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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.

Sierra Leone

Explanation of plates

Fig 1.	<i>Helix oblongum</i> v. <i>cyprinoides</i>	7076	
2	" <i>disruptus</i> v. <i>hamulosus</i>	7044	
3	" " v. <i>rhomboides</i>	7102	
14	<i>Closterium lobellula</i> v. <i>lobellula</i>	7130	a/ a/
5	" v. <i>intermedium</i>		a/ o/
6	" <i>infractum</i> v. <i>reticulatum</i> Gell	7074	
7	" <i>perchlamata</i>	7045	
8	" <i>Schrambergii</i> f.	7171	
9	" sp. -	7129	
10	" <i>diavae</i> - <i>minor</i>	7048	
11	" v. <i>perchlamata</i>	7078	
12	<i>Leucostomum acutum</i>	7135	
13	" <i>caldensis</i>	7072	a/ d/
		Scott fig (A) (B)	
14	" <i>subconchata</i> - <i>ditum</i>	7136	
15	" <i>Schrambergii</i>	7121	
16	<i>Erastum validum</i>	x x x	a/ d/ Scott (C)
17	" " f. <i>truncatella</i>	7106	
18	" " <i>binale</i> f.	7101 a	
19	" " " <i>Gell</i>	7101 b	
20	" " " f.	7050	
21	" <i>subhercynica</i> Gyll	7056	
22	" " " <i>serotina</i>	Scott (B)	
23	" " " "	7103	
24	" " <i>evolutum</i> f.	7047	
25	" <i>arsuta</i> v. <i>didylliformis</i>	7051	
26	" <i>nonocyptha</i> v. <i>germanicum</i>	x	
27	" <i>subconchata</i> f.	x x	
28	" <i>perchlamata</i> f. <i>perchlamata</i> v. <i>lobellula</i>	Scott (E), 7057, 7114	

- 27 *Eumeth?* (Lomas?) ~ (xxx)
- 28 } *Utricularia* *umbellulata*, var *amirandata* n var 7124, Scott (E)
29 }
- 31 " *radicans* f 7115 b
- 32 " *americana* f 7042 $\frac{a}{b}$
- 33-42 *Cosmannia* *uruleporeum* Lohk var *uruleporeum* n var 7135 (tutti)
- 43 " *decoratum* W, W (of *Centronia*?) 7125 Scott (S)
- 44 " *bisnum* Nott Scott (A)
- 45 *Pemium* sp 7046 b
- 46 *Chama* (*Chama*) *umbellata* f. 7046 a
- 47 " " *subglobosa* 7126
- 48 " " *caucubita* f. 7079
- 49 " " *wollai* (Gbl) Tait 7118
- 50 " " *succulenta* f. 249 7061
- 51 " *Zonatum* - *subcylindricum* / *cylindricum* Scott, Gbl Scott (F)
- 52 " *trituberculatum* 7090
- 53 " " *tridentatum* Gbl (AA)
- 54 " *subquadrans* 7122 b
- 55 " (*Pemium*?) sp 7102
- 56 " *sigma* 249? 7113 b
- 57 " " f. 7113 a
- 58 " *trachyderma* W, W 7110, Scott (J)
- 59 " *Zonarium* W, W n. *latius* Pennel Scott (K)
- 60 " sp. - 7052
- 61 " *polymorphum* 7043
- 62 *Xantho* *uniformis* (W, W) Gbl & Scott n. comb. 7105 6979
- 63 *Stam* *dejectum* f? 7085
- 64 " *margantacum* n. *elongatum* n var? 7084
- 65 " *pinnatum* n *hydra* Niles 7137
- 66 " *arctus* - *oppositum* f *inflatum* Scott, Pennel 7119 Scott (L)

- 67 *Stecanota, triundulata* Koye v. ^{Sacra-Corona / 4th & 5th} ~~habituosa~~ f. v. 7104 ^{a/b}
- 68 " *leptopus* (Jacq.) 7107 ---
- 69 " *longibrachiate* v. *kenapri* 7109
- 70 " *fortis* *ulata* sp. *glabris* Sat (M) 7102, 7112
- 71 " *contectum* f. *Santa* (N)
- 72 " *gambroglus* 7092, 7117
- 73 " *disticta* var. (xxx)
- 74 " *mildemani* v. *quadrispinosa* v. n. } 7116
- 75 *Sesuvium graniticum* 2119 --- (xxx) } Sat (O)

