

my Dear Professor Farlow:-

I hope that you will pardon the liberty that I have taken in the matter of ^{amplifying} your list of the Schottian algae, but I am anxious to have the "Plantae Schottianae" agree in style throughout, and have written out your determinations to save you that much time and trouble. The arrangement is that in Engler and Prantl, with which, if you do not agree, please change or throw out my work on it entirely if you prefer, and I will ~~simply~~ publish the list just as you send it.

In making out this matter there have come up the following queries:

Dasya Helenae Farl. in Herb.

Yes I should consider the locality correct, as the plant is firmly attached to the label.

Will you please underscore the initial number on this list of all such species as appear in Harvey's list of Schott's Algae. (I have not his list) and add such species as do not appear in our list at all.

When is Harvey's Herbarium?

Schmitz & Hauptf. in Eug. Prant
~~say the place~~ Centroceras under
Ceramium; and return Jania to
Corallina, do you agree?

The two genera on the last sheet
I cannot place in proper order
in the list

Should you desire any of the
specimens such as Ryliphora
40896 & 40903 back again for
further consideration. will you
please write to my assistant
O. E. Lansing Jr. at the Museum
he will send them in my absence.

If not more work than you desire
to expend upon this mss. would
you please add the more important
synonyms under doubly referred
species. I have not the literature.

Mark up the mss all you
please I shall have it typewritten
~~and~~ before sending it to the printer,
then submit the proofs to you. No
need of returning this until March 1st
With best regards I remain. Sincerely yrs
C. F. Mendenhall

①
CHLOROPHYCEAE

Ulvaceae

1. *Ulva lactuca* (L.) Le Jolis.

Yucatan, Progreso, June 1865 (F.C.M., 40205).

Cladophoraceae

2. *Cladophora fascicularis* (Mert.) Kütz.

Yucatan, Sisal, May 1865 (F.C.M., 40582).

3. *Cladophora lacturoides* Harv.

Yucatan, Sisal, May 1865 (F.C.M., 40253, 40256).

Bryopsidaceae

4. *Bryopsis* sp.

Yucatan, Sisal, May 1865 (F.C.M., 40254)
Specimen poor.

5. *Bryopsis hypnoides* Lamx.

Yucatan, Sisal, May 1865 (F.C.M., 40257)

6. *Bryopsis plumosa* (Woods) C. Ag.

Yucatan, Sisal, May 1865 (F.C.M., 40255).

Caulerpacae

7. *Caulerpa cupressoides* (Vahl) C. Ag.

Yucatan, Celestun, May 1865 (F.C.M., 40252)? The specimens ^{under this number} are undeveloped but probably this species, they represent *Caulerpa simplex* nom. nud.

8. *Caulerpa paspaloides Kurdemannii* K.v.B.

Yucatan, Progreso, April 1865 (F.C.M., 40210, 40209) Sisal, May 1865 (F.C.M., 40208). These should be compared with *C. phylloplastrum* Murray in Trans. Linn. Soc. ser 2. 3: 212 pl. 53, f. 3-6, in which the pinnules are uniseriate, these are biseriata.

Yucatan, Sisal, May 1865 (F.C.M., 40156, 40158); Progreso April 1865 (F.C.M., 40157).

9. *Caulerpa pinnata* Mexicana ^(Sond) K.v.B.

Yucatan, Sisal. (F.C.M., 40251). C. mexicana Sond.

10. *Caulerpa prolifera* (Hooker) Lamx.

Yucatan, Sisal May 1865 (F.C.M., 40207)

11. *Caulerpa Ashmeadii* Harv.

Yucatan, Sisal, May 1865 (F.C.M., 40113).

Codiaceae

12. *Pencilus capitatus* Lamx.

Yucatan, Sisal November 1865 (F.C.M., 40575).

13. *Halimeda Opuntia* (L.) Lamx.

Leorallina Opuntia L. Cuba, Havana
1864 (F.C.M., 41512).

14. *Halimeda Tuna* (Ell. & Sol.) Lamx.

