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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.

Namibia

Namibia

I have tried to get in contact
with Dr. Hellberg and Dr. Juvra
for a more exact location of
the sampling sites - but I hadn't
success yet. It seems we better
not to wait more with the departure
of this material to you. When the
manuscript is ready I hope to be
able to insert these labels.
17. May 1969
H. Grönblad

Desmids from SW - Africa collected by Dr. J. Hellberg, 1960.

by

Rolf Grönblad

No 1. From the surface of water weeds in flowing water.

Cosmarium binum
blyttii
capense var. nyassae
granatum
hammeri *monodi* 7102
pseudocognatum
quadrum var. sublatum
sp. c. icon. 7102

Euastrum binale f.
denticulatum
flammeum 7136
praemorsum 7137

Staurastrum quadricornutum
margaritaceum ? 7138

Gonatozygon monotaenium

Other algae:
Ankistrodesmus falcatus
Scenedesmus acutiformis
quadricauda

No 2. From another water weed, ibid.

Cosmarium binum
bioculatum
blyttii
capense var. nyassae 7104
margaritatum
~~subaequaliter~~
sp. c. icon. 7103

tenue Staurastrum floriferum

Other algae:
Ankistrodesmus falcatus
Scenedesmus acutiformis
brasiliensis

~~{Cyanophyceae = one species = ccc}~~

No 3. as No 2.

Cosmarium sp. 7114

Staurastrum inflexum

Other algae:
One blue-green alga ccc

No 4. From stones and weeds in rather swiftly running water.

Closterium cornu
venus

Euastrum denticulatum

Cosmarium capense var. nyassae 7139
sp. 7113
sp. -

Other algae:
Scenedesmus ^{or} quadricauda
Spirogyra sp. (very thick) ccc

No 5. From branches of trees that have been lying in water for a long time.

Spirotaenia condensata

Closterium libellula var. intermedium
navicula

platycerum var.obtusum n.var. 7115
truncatiforme 7123
spinulosum var.spinulosum

Micrasterias zeylanica 7124

Cosmarium beatum 7129a, b

binum 7125

blyttii

connatum var. 7119

controversum? (ad C.decoratum?)/long.95,lat 68./ 7126

granatum

hammeri

hellbergii BBB

laeve var.septentrionale

meneghinii

novae-semiliae

perforatum 7122

pseudobroomei 7126

pseudonitidulum var.angustisthmium Gbl & Sc. 7117

pseudosulcatum 7111

striolatum var.nordstedtii 7109

subauriculatum 7113

subcostatum var.boeckii

trachypleurum var.spinosum (?) 7127

venustum var.excavatum 7118

zonatum f. AAA

sp. 7114

Arthrodesmus ralfsii var.brebissonii 7116

Staurostrum asterias 7128

dilatatum

diptilum var.mossambicum 7107

gracile f. (small)

hexacerum

leptodermum var.cornutum

orbiculare var.depressum

tetracerum

Spondylosium planum

Onychonema laeve

Hyalotheca mucosa (minor)

Gonatozygon brebissonii (cellulis longissimis)
monotaenium

Other algae:

Caelastrum microporum

Pediastrum boryanum

tetras

Scenedesmus armatus

brasiliensis

dimorphus

No 6. Like No 4 but in stagnant water.

Closterium venus

Euastrum attenuatum var.brasiliense 7141

spinulosum var.spinulosum 7105

Cosmarium hammeri

humile

speciosum

sp. 7106

Staurastrum dilatatum var. hibernicum
diptilum var. mossambicum
quadricornutum
renardii
rugulosum