- 76 *Octagonia mexicana* (1)
- 77 " *pinguecula* v. *Nardus* det. f. *pauciflorum* (2)
- 78 " *puberulum* (3)
- 79 " *maxima* (4)
- 80 " *acropitum* (5)
- 81 " *heselougii* (6)
- 82 *Bulbocaste ampulosa* (7)
- 83 " *horrida* (8)
- 84 " *crusculata* ? (9)
- 85 " n. sp. ? (10)

Photomicrographs

Pleuronotus calderae f.

Cosmarium

Eriostroma subrotundum var. *caribbeum*

" *humboldtii*

" *subrotundum*

Hypocistis subrotundum var.

" *americana*

" *humboldtii* var.

Dem. aplozom spp.

Sierra Leone.

Explanation of plates.

- v Fig. 1. *Netrium oblongum* var. *cylindricum* 7076
2 " *digitus* v. *lamellosum* 7044
3 " " v. *rhomboideum* 7127
4 *Closterium libellula* v. *libellula* 7130 e, a,
5 " " v. *intermedium* 7130 d, c,
6 " *infractum* v. *rotundatum* 7074
7 " *pseudolunula* 7045
8 " *Ehrenbergii* f. 7071
9 " sp. 7129
10 " *dianae* v. *minus* 7048
11 " *dianae* v. *pseudodianae* 7078
12 *Pleurotaenium ovatum* 7128
13 " *caldense* 7077 ~~v. d.~~, Scott A, B/
14 " *subcoronulatum* v. *detum* 7136
15 " *ehrenbergii* 7121
16 *Euastrum validum* ~~xxxx~~, Scott C/
17 " " f. *Bourrelly* 7106
18 " *binale* f. 7101
19 " *binale* f. *gblad* 7101 b.
20 " *binale* f. 7051
21 " *subhexalobum* zyg. 7056
22 " " v. *serobiculatum* Scott D/
23 " " " 7103
24 " *evolutum* f. 7047
25 " *ansatum* v. *dideltiforme* 7051
26 " *monocylum* v. *germanicum* x
27 " *bidentatum* f. xx
28 " *humbertii* Bourrelly & Leboime 7057, 7114, Scott E/
29 *Euastrum* ? (*Cosmarium* ?) sp. xxx
30 *Micrasterias mahabuleshwariensis* v. *semireductum* v. nov. 7124, Scott F/
31 " *radians* f. 7115 b
32 " *americana* f. 7042 a/b
33 42 *Cosmarium ceratophorum* Lütken. v. *sierra-leoneum* n. v. 7135 /omnes!/
34 " *decoratum* W & W. (Cf. *C. controversum*!) 7125, Scott G/
35 " *binum* Nordst. Scott H/
36 *Penium* sp. 7046b
37 *Cosmarium* (*Actinotaenium*) *cucurbita* f. 7046a
38 " *subglobosum* 7126
39 " *cucurbita* f. 7079
40 " *wollei* Gbl. 7118
41 " *cucurbita* zyg. 7061
42 " *zonatum* v. *subcirculare* f. *cylindricum* Scott & Grönb. Scott I/
43 " *trilobulatum* 7080
44 " *indentatum* Grönb. AA/
45 " *subquadrans* 7122b
46 *Penium* sp (?) 7102
47 *Cosmarium exiguum* zyg. (?) 7113b
48 " " f. 7113a
49 " *trachydermum* W & W. 7110, Scott J/
50 " *zonarium* W & W. v. *latius* Bernard Scott K/
51 " sp. 7052
52 " *polymorphum* 7043
53 *Xanthidium urniforme* (W. & W.) Gbl. & Scott, nov. comb. 7105, 6979
54 *Staurastrum dejectum* f. (?) 7085
55 " *margaritaceum* v. *elongatum* n. var. 7084
56 " *pinnatum* v. *hydra* Krieg. 7137
57 " *cerastes* v. *coronatum* f. *inflatum* Scott & Presc. 7119, Scott L/
58