Leorallina Tuna Ell. & Sol. Yucatan,
Sisal May and November 1865 (F.C.M., 40343,
40576, 40577, 40578). Colombia, Cartagena
Nov. 1867 (F.C.M., 40891).

15. *Codium tomentosum* (Wuds.) Stackh.

Spongodium dichotomum Lamx. Yucatan,
Sisal Dec. 1864; Celestun May 1865
(F.C.M., 40114, 40691).

Valoniaceae

16. *Siphonocladus membranaceus* (L. Ag.) Bornet.
Yucatan, Sisal May 1865 (F.C.M., 40583).

Ectocarpaceae

17. *Ectocarpus* sp.

The label on the specimens reads
"Ectocarpus octosporus", and, as Harvey had
the determination of Schott's Colombian
Algae in hand, this may be his naming.
However if described I cannot say where,
and this material is so poor that it is
hardly to be determined except in general.
It seems to be near *E. pusillus* and
E. globifer. Colombia, Cartagena
Nov. 1867 (F.C.M., 41192)

Fucaceae PHAEOPHYCEAE

18. *Sargassum Filipendula* (L. Ag.) J. Ag.
Yucatan, Sisal May 1865 (F.C.M., 40250).

A form (*S. furcatum* Kz.) which is con-
sidered by Agardh to be a form of *S.*
vulgare is in the Schott collection from
the sea beach at the mouth of the Rio
Bravo, Mex. Bound. (F.C.M., 41378).

Dictyotaceae

19. *Padina Durvillaei* Bory.
Yucatan, Celestun May 1865 (F.C.M., 40247).
20. *Padina Pavonia* (L.) Gaill.
Yucatan, Sisal May 1865 (F.C.M., 40248).
Another specimen apparently this species
is from Progreso May 1865 (F.C.M., 40249).
21. *Dictyota cervicornis* Kütz
Yucatan, Sisal May 1865 (F.C.M., 40245,
40246).
22. *Dictyota ciliata* J. Ag.
Yucatan, Progreso April 1865 (F.C.M., 40226).

RHODOPHYCEAEChaetangiaceae

23. *Galaxaura marginata* (Soland.) Lamx.
Brachycladia marginata Soland. Cuba,
Newana 1864 (F.C.M., 41513).
24. *Galaxaura rugosa* (Soland.) Lamx.
Brachycladia rugosa Soland. Cuba,
Newana 1864 (F.C.M., 41514).

Gelidiaceae

25. *Gelidium cornutum caespitosum* J. Ag.
G. pusillum (Stackh.) Le Jolis. Colombia,
Cartagena on rocks at the tide
line, November 1857 (F.C.M., 40895).

Gigartinaceae

26. *Gigartina microphylla* Harv.
California, Santa Barbara (F.C.M., 41196).
27. *Gigartina leptorhyncon* J. Ag.
G. microphylla horrida Farlow. Calif-
ornia October 1854 (F.C.M., 44990).
28. *Gigartina spinosa* Kütz
California, Santa Barbara (F.C.M., 44998,
45000).
29. *Gigartina volans* C. Ag.
California, Santa Barbara (F.C.M., 45022)

30. *Stenogramma interrupta* (b. Ag.) Mont.
California, Santa Barbara (F.C.M., 44999, 44996).
31. *Gymnogongrus?* sp.
California, Santa Barbara, Oct. 1854 (F.C.M., 45021) Specimens sterile and imperfect.
32. *Callophyllis furcata* Farlow.
California, Santa Barbara Oct. 1854 (F.C.M., 45010).
33. *Callophyllis laciniata* (Vonds) Kütz?
So called, it is however doubtful whether the Californian plant is really the same as the European species, it may really be only a variety of *Callophyllis variegata* (Bory) Kütz.
California, Santa Barbara Oct., 1854 (F.C.M., 45017).
34. *Callophyllis rhyncocarpa* Ruper.
California, Santa Barbara Oct. 1854 (F.C.M., 45014).
35. *Callophyllis variegata* (Bory) Kütz.
California, Santa Barbara, Oct. 1854 (F.C.M., 45004, 45008).
36. *Callophyllis* sp.
The following numbers from California, Santa Barbara, are too imperfect for specific identification. (F.C.M., 44994, 45005, 45015, 45016).

