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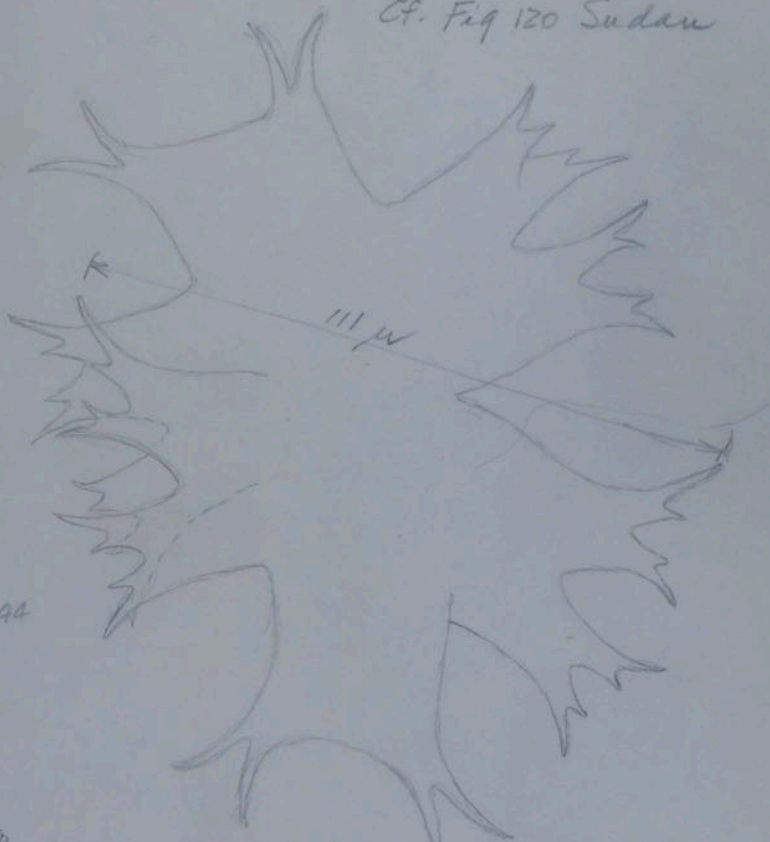
About the Institute

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.

M. radians fa.

cf. Fig 120 Sudan



15x44

Broken and distorted specimen

Uganda 5

Jan 24/59

L 147
W 126
I 21

Clipped to *M. nadians*
v. latiloba DC
= *Ambrosium*
latilob

1544

Uganda 3

X1214
Feb 9/59

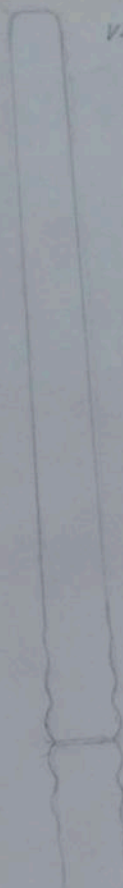
L 610

W base 32

W pole 24

Pl. trabecula
var. elongatum ?

[6x40]



5x44



15x44

Chloroplast in separate small
parietal plates, each with one
(or more ?) pyrenoids.

Uganda 5

Jan 20/59
nuu
x410

L 910
W base 39
W pole 30
I 30

Pl. trabecula (Ehrbg.) Näg. [yulio]
v. *elongatum* Cedergren [fa]

Longer than the maximum
given by Krieger (830 μ)

cc 6
ra 7



5x44

153
45
198
396

Uganda 5

Jan 26/59

L 552
W center 15
W pole 4

Cl. Kuetsingii Bréb.



20x10

Wall striate, about
12 striae visible at center
8 pyrenoids per semicell

Uganda 5

Jan 21/59

L 435
W center 12
W pole 3

Cl. setaceum

5x44

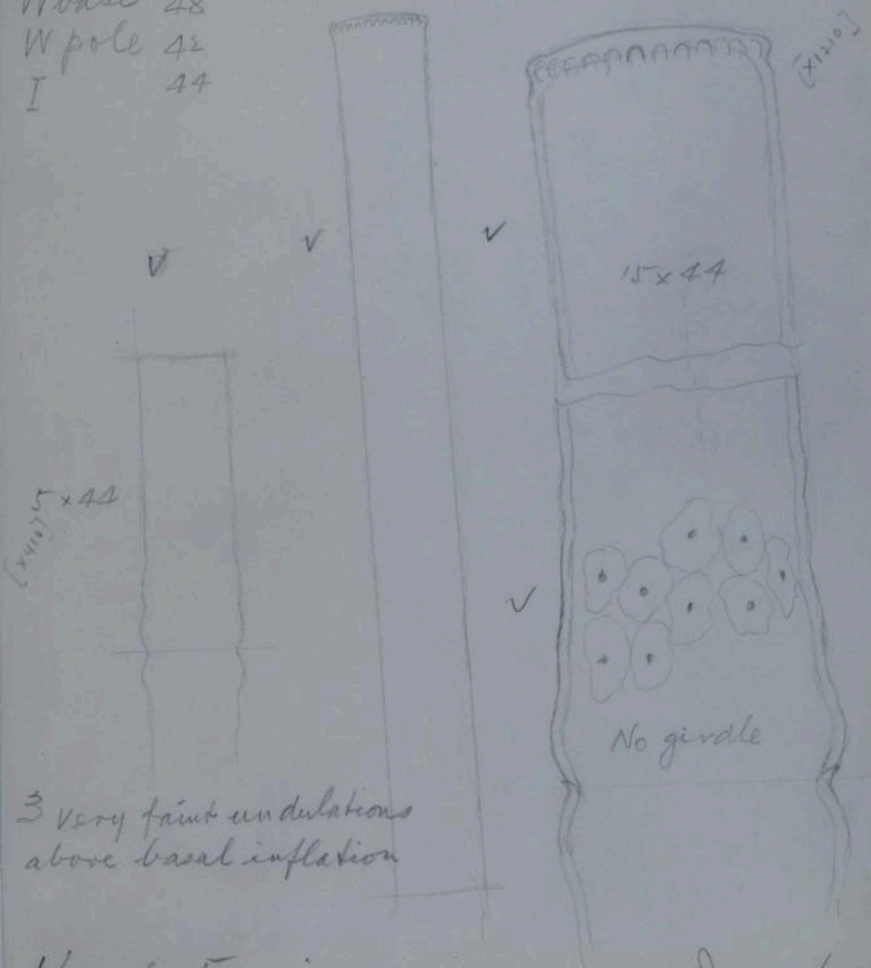
Striae not visible

Uganda 5

Jan 20/59

L 1040
 W base 48
 W pole 42
 I 44

Pl. gloriosum (Turn.) W & W ?