- ✓ 79 Staurastr. triundulatum Forge sierra-leonense Grönbl. & Scott 7104 a/b
 - ✓ 80 " leptopus (fasc. 4) 7107
 - ✓ 81 " longebrachiatum v. kriegeri 7109
 - ✓ 82 " forficulatum f. glabrius Scott M/, 7062, 7112
 - ✓ 83 " contectum f. Scott N/
 - ✓ 84 " quadrangulare 7082, 7117
 - ✓ 85 " dickiei var. xxx
 - ✓ 86 " wildemanni v. quadrispiniferum n.v. 7116, Scott O/
 - ✓ 87 Desmidium graciliceps zyg. xxxx
-
- 88 Cedogonium mexicanum 1
 - 89 " pringsheimii β nordstedtii f. pachydermatosporum 2
 - 90 " pusillum 3
 - 91 " maximum 4
 - 92 " acrospirum 5
 - 93 " areschoughii 6
 - 94 Bulbochaete angulosa 7
 - 83 " horrida 8
 - 84 " crassiuscula 9
 - 85 " n.sp.? 10

.....

Photomicrographs.

- 1 Pleurotaen. caldense f.
- 2. Cosmarium
- 3 Euastrum subhexalobum v. scrobiculatum
- 4 " humbertii
- 5 Micrasterias mahabuleshwariensis var.
- 6 " americana
- 7 Xanthidium raciborskii
- 8 Desmidium aptogonum zyg.

Rolf Grönblød

København

Centralgaden 86

Prov tagna av J.V.Huhta i Sierra Leone, 1960.

Prov Nr 6.

- *Cylindrocystis brebissonii*
- *Netrium digitus*
- *oblongum* var. *cylindricum*
- *Closterium cynthia*
 - *dianae*
 - *moniliferum*
 - *navicula*
 - *parvulum*
 - *setaceum*
- *Pleurotaenium caldense* (?) var. *africanum* n. var.
- *Euastrum denticulatum*
- *Cosmarium binum*
 - *bipunctatum*
 - *hammeri* Grönblød f. Grönblød (1948) fig 2-3.
 - *quadrum*
 - sp.
- *Actinotaenium wollei*
- *Arthrodesmus phimus*
- *Staurastrum leptodermum*
 - *micron*
 - *quadrangulare* f. fac. 3

- *teliferum*
- *tetracerum*
- sp. (ad *hexacerum*)
- *dilatatum*

Sierra Leone 1969

- No 18) *Stilidium* var *shombardii* 7127
~~*Stilidium* *marginatum*~~
~~*Stilidium* *crassifolium* & var *mitis* *shombardii*~~
 " *venosum*
 " *bianae*
 " *shombardii* var *shombardii* c. icon 7134
 " *lyellii*
 " *junceum* sp.

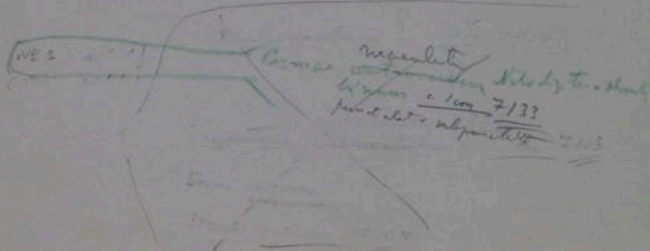
Platanus *ovata* c. icon 7128

Quercus *dent. calathina*
cinerea c. icon 7121

~~*Cosmas* *hololepis*~~
~~*Cosmas* *hirsuta*~~
~~*Cosmas* *puberula* & *subpuberula*~~ 7125 >? = *C. decoratum*!
~~*Cosmas* *conspersa* & *latum*~~
~~*Cosmas* *obscurellum*~~
~~*Cosmas* *laeve*~~

c. icon 7102
7126

Samolus *disputatum* & *viridense*
 " *dilatatum* & *hirsutum*



copy

Desmids from Sierra Leone, West Afráca
collected by Mag.phil. Venman (Viriky.Finland.)

Sample Nr.1.

