

other tuft I took an immature capsule
which is represented within the largest capsule
and is another species with ^{branch} longer leaves twisted
when dry - ~~but not~~ ~~the same~~

91 Bryum bimum

- 85 Barbula latifolia which Austin had labelled Barbula oblongifolia with.

I have examined the following plants which you sent some time ago - and find

- 324 Scorarium fascescens Fern. olim & congestum

- No 38 & 39 Lic: fuscescens - same although it varies in trifling points yet I make nothing else

- Bartramia calcarea - when I first looked into this plant I thought differed much in several points and therefore determined to sketch it - but when drawing the characters found it was not so variant - I have now send sketch for your eye a plant of natural size & from which all are drawn & not bigger see sketch - I got only the most mature capsule but all under 40 & small though could not get a good pistillate - I give all the 6 perichatid leaves which are long ovate long acuminate striate ^{the uppermost row} but see - the others are from below the stems (innervations) downward not very falcate - on the back or other side of slip are 7 leaves lower range of whetm (innervation) and above a male plant with nine perichatid leaves - you note the form the nerve vanishes below the apex

Continuation of Jan 3 1882

and cannot recall any characters cis of any sketch unless before me I cannot recall so I have taken off the balance of my mounted specimen to I had at the last sketch taken off a portion as I could not find an mould plant (I had when I received the packet from Miss Biddlecome) divided the stock and marked one for you and ~~but I~~ ~~can~~ not find I conclude I must have sent it to you -

I find this species is bisexual and some of the leaves are chlorophyllous as seen in the first of I was not aware that it was intermediate between B. Warnum & B. lacustre - I submit three additional leaves for your decision on this point as I do not know as a certainty which of the species which I have sketched from time to time are the ^{I am not upon the names you adopt} Warnum & lacustre as I am ~~not~~ ~~not~~ I cannot make comparative sketches of them

- Bryum Blindii I have placed the leaves of a stem of each on Ontario with Hunt's Southport Eng plant, and have compared them side by side & I have concluded that our plant is B. Blindii - by form of leaf and areolation it is distinct

- Mnium subglobosum I did think our

272 a distinct species from the ^{very} shortness of the name the areolation and the margin of a single row of cells - but now consider it a young form of Mn. subglobosum - an error occurs in Drumst which I have detected - No 253 had the Mn. punctatum major and 254 had the Mn. punctatum I had not looked in 254 and so I sent

Cambridge Jan. 28th 1882

My dear Mr. Esquereux

Yours of 23rd is received the ^{manuscript}
- 73 Bartramia... Vancouver's Hemlock
is an unusual small plant and might have
its name from the reason it is surely a new species
you may name - It will not do to name it for
Prof. Macoun as Austin has named a B. promi-
formis for him and published it - It would lead
to confusion to make B. Macounii, we can com-
pliment him with naming some other genus -
~~the plant was sent to me by Mrs. Day~~

You have described B. Muehlenbergii which
I consider right - Do you introduce B. Marchica?
I sketched ^{several} ~~a~~ Bartramia - if sent to you were any of
them B. Marchica? -

- 59 - (Cobaea or Bartramia) - Royston Park Wren
I have hastily sketched 2 leaves of this - To my ^{own} eye the
articulation is not that of a Bartramia - But as it is to
be omitted nothing more of it -

- Bartramia Mohriana C. Mull. Have you admit-
ted this sp into the manual? I sent a sketch of it some
time ago -

- 44 Physcomitrium pyriforme? Colorado Devonian
The aspect of this seemed different from pyriforme that I
have sketched it - The capsule is unusually long &
neck too, operculum more prominent still it may
be only a var. of pyriforme

I have been going thro Prof. Macoun's last consignment
but not finished I took up ^{all} the Bryonum Minim
and have found the following - that I do not
quite know the species - viz

Cambridge Jan. 18th 1882

My dear Mr. Esquereux,

I have been up to the Herbarium this
morning and I find the following remarks
on a packet thereof - viz: -

