix arctica</i> var. <i>diplodictya</i> Trautvetter	173

'Hardy' sent by U. of W. (not checked off in vouch. list of self.)

<i>Bromus aleuticus</i> Trin.	362	
<i>Poa komarovii</i> Rech. (?)	204	
<i>Calamagrostis neglecta</i> Gaertn.	344	(doubtful).
	358	(very doubtful = <i>C. nutkanaensis</i> ?)
<i>Salix arctica</i> var. <i>obcordata</i> (And.) Rydb.	308, 109, 98	
" <i>diffracta</i> Trautvetter	173	
<i>Festuca rubra</i> L.	258, 355, 360, 372	
<i>Sporogonium hyperboreum</i> Loesl.	268	
<i>Luzula parviflora</i> (Ehrh.) Desv.	139	
<i>Deschampsia caespitosa</i> (L.) Beauv.	363	
" <i>beringensis</i> Huelt.	369, 365	
<i>Panicum bozgardii</i> Greene	200	
<i>Eriophorum rusciculatum</i> J. apud Hooker.	130, 203	
<i>Juncus balticus</i> Muhl. var. <i>Haenkei</i> E. Meyer	395, 161	
" <i>verbeecianus</i> Bong.	391, 392	
<i>Scirpus caespitosus</i> L.	206	
<i>Poa arctica</i> Tr. Br.	202	
<i>Phleum alpinum</i> L.	201, 231	
<i>Trisetum spicatum</i> (L.) Richt.	233, 291	
<i>Luzula multiflora</i>	229	
<i>Carex stygiaca</i> L.	159	
<i>Agrostis exarata</i> Trin.	259	
<i>Hieracium adonata</i> (L.) Mallenb.	290	

Labels written

Set II - part A Van Schaack

Botrychium

To be sent to Clausen for determination

Unicates to be mounted for USNH

Duplicates to be retained by Clausen

Unicates

✓ 999

✓ 860

✓ 933

✓ 755

Duplicates

926

998

927

Set II - part B - VanSchaech

Labels
written

Eriophorum

To be sent to ^{Hacker} O'Neill for determination.

Uniques to be mounted for USNH

Duplicates to be retained by O'Neill.

Uniques

✓ 889

✓ 573

Duplicates

402 ✓

622 ✓

869 ✓

Set II, part C. - Van Schaack

Labels written

Ranunculus

To be sent to Benson for determination.

Uniques to be mounted for US N H

Duplicates to be retained by Benson

Uniques

✓ 559
(best mounted)

Duplicates

595

465

467

894

597

608

466

468

604

832

951

330

This constitutes a distribution by species of
Ranunculus of other.

Set II - part D - Vaucluse

Droba

To be sent to Hitchcock for determination.

All are duplicates to be retained by Hitchcock

752

463

850

423

This constitutes a distribution by species
of Droba of Athens

Scrophulariaceae

Except for one unicate to be sent to
 Pennell for the Academy collection.

Determination of the unicate is requested
 and determination of the remainder would
 be appreciated.

Unicate

✓ 504

Dupls.

800 ✓

592

928

862 ✓

936

482 ✓

995

697 ✓

779 ✓

509 ✓

687

These sheets constitute a distribution by species
 of the above Scroph.

Set II - part F - Van Schaasch

Labels written

Agnesics.

To be sent to Jaccet for determination.

Uniques to be mounted for USNH.

Duplicates to be retained by Jaccet.

Uniques.

✓ 683

✓ 950

Dupls.

956

685

955

879

868

1012

1011

Set II - part G. - Vandschaack

Labels written.
Labels destroyed.

Salix

To be determined by Ball & then dep. in USNH.

579

525

399

1020

1021

398

443

380

429

395

552

556

734

367

451

383

Set II - part H. Van Schaumb.

Labels written

Miscellaneous. To be sent to Hueltner, possibly on loan.

Partly new or notable for Acker

Determination of all requested.

Uniques to be mounted for USNH

Dupls to be retained by Hueltner.

New to Acker (mostly tentatively determ., checks requested).

<u>Uniques</u>	<u>Dupls.</u>	
✓ 659	751	935
✓ 538	464	996
✓ 825	583	
1746	806	928
✓ 143	537	995
✓ Marchaux 2017	859	824
	652	753
	749	
	676	
	598	
	745	
	586	
	957	
	397	
	837	
	752	
	892	
	804	
	956	
	710	
	929	
	1000	

Set II - part N. cont. (Van Schaak)

Miscellaneous largely for determination.