- | | |
|-------------------------------------------------------|--------------------------|
| - Closterium disnae | Bulbochaete rhadinospóra |
| - infractum 7054 | Caelastrum microporum |
| - nematodes | Cedogonium sexangulare |
| - parvulum | spirale |
| - Pleurotaenium ehrenbergii f. 7121 | Pediastrum tetras |
| - subcoronulatum var. subcoronulatum | Spirogyra sp. |
| var. detum 7136 | Scehedesmus bijuga |
| - Euastrum binale 7051 | brasiliensis |
| - crassangulatum 7114 | Zygnema sp. |
| - luetkemuelléri f. 7106 | (Cyanophyceae |
| - subhexalobum f. 7103 | (Bacillariaceae |
| - validum | |
| - Micrasterias radians 7115 | |
| - tropica f. 7124 / or M.mahabuleshwariensis var.? | |
| - truncata | |
| Cosmarium amoenum | |
| bacillare 7052 | |
| bioculatum ? 7122 | |
| ceratophorum var.africanum Bourrelly 7108,7135 | |
| contractum 7138 | |
| cucurbita | |
| dimazum var. | |
| exiguum f. 7113 | |
| orthostichum var.pumilum | |
| pseudopyramidatum 7139 | |
| wollei ("Actinotaenium) 7118 | |
| zonatum var. 7111 | |
| sp 7110 | |
| sp 7050 | |
| Xanthidium raciborskii 7105 | |
| Arthrodesmus octocornis | |
| Staurostrum cerastes var. apiculatum Krieg. 7119,7132 | |
| forficulatum 7112 | |
| pilosum (s.Litkem.-Heimans) | |
| pinnatum var.hydra Krieg. 7137 | |
| quadrangulare 7117 | |
| setigerum | |
| tetracerum 7140 | |
| sp 7104 | |
| sp 7107 | |
| sp 7109 | |
| sp 7119 | |
| wildemani var. horizontale f. 7116 (Scott & Prescott) | |
| Hyalotheca dissiliens var.tatricum 7120 | |
| Sphaerosozma excavatum | |
| Desmidium aptogonium 7131 | |
| (coarctatum v.cambricum? or | |
| (quadratum, or aequale?) | |
| No 22 | |
| -Netrium digitus var. rhomboideum | |
| Cosmarium binum 7133 | |
| decoratum | |
| punctulatum var.subpunctulatum | |

Sierra Leone coll. Venman No 1 continued)

- (Staurastrum) quadrangulare
 - setigerum
 - wildemani var. horizontale f.
 - sp. -
- Hyalotheca dissiliens var. tetricum
- Groenbladia indica (? ad Hyalotheca?)
- Sphaeroszoma excavatum
 - granulatum
- Desmidiium aptogonum
 - coarctatum var. cambricum
 - (or D. quadratum or D. aequale?)

No 2. (coll. Venman)

- Nectrium digitus var. rhomboideum
- Euastrum inerme
- Cosmarium binum
 - decoratum
 - punctulatum var. subpunctulatum

No 18. (coll. Venman)

- Roya pseudoclosterium
- Nectrium digitus var. digitus
 - var. lamellosum
 - var. rhomboideum
- Penium margaritaceum
 - polymorphum
 - sp.- (ad phymatosporum?)
- Closterium baillyanum
 - cynthia f.
 - dianae
 - dianae var. minus
 - ehrenbergii var. malinvernianum f.
 - libellula var. libellula
 - var. intermedium
 - navicula
 - parvulum var. angustum
 - pseudolunula
 - venus
- Pleurotaenium ovatum
- Euastrum ansatum var. dideltiforme
 - binale
 - denticulatum
 - evolutum (?)
 - pulchellum var. retusum
- Micrasterias americana
- Cosmarium binum
 - boeckii
 - conspersum var. latum
 - decoratum (?= C. controversum W. & W.)
 - laeve var. laeve
 - var. septentrionale
 - obsoletum
 - polymorphum (?)
 - punctulatum var. subpunctulatum
 - sp. - (Actinotaenium -)
 - sp.- (subglobosum?)
 - sp. -
- Staurastrum dilatatum var. hibernicum
 - disputatum var. sinense