Gonatozygon monotaenium

1. 7115 *Euastrum platycerum* var. *obtusius* nova var.
2. 7122 " *divergens* var. *rhodesiae*
3. 7112b " *spinulosum* subsp. *africanum* var. *duplo-minus* W&W
4. 7112a " " " " (?)
5. 7105 " " "
6. 7123 " *truncatiforme*
7. 7120 " "
8. 7110 " *dubium* var. *tritum* (?)
9. 7124 *Micrasterias zeylanica*
10. *Cosmarium zonatum* f.
11. 7119 " *connatum* f.
12. 7113 "
13. 7106 "
14. 7111 " *pseudosulcatum*
15. 7104 " *capense* var. *nyassae*
16. 7122 " *perforatum* f.
17. 7117 " *pseudonitidulum* var. *angustisthmium*
18. 7103 " *subauriculatum*
19. 7102 " *monodii*
20. 7121 " *hellbergii*
21. 7118 " *venustum* f.
22. 7129a " *beatum*
23. 7129b " "
24. 7127 " *trachypleurum* var. *spinosum*
25. 7126 " *pseudobroomei*
26. " *controversum*
27. 7125 " *binum* f.
28. 7121 " *striolatum* var. *nordstedtii*
29. 7121b " " " "
30. 7116 *Arthrodesmus ralfsii* var. *brebissonii*
31. 7128 *Staurastrum asterias*

List of species.

- Spirotaenia condensata*
Closterium cornu
 libellula var. *intermedium*
 navicula
 venus
Euastrum attenuatum var. *brasiliense* 7141
 binale f.
 denticulatum
 divergens var. *rhodesiae* 7122b,c
 dubium var. *tritum* 7110
 flammeum 7136
 platycerum var. *obtusum* 7115
 praemorsum 7137
 spinulosum var. *spinulosum* 7105
 var. *africanum* 7112a,c
 var. *rotundatum* n.v. 7112b
 truncatiforme 7123
Microsterias zeylanica 7124
Cosmarium beatum 7129a,b
 binum 7125
 bioculatum
 blyttii
 capense var. *nyassae* 7104,7139
 connatum var. *skujae* 7119
 controversum (?) 7126
 granatum
 hammeri
 hellbergii n.sp. BBB
 humile
 laeve var. *septentrionale*
 margaritatum
 meneghinii
 monodii 7102
 novae-semiliae
 perforatum 7122a
 pseudobroomei 7126
 pseudoconnatum
 psaundonitidulum var. *angustisthmium* 7117
 pseudosulcatum 7111
 quadrum var. *sublatum*
 speciosum
 striolatum var. *nordstedtii* 7121a,b,7109
 subauriculatum 7103
 subcostatum var. *boeckii*
 trachypleurum var. *spinosum* 7127
 venustum var. *excavatum* 7118
 zonatum var. AAA
 sp.- 7114
 sp.- 7113,7140,7106
Arthrodesmus ralfsii var. *brebissonii* 7116

Staurostrum asterias 7128
dilatatum var. dilatatum
var. hibernicum
diptilum var. mossambicum 7107
floriferum
gracile (?)
hexacerum
inflexum
leptodermum var. cornutum
margaritaceum (?) 7138
orbiculare var. depressum
quadricornutum
renardii
rugulosum
tetracerum

Spondylosium planum

onychonema laeve

Hyalotheca mucosa (f. minor)

Gonatozygon brebissonii
monotaenium

Spirorhena condensata

Clas. cornu
v. bellula v. intermedia
navicula
venus

Eurostema alternata (7141) v. *traxibusa*
binale f

de T. culata

divergens v. *rhodensis* 7126, c
dubium v. *Taitum* 7110

flammeum 7136

platycornu v. *obtusum* 7115

praerosum 7127

spinulosum v. *epinulosum* 7105

↳ *diversa*
" f. *reticulatum* n. f. 7112 b
" v. *epicolum* 7112 c, a
truncatiforme 7123