Rhodophyllidaceae

37. *Agardhiella tenera* (Ag.) Schmitz
Rhabdonia tenera Ag. Gulf of Mexico, 1853 (F.C.M., 42623); Indianola Texas, growing on *Polysiphonia collabens* (F.C.M., 42602); Sea beach at the mouth of the Rio Bravo del Norte, November 1853 (F.C.M., 42611); A very robust form, sterile but doubtless this species, Gulf of Mexico (F.C.M., 42613); sterile specimens but with

the evident frond of this species at Colombia
Barthagera, Nov. 1857 (F.C.M., 40927).

38. ✓ *Solieria chordalis* (Lag.) J. Ag. non Warw.
Colombia, Barthagera Nov. 1857 (F.C.M.,
40936); Yucatán, Sisal May 1865 (F.C.M.,
40688).
39. ✓ *Eucheuma acanthocladum* (Warw.) J. Ag.
Yucatán, Sisal May 1865 (F.C.M., 40342)
40. *Eucheuma isiforme* (Lag.) J. Ag. ^{40160,}
Yucatán, Progreso Apr 1865 (F.C.M., 40320),
Sisal May (F.C.M., 40318, 40319, 40323, 40324, Nov.
40322, Dec. 40120). The smooth form of the
species, *E. nudum*, Yucatán, Sisal Nov. &
Dec 1864 (F.C.M., 40117, 40118, 40119, 40122).
41. ✓ *Mundemannia setacea* Warw.
Cuba, Havana Nov. 1864 (F.C.M., 41510).

Sphaerococcaceae

42. ✓ *Gracilaria cancellata* J. Ag.
A slender form from Colombia,
Barthagera Nov. 1857 (F.C.M., 40904).
43. *Gracilaria caudata* J. Ag.
Colombia, Barthagera Nov. 1857 (F.C.M.,
40919, 40935, 40920, 40909, 40921, 40912,)
44. ✓ *Gracilaria cervicornis* (Turn.) J. Ag.
Cuba, Havana Nov. 1864 (F.C.M., 41505);
Yucatán, Sisal May 1865 (F.C.M., 40339, 40340),
Celestun May 1865 (F.C.M., 40328); Colombia,
Barthagera Nov. 1857 (F.C.M., 40910); another
specimen from the same locality
(F.C.M., 40933) approaches *G. ferax* J. Ag.;
another is labeled "*Alsidium Schottii*
Warw. n.sp." (F.C.M., 40940) but this is a
palpable error caused by labels being
mixed in Schott's material.
45. *Gracilaria compressa* (Lag.) Grw.
Gulf of Mexico 1853 (F.C.M., 42616);
Colombia, Barthagera Nov. (F.C.M. 40939);
Yucatán May 1865 (F.C.M., 40326, 40327, 40330,
40331, 40333, 40327.), A young and frag =

mentary specimen from Colombia, Carthagena Nov. 1857 (F.C.M., 40947) is also doubtless this species.