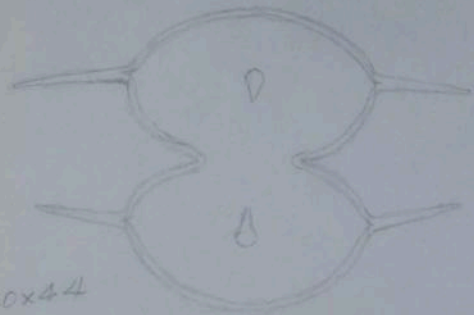
3 very faint undulations
 above basal inflation

Vasaka 5

Jan 21/59

L 39
W sep 31
CSP 57
I 11

(9)
St. subcornutum De Toni v. *parvum* Grönbl & Scott
1953 p 93



20x44



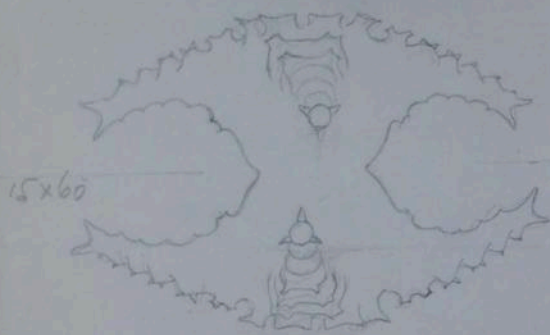
Uganda 5

Jan 14/59

L 40
W apr 60
I 13

St. subcyclacanthum sp. nov. ?
or *pseudocyclacanthum*

(y)



Uganda 5

Jan 25/59

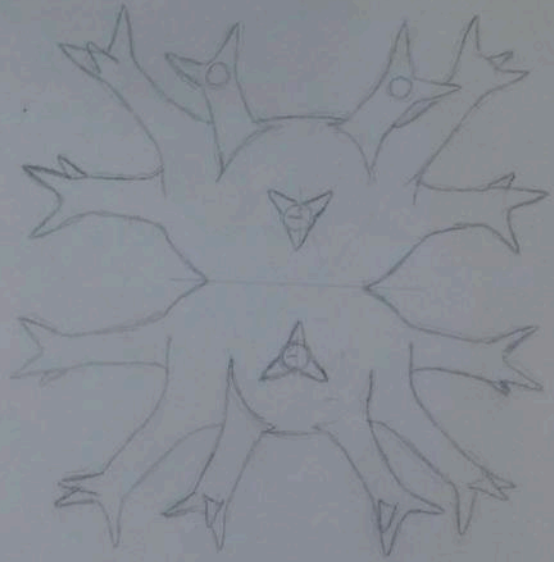
10 184

V. NOV

St. tohopekaligense v. *robustum* Scott & Presl, in Ms.
from Indonesia

L spr	39
cpr	67
W spr	33±
cpr	66
I	20

⊙
A

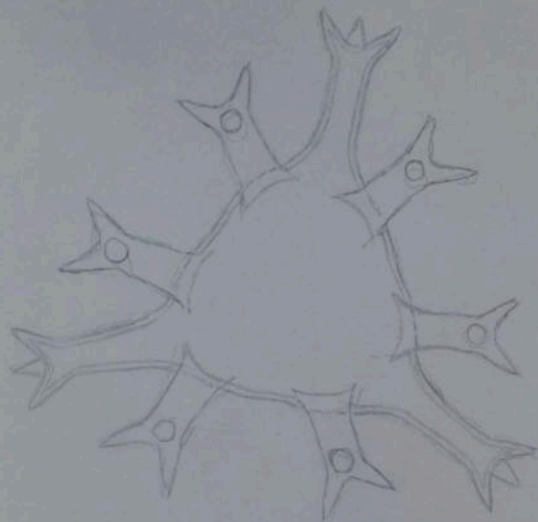


20x44

Uganda 3

RR

Jan 10/59



Uganda 3

RR

Jan 10/59

L ssp 48
csp 61
W ssp 42
csp 68
I 19

cf. *St. longispinum* (Bail.) Arch in Bonnierly 1957
p. 1086 Pl 14:122.

cf. *St. wildemani* v. *rotundatum* Gröubl & Scott 1957

20x44



Uganda 5

Jan 19/59

20x44

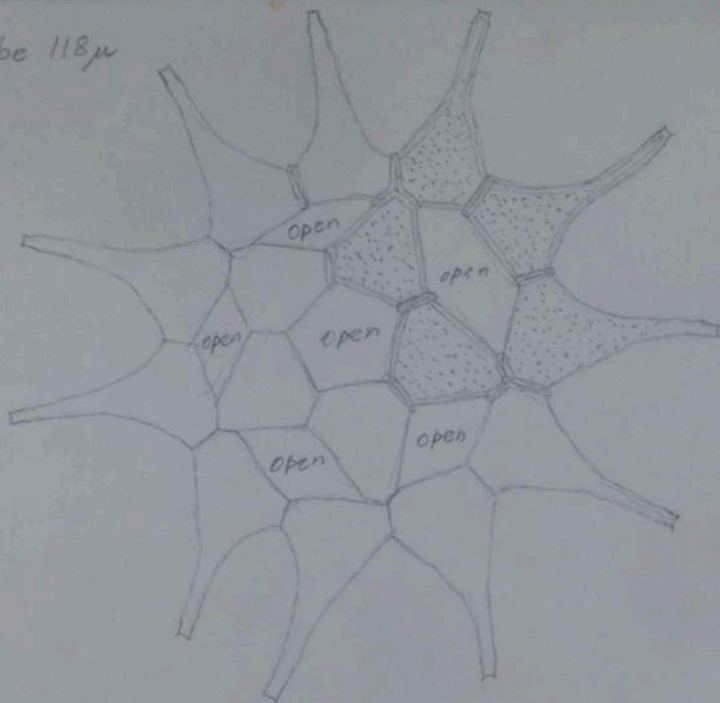


Uganda 5

Jan 19/59

Diam. coenocoe 118 μ

15 x 44



Uganda 5

Jan 13/59

Tetraëdron

Wssp 47
csp 62

20x44



Uganda 5

Jan 24/59

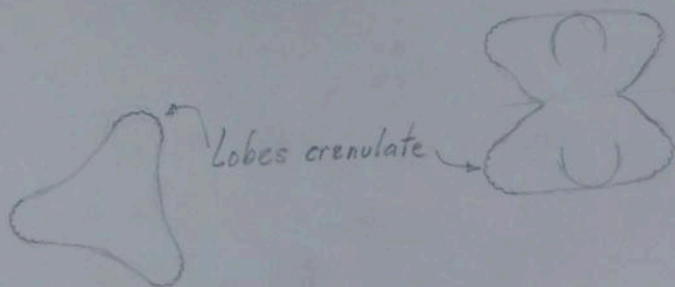
L 24
W 22
I 9

St. disputatum W & W ?

See W & W. Monograph IV pp. 176-77

cf. *St. depsydra* v. *obtusum*. Photos 400, 401. Sudan.

20x44



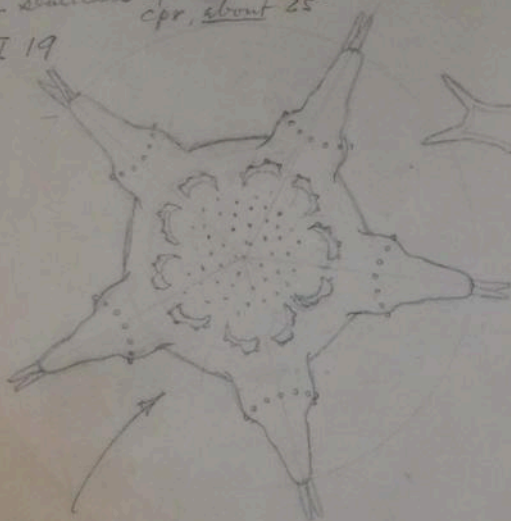
Other details not visible

Uganda 4

Feb 9/59

W cpr 60 do 20
L semicell spr 21
cpr, about 25

I 19



Slightly tilted.