~~*umbonatum* 7127~~

Boskerman

jealana 7129 a, b
pinum 7125
tricolatum
glyce

capense - *nyssaee* 7104 7139

comatum var. (*chujia* 7119
reticulata)

controrsum? 7126

granatum

hammeri
hellbergii BBB
humile

leve v. *septentrionale*

marginatum
meneghinii
monardi 7102

novae-embiae
portoratum 7122 a
pseudoboskermanii 7126

piccolomontana
pusilli f. *dala* v. *ar. quatuordecim* 7117
pseudosulcatum 7111

quidem var. *subulatum*

speciosum

striatum + *nordstedtii* 7121/7109^{o. f.}

subauriculatum 7103

subulatum v. *brechii*

trachypleurum - *spinosum*? 7127

venustum v. *occidentale*
sp 7114 7118

sp 7113, 7140, 7106

Zonatum + AAA

Nivivasi. *Zeylanica* 7124

Stellaria ^{salpigii} ^{brubisii}
~~salpigii~~ var (7116)

Spondylocarpus *plumum*

Angiospermum *laeve*

Utricularia *maconi* (6 minor)

Jaumea *arterialis* 7128

dilatatum v *dilatatum*

- " - v *brubisii*

deptibus v *mosambicum* 7107

floriferum
gracile (?)
nigricans
inflexum

leptodermum v *cornutum*

margaritacea? 2138

Crematosys. ^{brubisii} *maconi*

orbiculare v *depressum*

quadriconatum

renardii

rugulosum

Tetracera
~~*subglobosa*~~

The name Oramboland was earlier
used by the Finnish missionaries,
but about 3 decades ago it was
changed to Amboland, which should
be more correct. - H.L. April 1964

Shown as "Oramboland"
on recent maps

Desmids from Amboland, SW - Africa
collected by Professor M. Juva 1961.

by

Rolf Grönblad

<i>Corn striatula</i> v. <i>nobilis</i> 7177	<i>Hypolethia</i> <i>Stroblina</i> v. <i>Stroblina</i> - n. sp. <i>novo</i> (det. 19)
<i>subuniculata</i> 7165	
<i>subpectinata</i> <i>den</i> v. <i>gregaria</i>	
<i>subopposita</i> v. <i>nobilis</i>	<i>Chytrium</i> <i>foliforme</i> 7194
<i>thalloforme</i> (?) f. ? 7197	
<i>Trachysphaera</i> (L.) <i>subuniculata</i> 7166	<i>Sphaerium</i> <i>granulatum</i>
sp. - 7167	
sp. - 7188	<i>Disordia</i> <i>haslegii</i> <i>constricta</i>
sp. - 7208	
<i>Yendoia</i> <i>constricta</i> v. <i>deltoidea</i> 7212	
<i>Stauridium</i>	<i>Grantia</i> <i>rigida</i> <i>montana</i>
<i>altissimum</i> 7197	
<i>asteroides</i> 7202 <i>constrictum</i> var. - 7205 <i>cruciatum</i> f. (<i>Stauridium</i> <i>bracteatum</i>) " <i>obliquatum</i> v. <i>patens</i> ? <i>obliquatum</i> 7199 <i>disputatum</i> v. <i>viridula</i>	
<i>floriferum</i> f. <i>punctatum</i> ? var. 7197 <i>laeve</i>	<i>Bulboschista</i> <i>laevigata</i> <i>complanata</i> (<i>Biatoma</i>) 2)
<i>leptochloa</i> v. <i>constricta</i> <i>marginatum</i> ? 7205 <i>micronatum</i>	<i>Kribbia</i> <i>laevigata</i> <i>laevigata</i> <i>Pedicularia</i> <i>laevigata</i>
<i>orbiculata</i> v. <i>depressum</i>	<i>Astrum</i>
- - - v. <i>hibernicum</i>	
<i>quadriconvolutum</i> <i>schizocarpum</i> <i>subaristatum</i>	<i>Scandium</i> <i>aristatum</i> v. <i>platydictyon</i> <i>aristatum</i>
<i>Tetradium</i> <i>laevigatum</i> v. <i>trifurcatum</i>	<i>Arachnoidium</i> <i>laevigatum</i>
sp. - (ad <i>S. laevigatum</i> ?) 7176	<i>Sorathium</i> <i>americanum</i>
sp. - (ad <i>S. constrictum</i> ?) 7180	<i>Sporogone</i> (<i>sp.</i>)
sp. - - 7197	
sp. - - 7200	
sp. - - 7206	