46. *Gracillaria confaroides* (L.) Grv.
Texas, Indianola Jan. to Feb. 1853 (F.C.M., 42609, 42610, 42612, 42614, 42615); Colombia, Carthagena Nov. 1857 (F.C.M., 40934); Yucatan, Sisal Dec. 1864 (F.C.M., 40121).
47. *Gracillaria cornea* J. Ag.
Yucatan, Sisal Nov. 1864 (F.C.M., 40124); Colombia, Carthagena Nov. 1857-8 (F.C.M., 40902, 40905, 40907, 40914, 40916, 40923, 40924), I doubtfully place F.C.M., 40901 from the same locality under this species; there is a doubt as to whether the plant was originally terete or flat.
48. *Gracillaria dentata* J. Ag.
Cuba, Havana Nov. 1864 (F.C.M., 41508)
49. *Gracillaria Domingensis* Sond?
Colombia, Carthagena Nov. 1857 (F.C.M., 40911, 40912) These specimens correspond to the figure of this species in Kützting Tab. Phyc. I am inclined to believe however, that they are not specifically distinct from *G. cervicornis* (Turn.) J. Ag.
50. *Gracillaria multipartita* (Lehm.) J. Ag.
California, Santa Barbara (F.C.M., 44991); Cuba, Havana Nov. 1864 (F.C.M., 41506, 41507); Colombia, Carthagena Nov. 1857 (F.C.M., 40917, 40918, 40949). Yucatan, Sisal May 1865 (F.C.M., 40325).
51. — var *polycarpa* (Grv.) J. Ag.
Colombia, Carthagena Nov. 1858 (F.C.M., 40913, 40915, II, 40922).
52. *Gracillaria* sp.
Growing on *Cryptonemia luxurians* on coral at Carthagena, Colombia Nov. 1857 (F.C.M., 40906). F.C.M., 40938 from this station is too poor in material for specific determination. Texas, Indianola 1853 (F.C.M., 42617) not specific.

Yucatan, Celestun (F.C.M., 40233), Progreso (F.C.M., 40329) & Sisal (F.C.M., 40344) are too fragmentary for identification as to species.

53. *Hyponia cornuta* J. Ag.
Colombia, Cartagena Nov. 1857
(F.C.M., 40931, and not doubt 40930).
54. *Hyponia divaricata* (Turn.) Grav.
California, Santa Barbara Oct. 1854
(F.C.M., 44997).
55. *Hyponia musciformis* (Kütz.) Lamx.
Colombia, Cartagena (F.C.M., 40929, 40951); Texas, Indianola Feb. 1854 (F.C.M. 42624); Yucatan, Progreso Apr. 1865 (F.C.M. ⁴⁰²¹⁴ 40335); Sisal, May 1865 (F.C.M., 40125, 40126, 40336, 40343).
56. *Hyponia pinnosa* J. Ag.
Colombia, Cartagena Nov. 1857
(F.C.M., 40937).
57. *Hyponia spinella* J. Ag. var.
Colombia, Cartagena Nov. 1857
(F.C.M., 40932)
- (Do you wish to describe this?)
58. *Hyponia* sp.
California, Santa Barbara Oct 1854
fragments only (F.C.M., 45001, 45002); also
Colombia, Cartagena (F.C.M., 40942, 40943).

Rhodymeniaceae

59. *Rhodymenia corallina* (Bory.) J. Ag.
California, Santa Barbara Oct. 1854
(F.C.M., 45009).
60. *Rhodymenia* sp.
Colombia, Cartagena Nov. 1857
A sterile form apparently near *R. Palmata* (Espr.) Grav. (F.C.M., 40893, 40593).
61. *Lomentaria ovalis* (Kütz.) Endl.
Colombia, Cartagena Nov. 1857
(F.C.M., 40952).

62. — var. *conchieri* Harw.
California, Santa Barbara Oct.
1854. (F.C.M., 45003)

Delesseriaceae

63. *Nitophyllum Durvillaei* (Bory.) Grev.
California, Santa Barbara, Oct. 1854
(F.C.M., 45013)
64. *Nitophyllum lacratum* (Gmel.) Grev?
Colombia, Cartagena (F.C.M., 40941)
Fragmentary and doubtful.
65. *Nitophyllum Ruprechtianum* J. Ag.
California, Santa Barbara Oct.
1854 (F.C.M., 45006, 45011, 45026).
66. *Nitophyllum violaceum* J. Ag.
California, Santa Barbara Oct.
1854 (F.C.M., 45006, 45007, 45018), and on
Lomentaria walis conchieri from same
locality (F.C.M., 45003).
67. *Nitophyllum* sp.
A specifically indeterminate
fragment from California, Santa
Barbara Oct 1854 (F.C.M., 45012).
68. *Neuroglossum Andersonianum* J. Ag.
California, Santa Barbara Oct. 1854
(F.C.M., 44989, 41528).