No basal verrucal

Processes are nearly horizontal

60.9
91.2

Reconstructed from
a damaged semicell

Uganda 4

S. Guerbermanis F

Feb 8/55

9-26

L spr	38
cpr	46
W cpr	63
I	20

St. Fuellebornii Schw. Fa.
 reduced



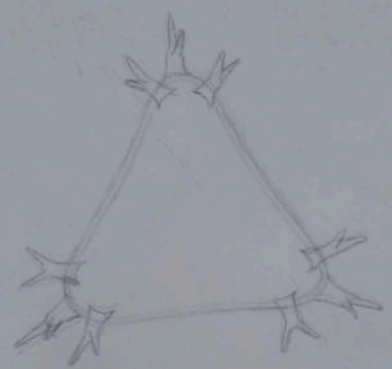
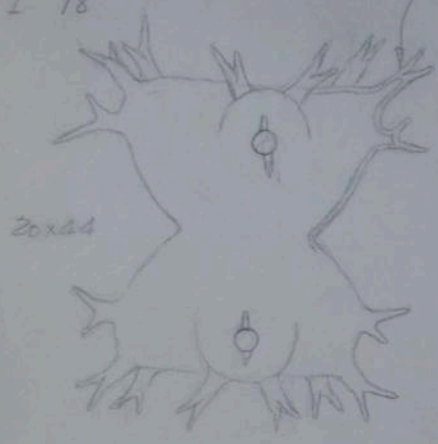
Uganda 5

Jan 24/59

L spr 37
cpr 49
W spr 32
cpr 46
I 18

33 St. contectum Turu v. evolutum v. nov. ?

Processes hollow



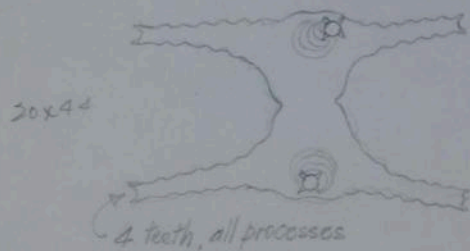
Uganda 5

lucate

Jan 24/59

L 25
W cpr 43
I 7

St. gracile v. *coronulatum* Boldt ?

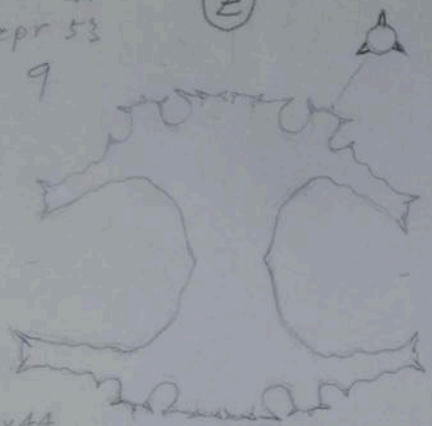


Uganda 1

Jan 31/59

L 41
Wepr 53
I 9

(Z)



20x44

Rear view

3-radiate

This agrees with the plant that Bourrelly (1957) calls *St. galeatum* Turn. (1892, Pl.14, Fig.3,9,10).

I do not think that either this plant or Bourrelly's can be assigned to *St. galeatum*, either on the basis of Turner's drawings, or of West & West (Ceylon, 1902, Pl.22, Fig. 19).

Turner's figures 3 and 9 are poor attempts at drawing a form of *St. saltans* (also his fig. 5 which he calls *St. orientale*). His Fig. 10 may be the same as West & West's figure, but neither of them agrees with my sketch nor with Bourrelly's illustration.

The distinguishing features of the African plant are the very large turret-like verruca with three spines at the base of each process, and the fact that there are only two teeth at the extremity of each process, an unusual feature in a 3-radiate desmid.

I had a good look at the vertical view of this plant, but in my efforts at manipulation it got entangled in a mass of mucus from which I was unable to dislodge it.

Only 1 seen. Could not get top view.

Believe it is new species.

cf *St. laceratum* Turn, 1892 Pl 15:11

Uganda 5

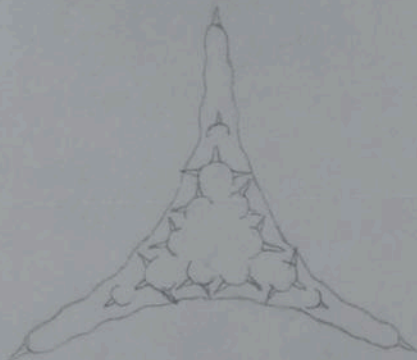
20. Think it is new

Jan 12/59

L 41
Wepr 53
I 9

St. laceratum Turn. v. *Bourrelyi* v. nov.
= *St. galeatum* Turn., in Bourrely 1957, p. 1083

Comments on
L 41 9 May 20



Freehand top view, reconstructed from
rear view dated Jan 12 1959

Uganda 5

May 20 1963

L 42
W epr 87
W base 12
I 8

St. leptocladum v. *cornutum* Wille

20x44



(2)

Uganda 3

KRR

Jan 7/59

L ssp 39
CSP 52

W [23]

I 23

[11 26]
St. leptodermum Lund v. *ikapoa* (Schum) W & W

20 x 44

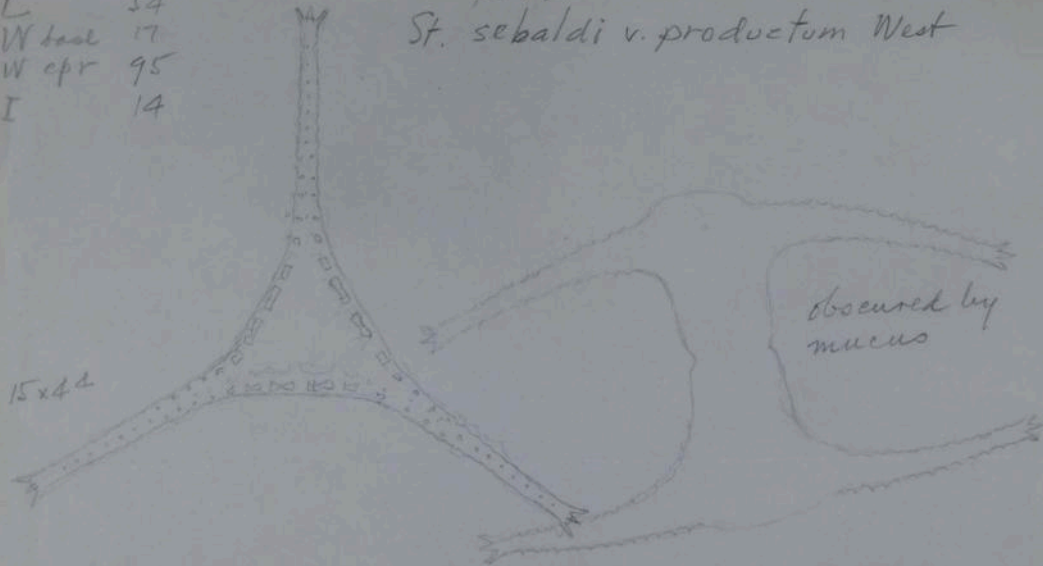


Uganda 5

Jan 24/59

L 54
W basal 17
W cpr 95
I 14

3-121, 3-122
St. sebaldi v. productum West



Uganda 5

mutated

Jan 21/59

L 35
W 32
I 10 ±

¹⁰⁻²⁰
St. orbiculare Ralts

20 x 44



Uganda 3

RR

Jan 10/59

L semicell 18 (20)