- " - Bartramia Marchica (♂ & ♀)
(= B. Muehlenbergii) Ohio
" Sept 1853 - compared the within critically
" with authentic specimens of Bart. Marchica
" (Emcke Schimp) cannot see wherein they differ
" from that species - Male & female in all details
" compared -
" These specimens are doubtless B. Muehlenbergii Schug.
" Within an male plant? Also male plants of pro-
" of B. Marchica - tally B. Muehlenbergii

and two sketches one " Marchica
" B. Marchica = Muehlenbergii A.S.
the other " Bart. Muehlenbergii - Marchica 1856
These two sketches represent leaves -
which appear simply somewhat broader -

In Schwagrichen Sup. 1. Sec. 11. p. 38 is his descrip-
tion of Bartramia Muehlenbergii ^{Simply no rem-}
arks by Sullivan ^{at plant 41 B. Muehlenbergii}
I find in C. Mull. Syst. - a closely similar descrip-
tion ^{only has marked = B. Marchica}

So Sullivan in 1856 has determined B. Muehlenbergii to be identically B. Marchica -

- No 59 Bartramia - Royston Park - We have
no fruiting specimen - noticing the male
plant to be prominent - I sketched the male plant
and all the perigynial leaves, on the back of slip
of my former sketch which surely do not resemble
those of B. Marchica in Bry. Eur. -
So I discard all B. Muehlenbergii considering
them all B. Marchica

- 73 Bartramia macrura Det. macrura
It is a very delicate minute plant and it is
dioecious & in char differs from B. radialis but
more in its other characters. Its stem leaves are
oval (narrower at the base) long acuminate rather
strongly serrate areolation more quadrate
ly, poplite: the perichotial lanceolate quite
long acuminate striate or plicate more sharp-
ly serrate - stem leaves some what broad
ovate & extending to a long slender point.
Branch leaves smaller and some falcate.
Male gemma with large outer perigonial
leaves quite broad at the concave base and
acuminate to the point - nerve not
strong vanishing below the apex ^{the} ~~more~~
inner leaves broadly ovate apex more ob-
tuse nerve shorter.
It is more like B. marchica than B. radialis.
If you think the variations do not amount
to enough to separate it from B. marchica
It might be a variety signifying small
copy remarks by Sullivan on a slip in Herbarium
showing B. radialis to be B. longiseta - - -

— 20. Bartramia radialis Buckley Co Porter - is
right! I eventually found the male organ in
envelope by the side of the female

19th I have been looking over a number of my nar-
tive of foreign Bartramias to day & taking up -

— 50. Bartramia - New England see sketch
It may be B. marchica = B. Muhlenbergii the
perigonial leaves have a distinct form some quite
broad at base - what do you consider? L?

— I have sketched the perigonial leaves of a
B. marchica from a foreign specimen to
show the actual of an authentic B. march-
ica for comparison it is drawn in the high
power - I send it -

— 73 Bartramia - I took this up
again & I have sketched on a small slip
the perigonial leaves of another male
gemma - you still will observe the large
broad concave obtusely acuminate form
nervous vanishing towards the base and
ending quite below the apex of three of the
leaves, and the very broad base and rather
abruptly sharp acuminate point and
nerved strongly of others on the back of the
slip I send the old & the last - three, as
I consider it sp. nov. -

— 54. Webera - not a Bartramia I took
this up again to day - I find the areolation
is that of a Pinguicula (Webera) it is by no
means a Bartramia areolation - I had
two days ago sketched on the back of the old
slip a male plant & the leaves of it but had
not noticed the areolation - As angrate
there are no fruiting plants and nothing
can be made of it - I return it that you may
see it -



James, Thomas Potts. 1882. "James, Thomas P. Jan. 1882 [to C. L. Lesquereux]." *Thomas Potts James letters to Asa Gray*

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