Rhodomelaceae

69. *Laurencia cervicornis* Harw.
Cuba, Havana Nov 1864 (F.C.M., 41511)
70. *Laurencia obtusa* (Kütz.) Lamx.
Yucatan, Progreso, Apr. 1865 (F.C.M.,
40123, ⁴⁰²¹⁴40227, 40228, 40229, 40230, 40231,
40689); a specimen from Yucatan,
Sisal May 1865 F.C.M., 40232 is of a
slender form approaching *L. implicata*
J. Ag.
71. *Laurencia paniculata* (G. Ag.) Kütz.
Cuba, Havana Nov 1864 (F.C.M., 41509)
Colombia, Cartagena (F.C.M., 40908), a
fragment doubtless of this species
from Mex. Boundary at mouth of

Rio Bravo del Norte Nov. 1853 (F.C.M., 42622).

72. *Laurencia papillosa* (Forsk.) Grv.
Colombia, Cartagena Nov. 1858
(F.C.M., 40899).
73. *Laurencia tuberculosa* J. Ag.
Colombia, Cartagena Nov. 1858
(F.C.M., 40897, 40898).
74. *Laurencia* sp.
Colombia, Cartagena. a small
fragment (F.C.M., 40929).
75. *Chondria atropurpurea* Harv.
Yucatan, Sisal May 1865 (F.C.M., 40926)
Colombia, Cartagena (F.C.M., 40950).
76. *Chondria nidifica* Harv.
California, Santa Barbara, Oct.
1857 (F.C.M., 40019).
77. *Chondria tenuissima* (Gard. & Nordw.) C. Ag.
Yucatan, Progreso Apr 1864 (F.C.M.,
40212).
78. *Acanthophora Antillarum* Mont?
This form described by Montagne
in Kütz. Tab. Phyc., is probably not
different from the next species
Colombia, beach near Boca Grande,
Cartagena, Nov. 1857 (F.C.M., 40892).
79. *Acanthophora Thierli* Lamx.
Yucatan, Sisal May 1865 (F.C.M.,
40304).
80. *Digenea simplex* (Kütz.) C. Ag.
Texas, Indianola Jan. 1853 (F.C.M.,
42600, 42601) Yucatan, Celestun May 1865
(F.C.M., 40260).
81. *Polysiphonia Baillyi* (Harv.) J. Ag.
California, Santa Barbara, Oct.
1854 (F.C.M., 44995, 45024).
82. *Polysiphonia collabens* (Ag.) Kütz.
Texas, Indianola, (F.C.M., 42602). See
note under *Agardhiella tenera*.

83. *Polydipnomia ferulacea* Luhr.
Texas, Indianola 1855 (F.C.M., 42607).
84. *Polydipnomia hirta* Ag.
Texas, Indianola 1853 (F.C.M., ~~41192~~,
42606). Colombia, Cartagena (F.C.M., 41193)
85. *Polydipnomia viridata* (Lightf.) Grw.
California, Santa Barbara Cal.
1854 (F.C.M., 44993).
86. *Bryothamnion Seaforthii* (Turn.) Kütz.
Colombia, Cartagena Nov. 1857 (F.C.M.,
40944). Cuba, Havana, Nov. 1864 (F.C.M.,
41503). Yucatan, Progreso April 1865
(F.C.M., 40301, 40302, 40303), Sisal May 1865
(F.C.M., 40295).
87. *Bryothamnion triangulare* (Sm.) Kütz.
Colombia, Cartagena Nov. 1857 (F.C.M.,
40945, 40946). Cuba, Havana Nov. 1864 (F.C.M.,
41504). Yucatan, Progreso Apr 1865 (F.C.M.,
40159), Celestun, May 1865 (F.C.M., 40687, 40298,
40299, 40300 the last three numbers are
of a slender form approaching *B.*
Seaforthii).
88. *Rytiphloea*
Colombia, Cartagena Nov. 1857 (F.C.M.,
40896, 40903).