	Unicates.	Duplicates.
<i>Sagina</i>	✓ 79	
	✓ 651	
	✓ 567	
	776	776
	742	931
	✓ 742	
	✓ 499a	
<i>Mimulus</i>		499 b
		846
		528
<i>Epitobium</i>		422
<i>alpinum</i> L.		792
<i>Stellaria</i> <i>richiana</i>		605
? <i>van Bergardi</i>		
<i>Conchocarpus</i> <i>replicata</i>		857
		668
	sp. ✓ 551	
<i>Pyralis</i> sp.	✓ 58	
		973
<i>Taraxacum</i> sp.		
	✓ 563	
	✓ 744	
	✓ 518	393
<i>Ericaceae</i> , genus?	✓ 431	
(sp.)		

Set II - part J - Van Schaack

Labels written

Sedges + Rushes

Duplicates for Hermann. (Det. already made).

1024

994

992

878

853

757

671

621

867

566

739

891

599

958

721

863

394

381

Set II - part K - Van Schaack

Antennaria

To be sent to David Keck, Carnegie Institute
of Washington, Palisades, Calif. for
determination

Unicals to be wanted for US Nat
Herb. for Keck.

Unicals

1034

1035

Dupls.

872

873

913

914

Set II - part L - Van Schaik

Recommends

To be sent to Benson for determination
Vivales to be measured for U.S.A.T.
Depth for Benson

Vivales

441

19

Hardy 124

Depth

Hardy 114

Lichens wet Clad 113
Clad 41

Festuca

Charles Taylor

Cornell B D

Dupl for Correll

805

870

859 ✓

809

708

756 ✓

823

822 ✓

Write labels for (all) . 805, 870, 809, 708, 823

+ one label (for inf) #s. 825, 1028, 807, 696, 613
550, 510, 652

Send Reber to Bailey

Send Gerns to ? (See name)

Send Bryson & Minion to Andrews

Send Lys - J. to Clausen

Index to Ewan

Soule G

212 ✓

351 ✓

372 ✓

501 ✓

506 ✓

711 ✓

732 ✓

954 ✓

967a ✓

968 ✓

969 ✓

970 ✓

971 ✓

972 ✓

993 ✓

998 ✓

1008 ✓

1016 ✓

1022 ✓

1026 ✓

1027 ✓

Says - Ruckes.Labels written
rechecked in D.L.

	I	(II Hermann)	III	IV
✓		381	381	
✓	490		490	490 (1)
✓	394	394	394	394 (1)
✓			491	491
✓	863	863	863	863 (2)
✓			492	
✓	721	721	721	721
✓			493	
✓	958	958	958	958 (1)
✓	569		569	569 (1-2)
✓			497	
✓	599	599	599	599 (3)
✓	701		701	701
✓		891	891	891 (2)
✓			1025	1025
✓			507	507 (1-2)
✓		739	739	
✓	1044		1044	1044
✓			535	535 (2)
✓			527	527
✓	566	566	566	566
✓			568	568
✓	867	867	867	867
✓			719	719 (1-2)
				720 (3)

Sedges + Rushes Cont

Labels written
reentered in D.H.

	<u>I</u>	<u>II</u>	<u>III</u>	<u>IV</u>
✓	621	621	621	
✓	631		631	631
✓	671	671	671	
✓			925	925 (4)
✓	757	757	757	757 (2)
✓	845		845	845 (2)
✓	853	853	853	853
✓			861	861 (2)
✓	878	878	878	878
✓	992	992	992	992
✓	994	994	994	994 (3)
✓	1024	1024	1024	1024
✓			1023	1023 (4)

Ericophorum spp.

intermedium	402	402	402	
	622	622	622	
?	889 un.		889	
russellum	869	869	869	869
?	573 thin.		573	

Labels written
Reentered in D.H.

Salix

I	II	III	IV
✓ 1383		383	
✓ 579	579	579	579 (2)
✓ 451		451	
✓ 367		367	
✓ 734		734	
✓ 556		556	
✓ 552		552	
✓ 525	525	525	525
✓ 395		395	
✓ 429			
✓ 399	399	399	399 (2)
✓ 380		380	380
✓ 443		443	
✓ 1020	1020	1020	1020 (2)
✓ 1021	1021	1021	1021 (2)
✓ 398		398	398

Labels completed.

Grass dupl.

Bromus

~~820~~ 2

643 2

990

Sauleda B 2

Poa

966 4

655 3

798 2

673 2

799 1

730 3

767 2

1001 3

884 1

942 3

947 2

759 2

903 2

989

645 2

584

901 3

917 2

896 2

898

944 6

390 3

997 3

590 2

900 3

899

1043

762

677 2

849

848?

Festuca

642 3

946 2

768 3

557

918 3

587 5

985 3

796 2

839

495 2

986 3

921 3

1003 3

grass dupls cont
Festuca cont.