W 32

I 9±

St. orbiculare

K 20

20x44



Wall finely punctate

Uganda 4

Feb 10/59

L 28

Wepr 35

I 9

2-104

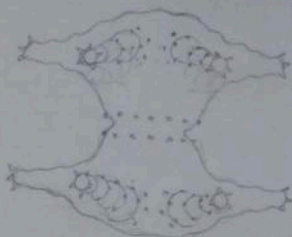
St. pinnatum Turon

CMIT

> [*V. subpinnatum*
because 10 supra-st. granules]

{ but lacks auricular or low 9 proc! }

20x44



6-radiate



Markings uncertain

Uganda 3

RR

Jan 9/59

L spr 13
cpr

(127m)

(V)

W spr } on square 9
cpr } 16

W spr } on diag. 11 ±
cpr } 20

I 5

cf. *St. polymorphum* *Bill v. divergens* Nygaard
in Scott & Pease. Arnhem Land p. 63
Pl. 15 Fig 16

15 x 60



20 x 60



Believe there are some
minute teeth or verrucas on
apical surface, but not sure

Uganda 5

Feb 13/59

L spr 30
 - epr 34
 W spr 22
 cpr 33
 I 13

St. quadricornutum Roy & Biss

"A"
 A



Slightly asymmetric

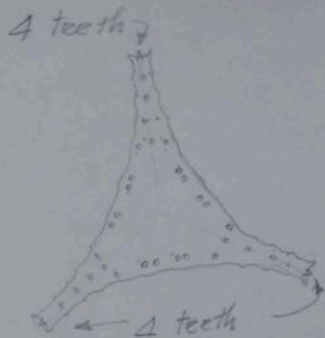
Uganda 5

Jan 21/59

L 25
W cpr 38
I 7

2-112

crenulatum?



Uganda 5

Jan 19/59

L spr	19
cpr	24
W spr	16
cpr	23
I	7

20x44



Uganda 5

Jan 29/59

L spr 12 }
 cpr 18 } semicell
 W spr 27
 cpr 34
 I ?

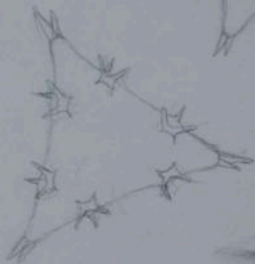
16172

St. forficulatum v. *minus* (F+R) Grönbl & Seott



Apical processes
omitted
(or basal view)

20x44

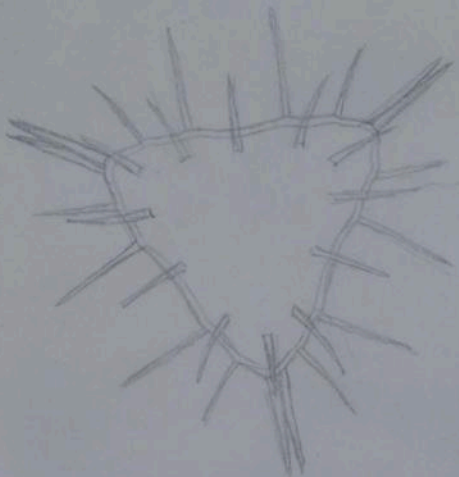
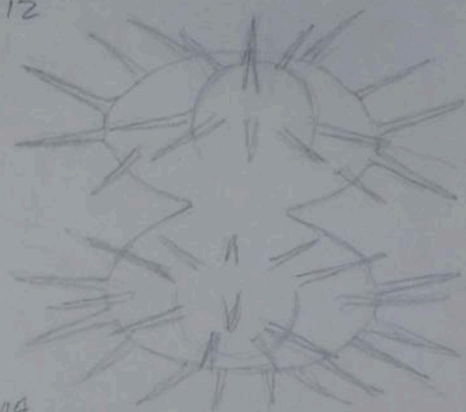


Uganda 5

Jan 24/57

L SSP 40
CSP 51
W SSP 34
CSP 55
I 12

St. setigerum Gleason v. *subvillosum* Gröubl ?
See Bonordely, Sudan 1957, p. 1082, PL 14: 123



20x44

Uganda 5

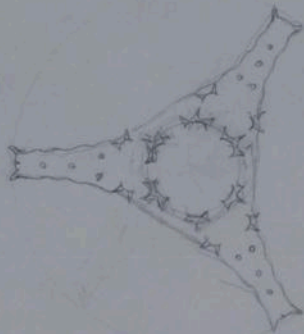
Jan 18/55

L 2 cells 52 = 26 each
W cpr 24 + 26 [42]
I 10

St. cyclanthum W & W ^{11/59}
near var. *depressum* Scott & Grönbl.

(X)

15x60



Uganda 3

RR

Jan 11/59

L 28
Wssp 26
csp 29
I 9

^{uv}
St. apiculatum Boëb
[*dyedra apiculatum*]



Uganda 5

Jan 17/59

L 36
Wssp 34
CSP 50
I 13
Sp "

lef. *St. dejectum* v. *subglabrum* Grönb. fa. *major* (major)
Bourmelly 1957 Pl. 12: 110, p. 1082

20x44



Uganda 5

Jan 14/59

L 32
Wssp 27
 osp 33
I 10
(Gm?)

St. mucronatum Ralfo ?



Uganda 5

Jan 19/59

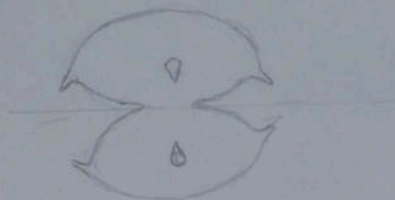
L 24

Wosp 25 (esp 2)

I 8

St. dickiei Ralfo v. *circulare* Turm. ?