Samobland 1966 (Kullis)

<i>Nectria digitata</i>	<i>Eu. spinulosum</i> 7184 = late
	— " — var 2210
<i>Closterium</i>	truncatiforme 7179
<i>syn</i>	
<i>lythia</i>	sp — 7166
— var? 7175	
<i>dianae</i>	
<i>gracile</i>	<i>Microsteris thomaeana</i>
in parva	<i>Zeyheriana</i> 7183
<i>Kuehniopsis</i>	
<i>luteola</i> v <i>intermedia</i>	<i>Cosmoneura</i>
<i>lunata</i> v <i>nearctica</i> 7203	albicaulis v minima
7191	astensis? 7167 = late
<i>malinvaria</i> 7174	<i>binum</i>
<i>malinai</i> (?) 7170	<i>bleytheri</i>
<i>nasicula</i>	<i>capitata</i> v <i>rigidula</i>
<i>nematodes</i>	<i>constrictum</i>
<i>perich</i> v <i>angustum</i>	<i>compressum</i> v <i>latum</i>
<i>prostratum</i> 7182	<i>contractum</i>
<i>sitocoma</i>	
<i>spilobolus</i> v <i>laticeps</i> 7192	— v <i>obliquum</i>
<i>venius</i>	incurvata f. 7213
	<i>Zede coratum</i> 7162
	<i>digitiformum</i> (depressum) 7207
	<i>fractum</i> 7198
X <i>Thurmonia ovatum</i> = late 7211	<i>hammisi</i> v <i>chardakii</i>
	<i>hillebrandii</i> 7214
	<i>improbatum</i>
<i>Eurostrom</i>	
<i>angulosa</i> f. 7189	<i>Kjellmani</i> v <i>ovatum</i> 7202
<i>ovatum</i> f. 7195	<i>laeve</i> 7212
<i>binde</i> f. <i>gutwinckii</i>	<i>margaritata</i> 7209
<i>denticulatum</i>	<i>monodis</i> = late 7222 X
	<i>notumburgense</i>
<i>divergens</i> 7196	<i>obscutum</i> (fig x 2053)
<i>spinescens</i> f.	<i>Carrollatum</i> 7172, 7216
<i>flavescens</i> 7173	<i>obtusatum</i>
<i>hypochondrioides</i> 7193	<i>parvula</i> 7168
<i>lucii</i> <i>Kimmellii</i>	<i>perforata</i> v <i>oleaginea</i> 7169
<i>platycerum</i> f. 7192	<i>pseudomacrum</i>
<i>presmossii</i> 7171, 7175	<i>pseudopyramidalatum</i>
<i>puberulum</i> (?) 7169, 7178	<i>graminis</i> f. 7185
or <i>hirsutum</i> = <i>reductum</i> 7185	<i>rugellii</i>
<i>sphyrinoides</i> 7181	<i>retrosum</i> ? 7166

Desmids from Amboland.

List of species.

Netrium digitus

Closterium ~~cornu~~ ^{acutum}
cynthia

" var. - (?) 7175

dianae

gracile

incurvum

kuetzingii ^{var. angustum 7216}

libellula var. intermedium

lunula var. maximum 7191, 7203

malinvernianum 7174

malmei (?) 7170

navicula

nematodes

parvulum var. angustum ^{gracillum f. 7248}

setaceum ^{cralsii var. hybridum}

spetsbergense var. laticeps 7182 ^{subulatum 7217}

venus 7222

Pleurotaenium ovatum 7211

Euastrum angolense f. 7189

ansatum f. 7195 ^{ansatum f. 7231}

binale f. gutwinskii

denticulatum? 7233

divergens 7196

dubium

elegans f.