dupl

No 1. Closteriumdianae, ⁷⁰⁵⁴ infractum, [nematodes, [parvulum

- Pleurotaenium Ehrenbergii f. 7121
 - subcoronulatum var subcoronulatum
 - subcoronulatum var. detum 7136
- Euastrum crassangulatum 7114 *Abundant 7051*
 - luetkemuelleri f. 7106
 - subhealobum f. 7103
 - validum
- Micrasterias radians ⁷¹¹⁵
 - tropica (?) 7124 / or M.mahabuleshwarensis var.?)
 - truncata *has more 7052*
- Cosmarium amoenum ^{has more 7052}
 - contractum ⁷¹³⁶ ceratophorum var. africanum Bourrelly 7108 *7131*
 - cucurbita
 - dimazum var. *exiguum* f. 7113
 - orthostichum var. pumilum
 - pseudopyramidatum ⁷¹³⁹
 - wollei (Actinotaenium) 7118
 - zonatum var. 7111 *sp. 7110 sp. 7050*
- Xanthidium raciborskii 7105 *E. thoburnii octocornis*
- Staurastrum cerastes var. apiculatum Krieg. 7119, 7132
 - forficulatum 7112
 - pilosum s. Lütken.-Heimans
 - pinnatum var. hydra Krieg. ⁷¹³²
 - setigerum *quadrangulare* 7117
 - tetracerum
 - sp 7104
 - sp 7107
 - sp 7109
 - sp 7119 *sp. 7118 var. horizontale Se. & Griseb. 7116*

- Hyalotheca dissiliens var. taticum ⁷¹²⁰
- Sphaerocosma excavatum
- Desmidium aptogonum ⁷¹³¹

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- (quadratum (or D.aequale?) ⁷¹³²
 - (*cravatatum & umbosum of Presl & Magnate 1935-22.11.16*)
 - Bulbochaete rhadinospora
 - Caelastrum microporum
 - Oedogonium sexangulare spirale
 - Pediastrum tetras
 - Spirogyra sp.
 - Zygnema sp. *Sanctimonium hirsutum*
 - (Cyanophyceae -) *the flag*

- No 2. Netrium digitus var. rhomboideum
- Cosmarium binum 7133
 - maculatum *→ decoratum*
 - punctulatum var. subpunctulatum

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No 18.

- *Roya pseudoclosterium* 7049 *var. digitatus*
- *Netrium digitus* var. lamellosum 7044
var. rhomboideum 7127
- *Penium margaritaceum* 7053
- *Closterium Cynthia* f. 7129 *polymorphum*
ex. (ad phycosporam?)
 - *dianae* *(ad phycosporam?)*
 - *ehrenbergii* var. malinvernianum 7134
 - *libellula* 7130a
var. intermedium 7130c
 - *navicula* 7130b
 - *pseudolunula* 7045 *perovkae + angustum*
 - *venus* 7048
- *Fleurotaenium ovatum* 7128
- *Euastrum ansatum* var. dideltiforme 7051
 - binale 7101, (7123)
 - denticulatum
 - evolutum (?) 7047 *multichellum v. retusum*
- *Micrasterias americana* 7042
- *Cosmarium binum*
 - *boeckii*
 - *conspersum* var. latum
 - *decoratum* 7125 / long. 68 u/ =?"C. controversum ~~XXXXXX~~ W. & W."
 - *laeve*
 - *obsoletum* *interstantionale*
 - *polymorphum* ? 7043
 - *punctulatum* var. subpunctulatum
 - ("Actonotaenium"
 - sp 7102
 - sp 7126 (subglobosum?)
 - sp 7046a
 - sp 7046b
- *Staurastrum dilatatum* var. hibernicum
- *disputatum* var. sinense.

No 18.

- *Roya pseudoclosterium* 7049
- *Netrium digitus* var. *lamellosum* 7044
 - var. *rhomboideum* 7127
- *Penium margaritaceum* 7053
- *Closterium cynthia* f. 7129
 - *dianae*
 - *ehrenbergii* var. *malinvernianum* 7134
 - *libellula* 7130a
 - var. *intermedium* 7130c
 - *navicula* 7130b
 - *pseudolunula* 7045
 - *venus* 7048
- *Pleurotaenium ovatum* 7128
- *Euastrum ansatum* var. *dideltiforme* 7051
 - *binale* 7101, (7123?)
 - *denticulatum*
 - *evolutum* (?) 7047
- *Micrasterias americana* 7042
- *Cosmarium binum*
 - *boeckii*
 - *consersum* var. *latum*
 - *decoratum* 7125 /long. 68 u/ = "*C. controversum*?"
 - *laeve*
 - *obsoletum*
 - *polymorphum* ? 7043
 - *punctulatum* var. *subpunctulatum*
 - ("*Actinotaenium*" sp 7102
 - sp 7126 (*subglobosum*?)
 - sp 7046a
 - sp 7046b
- *Staurastrum dilatatum* var. *hibernicum*
 - *disputatum* var. *sinense*.