of glabrous etc



20x44



Uganda 5

S. dickiei f

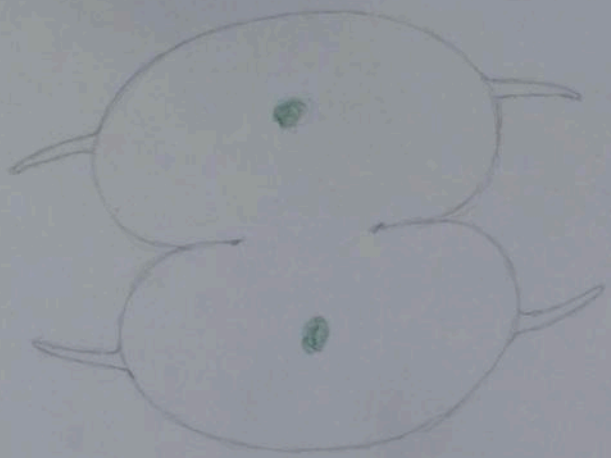
Jan 14/59

X1610

L 56
Wssp 52
CSP 72
I 16

A convergens var *curtum* Turon. 10-8

I have thus identified similar specimens from Indonesia



Uganda 5

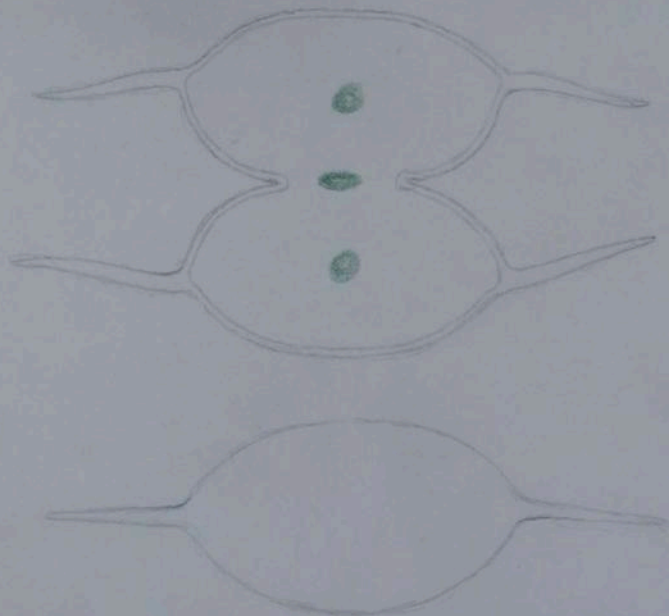
Jan 20/59

A. curvatus Turon

1016

L	44
Wssp	40
csp	79
I	14
T	27

20x44



Uganda 5

Jan 26/59

L 33
W sep 33
 osp 51
I 9

A. subulatus Kütz¹⁶⁻⁹ var. *americanus* (Turcz) W & W

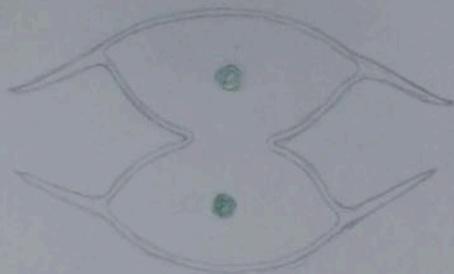
20x44



Uganda 5

Jan 25/59

L 33
Wssp 32
osp 57
I 10

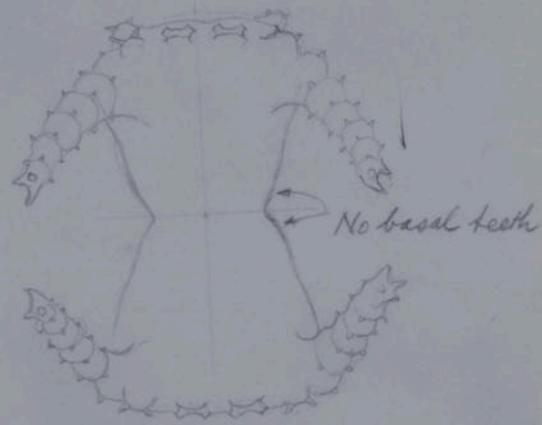
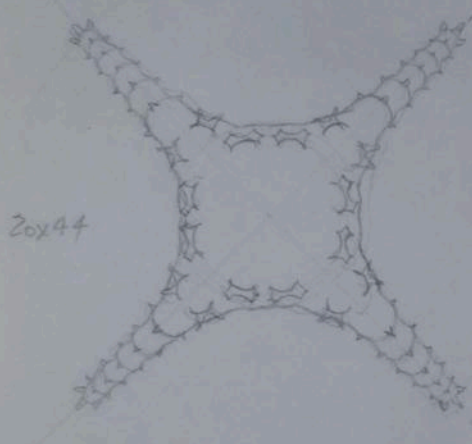


Uganda 5

Jan 20/59

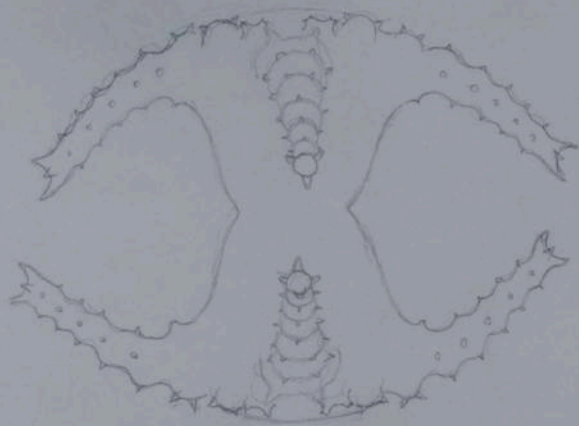
L 51
 W spr on sq 24
 cpr " 48
 cpr diag 66
 I 12

St. cerastes Lund. v. *coronatum* Krieg. Fa



Uganda 5

Jan 18/59



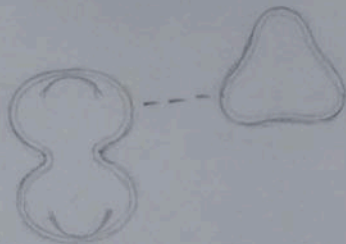
Uganda 5

Jan 18/59

L 22
W 17
I 7

St. coarctatum Breb v. *subcurtum* Nordst

20 x 44



Believe these 2 are the
same species.



L 24
W 21
I 10

This form
is common.



Uganda 1

Jan 30/59

L ssp 23
csp 32
W ssp 25
csp 30
I 6

¹¹⁹
St. connatum (Lund) Roy, Biss fa

20x44



cf. *S. dufrenoyi* Wille
~~inconnu~~

Uganda 5

Feb 11/59

L SSP 60
ESP 86
W SSP 54
ESP 75
I 18
T 26

X subtrilobum v. *inornatum* Skuja fa



Uganda 5

2nd specimen
T = 37

Feb 23/55

L 48

Wssp 50

CSP 61

I 15-16?

T 25

20x45



Drawing not exact
Specimen entangled
in debris



Uganda 3

Jan 10/57

L 49
W esp 45
CSP 5T
I 15

20x44



Uganda 5

Jan 18/59

C. ordanatum ? omitted

L

W 28

I

T 18



20x44

Uganda 2

Feb 3/59

L 30
W 28
I 10
T 19

imbricated



15x60

10 (100) (242)

of *C. ordinatum*, which does not
have the 3 swellings in vertical
view

Markings uncertain
not clearly seen

Uganda 2

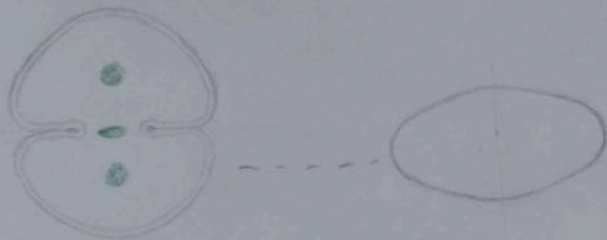
Feb 4/59

L 29
W 28
I 9
T 15

(L)

This looks very simple, but I cannot find anything just like it.

20x44



← L 28
W 24
I 9

Several seen

Uganda!

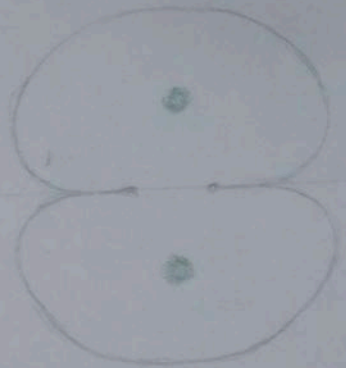
Jan 31/59

L 45
W 40
I 12
T 24

Gf. *C. subtumidum* Nordst

[f. major n.f.]