(Space for your decision on this)

89. *Vidalia obtusiloba* (b. Ag.) J. Ag.
Rhytiphloea obtusiloba b. Ag. Colombia
 Cartagena Nov. 1857 (F.C.M., 40900).
90. *Dasya elegans* (Mart.) C. Ag.
 Texas, Indianola Jan'y. 1853 (F.C.M.,
 42608).
91. *Dasya Hollenae* Farlow
 California, Harbour of San Diego
 Oct. 1854 (F.C.M., 45025).
92. *Dasya ramosissima* Harw.
 Yucatan, Progreso Apr. 1865 (F.C.M.,
 40580) A form of the species.

Ceramiales

93. *Spyridia aculeata* J. Ag.
 Yucatan, Sisal May 1865 (F.C.M., 40297).
 Celestun May 1865 (F.C.M., 40213).
94. *Spyridia filamentosa* (Kütz.) Harw.
 California, Santa Barbara (F.C.M.,
 44998 on *Sigartina spinosa*). Colombia
 Cartagena Nov. 1857 (F.C.M., 40926). Yucatan,
 Progreso May 1865 (F.C.M., 40599).
95. *Spyridia* sp.
 Mex, Boundary on sea beach at
 mouth of the Rio Bravo del Norte
 Nov. 1853. So covered with parasites
 as to be indeterminate (F.C.M., 42621).
96. *Ceramium nitens* C. Ag.
 Colombia, Cartagena on shells
 (F.C.M., 40894).
97. *Ceramium subtile* J. Ag?
 Yucatan, Progreso May 1865 (F.C.M.,
 40211, 40214, 40215, 40216, 40221, 40222,
 40223, 40224, 40225) Sisal May 1865 (F.C.M.,
 40218, 40220). All of these specimens
 are of a form approaching too near
C. fastigiatum Harw.
98. *Ceramium tenuissimum* Lyngb.
 Texas, Indianola Jan'y-Feb'y 1853
 (F.C.M., 42603, 42605, 42618, 42619, 42620). Yucatan,
 Sisal May 1865 (F.C.M., 40343).

99. *Ceramium clavulatum* (C. Ag.).
Texas, Indianola (F.C.M., 42604). California,
Santa Barbara Oct 1854 (F.C.M., 44994).
Colombia, Cartagena Nov. 1857 (F.C.M., 41191).
Yucatan, Progreso, Apr. 1865 (F.C.M., 40217).
100. *Microcladia californica* Parl.
California, Santa Barbara (F.C.M., 41195).
101. *Microcladia Coulteri* Harv.
California, Santa Barbara Oct.
1854 (F.C.M., 44999).

Grateloupia

102. *Xoalymenia florisia* (Clem) C. Ag.
Colombia, Cartagena Nov. 1857
(F.C.M., 40928).
103. *Cryptonemia crenulata* J. Ag.
Colombia, Cartagena Nov. 1857 (F.C.M.,
40925, 40948).
104. *Cryptonemia luxurians* (Mont) J. Ag.
Colombia, Cartagena on corals
Nov. 1857 (F.C.M., 40906)

Corallinaceae

105. *Amphiroa Orbigniana* Dec?
California, Santa Barbara (F.C.M.,
45023) Specimen much broken.
106. *Corallina chilensis* Dec. in Harv. Nov. Austr.
California, Santa Barbara (F.C.M., 45020)
107. *Corallina leuvenensis* (Mont)
Jania leuvenensis Mont. Colombia,
Cartagena Nov. 1857 (F.C.M., 40925). Cuba,
Havana Nov. 1864 (F.C.M., 41503). Yucatan,
Sisal May 1864 (F.C.M. 40305).
108. *Corallina rubens* L.
Jania rubens Lamour. Yucatan, Progreso,
Celestun and Sisal Apr-May (F.C.M., 40306,
40260, 40305).

Inserenda

109? *Haliseris delicatula* (Ramm.) Jdg
Yucatán, Sisal Dec 1864 (F.C.M., 40584).

110? *Ascothamcon intricatum* Kütz
Yucatán, Celestun May 1865 (F.C.M.,
40681).



Schott, Arthur and Millspaugh, Charles Frederick. 1886. "[List forwarded to Farlow by Millspaugh and letter]." *William Gilson Farlow miscellaneous specimen lists : collectors S*

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