735	3
558	2
886	3
821	4
835	3
909	3
910	4
982	
1010	3
844	-
907	3
764	2
884	
885	2
920	

Glyceria

724	2
961	2
887	
77	

Dactyloctenium

770	2
-----	---

Panicum

800	3
-----	---

Hordeum

849	5
675	3

Elymus

1005	4
981	7
841	2

Trisetum

763	
988	3
1002	
974	2
938	3
715	

Deschampsia

877	
565	3
941	2
772	2
855	3
904	3
700	2
692	
656	2

Grasses Dupl.

Deschampsia cont

630 3

991

960 5

758 2

902 4

906 3

945 3

726 2

922 4

1040 4

1042

760 2

915 2

Hieracloa

1004 3

812

Agracloa

965 2

964 2

854 2

780 3

761 2

783

729 2

984 3

771 3

963

1032 5

905 2

983 3

987 3

Phleum

644 2

690

784 2

404 2

Calamagrostis

725 2

731 2

769 2

908 2

1015 3

943 3

888 3

Attu specimens from Van Schaack's collection sent Hulten by USNH
in July 1948

Duplicates to be retained by Hulten

<i>Listera convallarioides</i> (Swartz) Ferr.	#859 ✓
<i>Microstylis monophyllos</i> (L.) Lindl.	#632 ✓
<i>Koenigia islandica</i> L.	#749 ✓
<i>Rumex acetosella</i> L.	#676 ✓
<i>Stellaria crispata</i> Cham. & Schlecht.	#598 ✓
" <i>ruscifolia</i> Pall.	
sep. <i>aleutica</i> Hult.	#745 ✓
" <i>sitchana</i> Steud. var.	
<i>Songardiana</i> (Fern.) Hult.	#605 ✓
<i>Sagina</i> sp.	#499b ✓
"	#776 ✓
"	#931 ✓
<i>Minuartia</i> sp.	#422 ✓
"	#328 ✓
"	#846 ✓
<i>Nuphar polysepala</i> Engelm.	#957 ✓
<i>Anemone richardsonii</i> Hook.	#397 ✓
<i>Cochleria officinalis</i> L.	#837 ✓
<i>Cardamine regeliana</i> Miquel	#668 ✓
" " "	#857 ✓
<i>Draba aleutica</i> E. Ekm.	#752 ✓
<i>Saxifraga aleutica</i> Hult.	#751 ✓
" <i>bracteata</i> D. Don	#454 ✓
" <i>unalaschkensis</i> Sternb.	#583 ✓
<i>Potentilla palustris</i> (L.) Scop.	#806 ✓
<i>Geum rossii</i> (R. Br.) Ser.	#537 ✓
<i>Trifolium repens</i> L.	#892 ✓
<i>Lathyrus palustris</i> L. sep. <i>pilosus</i>	
(Cham.) Hult.	#804 ✓
<i>Callitriche verna</i> L.	#956 ✓
<i>Viola</i> sp.	#710 ✓
<i>Epilobium alpinum</i> L.	#792 ✓
<i>Pyrola chlorantha</i> Swartz	#973 ✓
<i>Gentiana acuta</i> Michx. var. <i>plebeja</i>	
(Cham.) Wettst.	#1000 ✓
" <i>aleutica</i> Cham. & Schlecht.	#935 ✓
" <i>auriculata</i> Pall.	#929 ✓
<i>Prunella vulgaris</i> L. var. <i>aleutica</i>	
Fern.	#996 ✓
<i>Euphrasia mollis</i> (Ledeb.) Wettst.	#995 ✓
<i>Galium kamtschaticum</i> Steller	#824 ✓
<i>Erigeron unalaschkensis</i> (DC.) Vierhaip.	#753 ✓
<i>Taraxacum</i> sp.	#393 ✓
<i>Urticum Aleuticum</i>	✓

Einopharum var. *br.* 869

Unicates to be returned

<i>Platanthera ditmariana</i> Kon.	#835
<i>Sagina</i> spp.	#79, 561, 567, 742, 499a
<i>Aphragmus eschscholtzianus</i> Andrz.	#746
<i>Cardamine</i> sp.	#551
<i>Geum calthifolium</i> x <i>rossii</i>	#538
<i>Viola</i> sp.	(Morehouse) #2017
<i>Pyrola minor</i> L. (?)	# 58
<i>Oxyccoccus microcarpus</i> Turcz.	#143
Ericaceous plant	#431
<i>Primula</i> sp.	#559

Set I parts A+B.
For dep. in USNM.

IV-1

Set II

IV-2

Set III - 1

Grasses Selbst - 1

III - 2

Grasses Selbst - 2

III - 3

Grasses for USNM
1+2

III - 4

Dupl. Grass. 1

over

Dupl. Grasses - 2

Künter - Grasses

229 sheets

162 "

108 "

499