evolutum 7172, 7216

flammeum 7173

hypochondroides 7193

luetkemulleri 7225a ^{mononcyllum var.? 7224}

platycerum f. 7192 ^(praemorsum? 7232)

pulcherrimum (?) 7169, 7178, 7241

sibiricum var. reductum 7186

sphyroides 7181

spinulosum 7184 var. spinulosum 7221, 7246

" var. 7210, 7220

truncatiforme 7179

Micrasterias ~~thomasiana~~ ^{pinnatifida 7223}

zeylanica 7183

Cosmarium abbreviatum var. minus

askenasyi 7163 ^{angulosum 7242}

binum 7249

blyttii

capense var. nyassae

connatum

conspersum var. latum

contractum

" var. ellipsoideum

cucurbita f. 7213

decoratum (?) 7167 ^{colscachondrum f. 7229}

depressum 7204

diplosporum 7198

poniodes ^{caezium 7243}

granatum ^{(granatum) f. 7230, 7244}

hammerit var. schmidlei ^(var. africanum 7228, 7166)

hellbergii 7214, 7226

impressulum

kjellmani var. ornatum 7207

- laeve 7217
 margaritatum 7209
 monodii 7188
 norimbergense
 obsoletum (long. 49 x lat. 55) 7249
 obtusatum
 pardalis 2168 (*Psathydermum* 7218)
 perforatum var. skujae 7164 (*polymorphum*? 7220)
 pseudamoenum (*Psathydermum* 7235)
 pseudopyramidatum (*Pseudoretus* forme 661)
 quinarium (?) 7185
 regnellii
 retusum 7166
 striolatum var. nordstedtii 7177
 subauriculatum 7165
 subprotumidum var. gregorii
 subspeciosum var. validius
 tholiforme (?) f. 7187
 trachyleurum f. (?)
~~tallobiatum (?) 7166~~
 tumidum 7201
 sp. 7167 (*willheimii* 7219)
 sp. 7168
 sp. 7208
 sp. 7225
 Xanthidium concinnum var. boldtianum 7212
 Staurostrum alternans 7197
 asterias 7202
 conctectum var. 7215
 crenulatum f. (Krieger, Sunda Exp.)
 dejectum var. patens
 dejectum 7199
 disputatum var. sinense
 floriferum f.
 furcatum (?) var. 7197
 laeve
 leptocladum var. cornutum
 margaritaceum (?) 7205
 mucronatum
 orbiculare var. depressum
 " " hibernicum
 quadricornutum
 setigerum
 subavicula
 tohopekaligense var. trifurcatum
 sp. (ad S. tumidum?) 7176
 sp. (ad S. conctectum ?) 7180
 sp. 7197
 sp. 7200
 sp. 7206, 7227
 Hyalotheca dissiliens var. hians
 " f. minor (lat. 19u)
 Onychonema filiforme 7194 (*laeve* var. *micracanthum*)
 Sphaerozosma granulatum
 Desmidiium baileyi
 coarctatum
 Gonatozygon monotaenium

member file completed
only to here
completed thru Xanthide.
(~~cos I~~)

add to juva
Chroococcus sp

7166

~~C. hawaiiensis~~

juva

Other algae:

Bulbochaete sp.

Caelastrum cambricum

Diatoms

Kirchneriella lunaris

Mougeotia sp. (*Nephrocytium agardhianum*)

Oedogonium sp. (*Oocystis solitaria*)

Pediastrum boryanum

simplex

tetras

Scenedesmus arcuatus

" var. platydiscus

armatus

brasiliensis

dimorphus

Sorastrum americanum

Spirogyra sp. (very thick)

Trachelomonas australica

cylindrica (*bacillifera* var. *ovalis*)

sydneyensis (*lumermanni*)

velocina