Jan 11/59
Am. Bot. Soc. Lib.



L 45
W 40
I 12
T 24



Uganda 3

R

Jan 11/59

L 62 46
 W 43 40
 J 12 11
 T 26 26

[C subterminal - S. major n.f.]

Flattened

20x44



Wall markings not visible
 Seemingly smooth

Wall may be very delicately
 punctate

Uganda 3

RR

Jan 9/59

L 14
W 12
I 3
T 9

C. tenue Arch

20x60



Wall smooth

Uganda 3

X2119

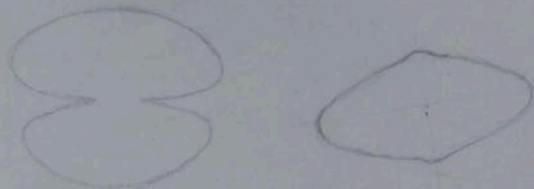
CC

Jaw 9/57

L 24
W 27
I 5
T 14±

C. tithophorum Nordst v. *depressum* W & W
Ceylon, No. 159
Pl. 20 Fig 29

20 x 44



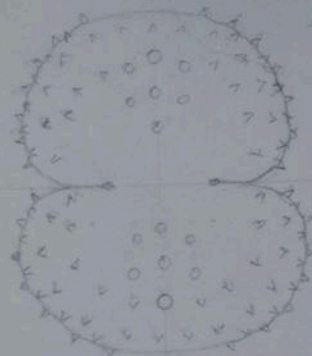
Markings, if any, not visible

Uganda 4

Feb 10/59

L csp 44
W csp 38
I 12
T 25 ✓

20x44



Empty cell

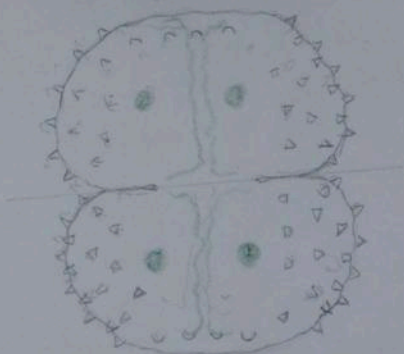


Uganda 3

Digitized by the Hunt Institute for Botanical Documentation

Feb 2/59

L CSP 44
W SSP 36
CSP 39
I 13
T



Central ornament not visible

Uganda 3

Jan 12/59

10 164

L semiell 24

W ssp 36
csp 40

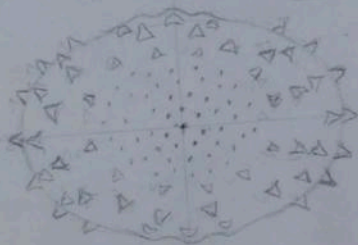
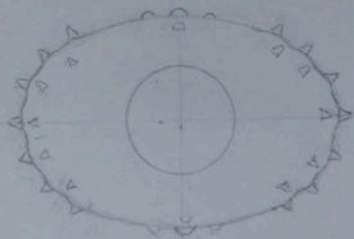
I 12

T 27

15x60

C. trachypleurum Luad.

? var. *spinosum* W & W Madagascar



Uganda 3

Jan 11/59

L 19
W 18
I 7
T 13 ±

C. geminatum ^{10/68} Lund., but smaller than
Australian form
= *C. vogesiacum*



approx →



20x60

Markings not clearly seen

Uganda 5

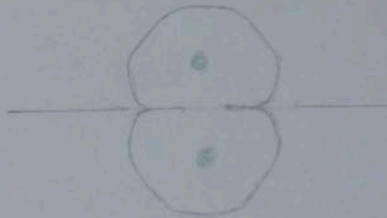
2077
2150

Jan 29/59

L 26
W 19 (1371)
I 6

ref. ^{10 102} *C. sexangulare* Lund
C. wembaerense Schw 1898 p32 Pl 2:8
610 (103/113)

20x44



Uganda 3

RR

Jan 11/59

IC 152

L 58
W 24
I 9
T 21

C. zonatum Lund v. *angustum* Grönb. & Scott

(G)

✓

zonae



Top view broadly elliptical

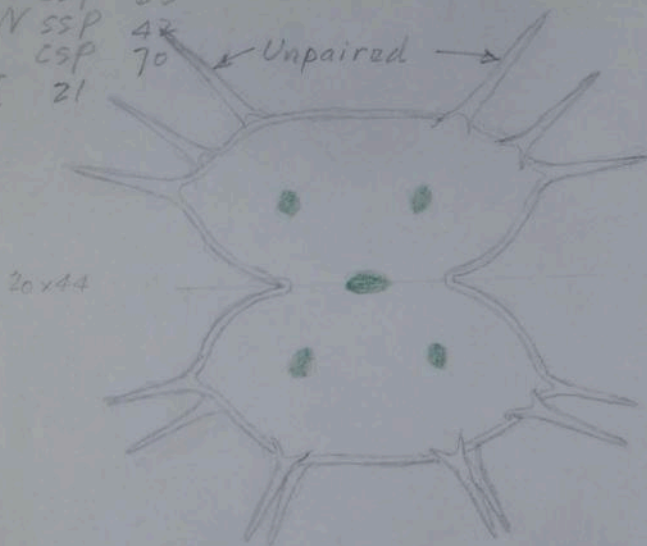
1 seen

Uganda 5

Feb 13/57

L SSP 43
CSP 63
W SSP 42
CSP 70
I 21

X *antilopaeum*
~~*barkii*~~
pseudobengalicum



Specimen embedded in mucus
could not be moved.

Uganda 5

Jan 23/57

L SSP 60
CSP 86
W SSP 54
CSP 75

I 18
T 26

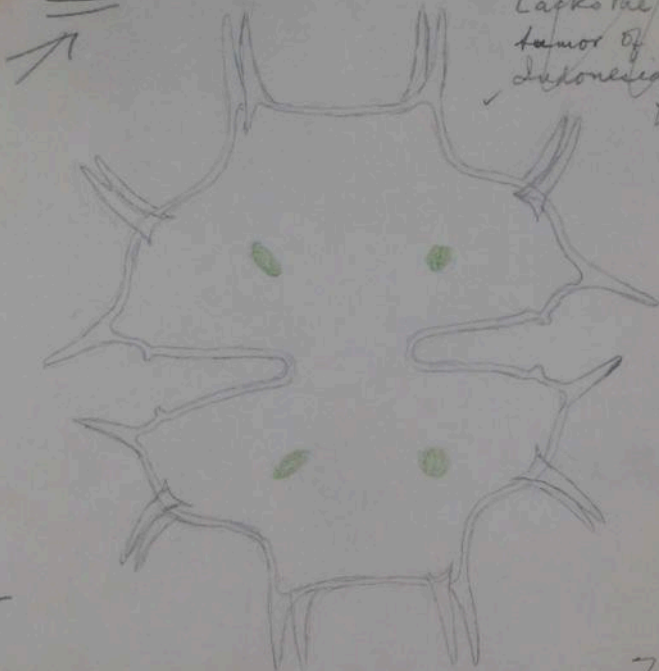
X. subtrilobum v. *inornatum* Skuja Fa.