Desmids from Sierra Leone, West Africa
collected by Mag.phil. *Elta* Venman (Virkby, Finland.)

angulosa West. & Schmidt
horrida C. von

- Sample Nr. 1.
- *Closterium dianae*
 - *infractum* 7054
 - *nematodes*
 - *parvulum*
 - *Pleurotaenium ehrenbergii* f. 7121
 - *subcoronulatum* var. *subcoronulatum*
 - var. *detum* 7136
 - *Euastrum binale* 7051
 - *crassangulatum* 7114
 - *luetkemuelleri* f. 7106
 - *subhexalobum* f. 7103 *monoph. & parvum*
 - *validum*
 - *Micrasterias radians* 7115
 - *tropica* f. 7124 / or *M. mahabuleshwariensis* var.?
 - *truncata*
 - *Cosmarium amoenum*
 - *bacillare* 7052
 - *biloculatum* ? 7122
 - *ceratophorum* var. *africanum* Bourrelly 7108, 7135
 - *contractum* 7138
 - *cucurbita*
 - *dimazum* var.
 - *exiguum* f. 7113
 - *orthostichum* var. *pumilum*
 - *pseudopyramidatum* 7139
 - *wollei* ("Actinotaenium") 7118
 - *zonatum* var. 7111
 - sp 7110
 - sp 7050
 - *Xanthidium raciborskii* 7105
 - *Arthrodesmus octocornis*
 - *Staurastrum cerastes* var. *apiculatum* Krieg. 7119, 7132
 - *forficulatum* 7112 *71062*
 - *pilosum* (s. Lütkem.-Heimans)
 - *pinnatum* var. *hydra* Krieg. 7137
 - *quadrangulare* 7117
 - *setigerum*
 - *tetracerum* 7140
 - sp 7104
 - sp 7107
 - sp 7109
 - sp 7119
 - *wildemani* var. *horizontale* f. 7116 (Scott & Prescott.)
 - *Hyalotheca dissiliens* var. *tatricum* 7120
 - *Sphaeroszoma excavatum* *Sph. granulatum* *Cyathella indica* C. von 7063
 - Desmidium aptogonum* 7131
 - (*coarctatum* v. *cambricum*? or
 - (*quadratum*, or *aequale*?)
 - No 2.
 - *Netrium digitus* var. *rhomboideum* *Netrium inornatum*
 - *Cosmarium binum* 7133
 - *decoratum*
 - *punctulatum* var. *subpunctulatum*

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- *Dasydrachma* ⁷⁰⁴⁹
 - *Netrium digitus* var. *rhomboideum* 7127 ^{var. *canaliculosum* 7044}
 - *Penium margaritaceum* ⁷⁰⁵³
 - *Closterium cynthia* f. (?) 7129
 - *dianae*
 - *ehrenbergii* var. *malinvernianum* 7134
 - *dianae*
 - *libellula* 7130a
 - "-" var. *intermedium* 7130 c)
 - *navicula* 7130 d)
Plœurotaenium ovatum 7128 ^{*procuticulata* 7045}
Euastrum binale 7101 (7123?) ^{*ovatum* var. *dilatatum* 7057}
 - *denticulatum* ^{*libella americana* f. 7042}
 - *Cosmarium binum*
 - *boeckii*
 - *conspersum* var. *latum*
 - *controversum* Lüt. = *C. decoratum* 7125 long. 68 μ
 - *laeve*
 - *obsoletum* ^{*puberulum* ? 7043}
 - *punctulatum* var. *subpunctulatum*
 - (*Actinotaenium*) sp 7102
 sp 7126 (*subglobosum*?) ^{7046, 7046±}
 - *Staurastrum dilatatum* var. *hibernicum*
 - *disputatum* var. *sinense*.

27. 3. 1934

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