(T)

Skuja spells it *subtrilobatum*

Lacks the central
tumor of the
Indonesian & Burmese
forms

Obs!



Top view on
next sheet

Uganda 5

Feb 23/55

L 26
W 13
I 6
T

cf *C. trachypodium* W & W, Singapore
[*C. moniliforme* v. *parviflorum* f. sp.]
W & W say their plant is granulate near
the poles.

Z (July)



There are some pores near the apex
but could not see if they are present
on rest of wall



Only 1 seen

Uganda 5

Jan 22/59

L 31
W 36
I 10
T

12 192

Ad C. pseudotaxihondrum Nordst
[= *C. modesta*]



20x24

63.0
99.6

Markings = not visible

1 seen

Uganda 5

Jan 24/57

L 99
W 78
I 36

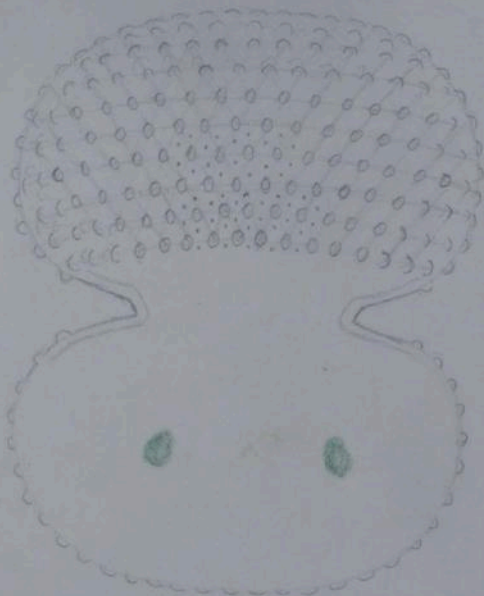
10 (114) (232)

~~C. margaritatum var.~~

C. paradoxum Turon

See Schwidle 1898 p. 26, Pl 2:2

(R)



15 x 44

Only 1 seen

Uganda 1

Feb 1/59

L 17 23 11235
W 16 82 2125
I 4.5 7
T 12 165 2150

C. protuberans Lund^{12 91}

20x60



2170

Several seen

Uganda 4

Feb 10/59

L 63 (194)

C. pseudoconnatum

Diam 45

I 41



x1600

Wall markings
not visible

Uganda 2

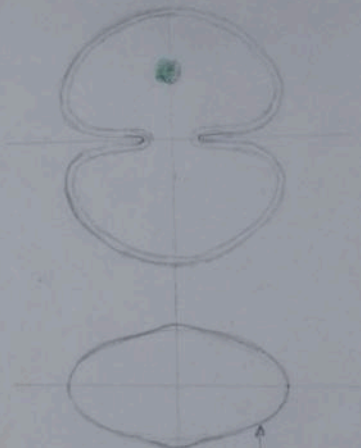
RR

Jan 6/59

L 32
W 28
I 8
T 15

C. phaseolus ?

20 x 44



approx

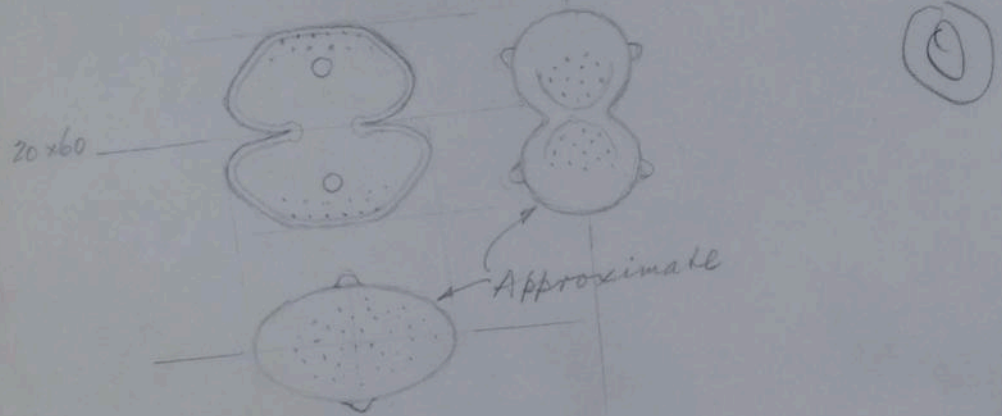
Wall seems to be smooth

Uganda 5

Jan 21/59

L 18 21
W 18 21
I 6 ± 9
Tmax 13 14

C. phaseolus Bred. v. *subbirenum* Racib.
"subbireme" according to Nordet Index



Wall coarsely porose

Uganda 4

Feb 9/59

L 32
W 25
I 10
T 16±

C. hammeri v. *africanum* Fritsch & Rieb
[= *C. pseudocylindricum* var. *africanum*]

20x44



Uganda 2

Feb 7/59

L 63
W 36
I 14
T 27

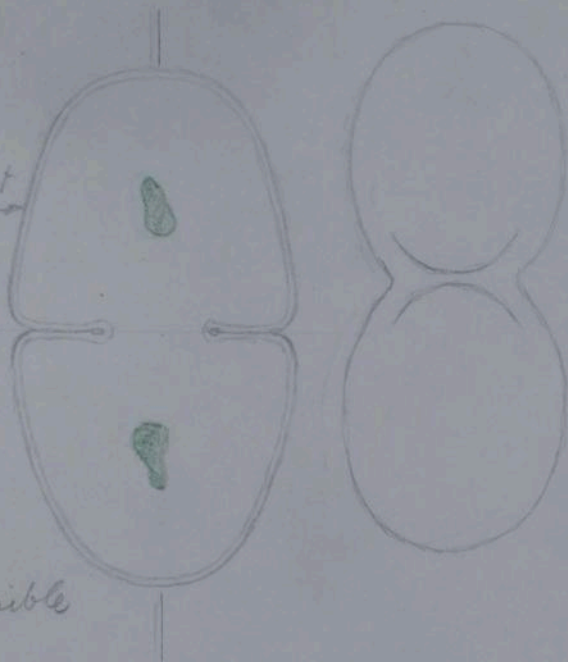
C. pyramidatum

(N)

Almost straight

20x44

Wall porose
pattern not visible

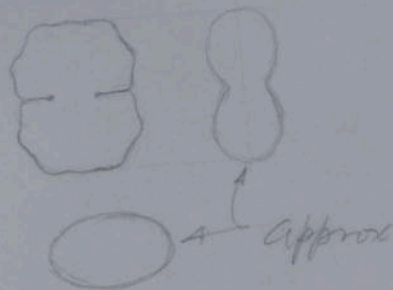


Uganda 2

Feb 4/59

L 13
W 10
I 4±
T 7±

20x60



Uganda 4

Feb 9/57

10 10'

L 15
W 14
I 5 ±
T

C. regnellii

20x60



Uganda 4

Feb 10/59

L 8

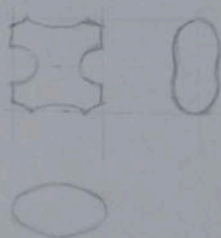
C. regnesi (i) Reinsch

W 8

I 4.5

T 5 ±

20 x 60



All sketches approximate.

Too small to see any details

1 seen

Uganda 1

Feb 1/59

L 60
W 45
I 18
T 34

(8)



20x44

Wall seems to be finely
serbiculate.
Chloroplast not clear.

Uganda 5



✓

29 on the diameter of
it called the
center of cell?

Many seen

Jan 20/59

L 38
W 30
I 11
T about 21

C. Lundellii ?
Too small
[= *C. Scottii* f. *minor*]

20x44



Wall closely porose

1 seen

Uganda 5

Jan 29/59

L 38
W 32
I 10
T 21

~~C. Lundellii Delp v. corruptum (Fernald) W & W~~
~~Note smaller size~~

C. stigmatosum (Naudet)
Krieg

Sunda Pl. 10 Fig 19



20x44

Wall seems to be porose
but pattern not visible

1 seen

Uganda 2

Feb 4/59

L 50
Wssp 48
CSP 51
I 31
T 33

C. subauriculatum WYW
Madagascar



1 seen

Uganda 2

Feb 2/59



L 42
W 25
I 9

^{12 59}
C. moniliforme (Turp.) Ralfs

20 x 44



Uganda 5

Jan 14/59

L 89

W ssp 90
csp 93

I 24

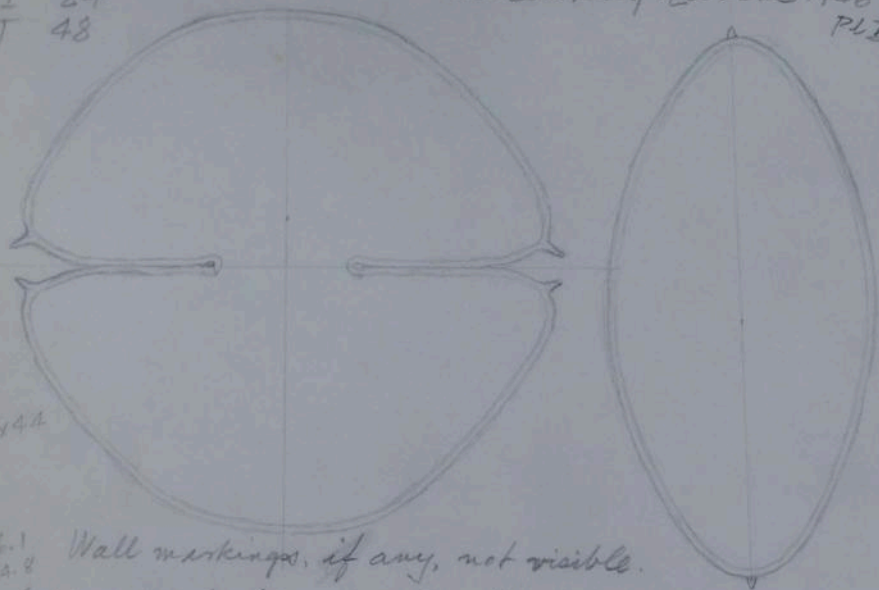
T 48

C. maximum (Boerger) W. W.

var. latum v. nov. ?

See Bourrelly & Leboime 1956, p. 95,

PL IV Fig 48



15x44

(Y)

Fig. 1
9a. 8 Wall markings, if any, not visible.

Chloroplast decomposed, structure not determinable
Believe there are 2 pyrenoids per semicell

Uganda 5

Jan 23/59

L 63
 W ^{ssp} 50
 ^{csp} 56
 I 18
 T 36

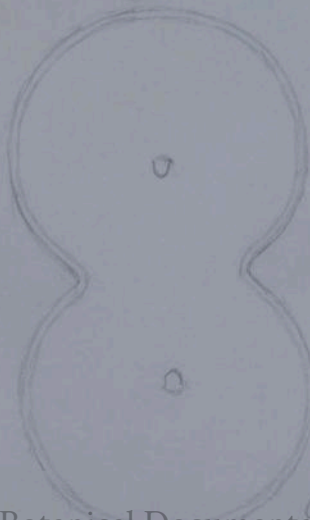
C. lobatum Brges. ?

(7)

But note 2 pyrenoids
 per semicell



20x44



3 seen

Structure of chloroplast
 not clear.

Uganda 5

Jan 19/59

L 30

W ssp 27

csp 29

I 9

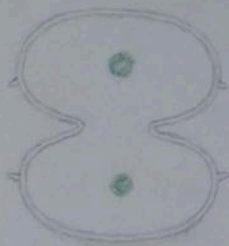
T ~~about 18~~ 17

?

(#)

cf. *C. contractum* v. *papillatum*, ^{w/w} which is }
more than twice as large

20-44



Uganda 5

Jan 24/59

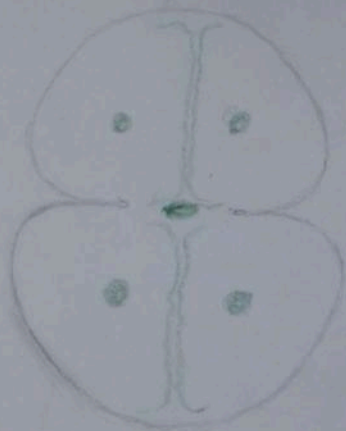
L 52 (56 = 2x lower semi cell)

W 42

I 13

T 32

C. Lundellii Deep v. *ellipticum* West

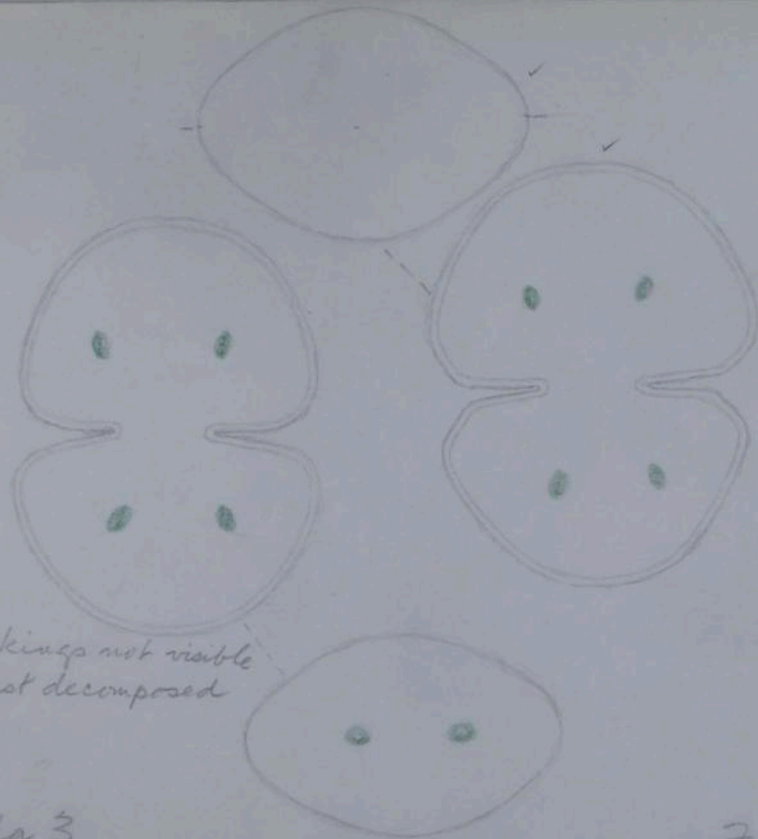


Uganda 3

RR

Jan 10/59

L 52
W 39
I 12
T 27



L 53
W 41
I 12
T 30

20x44

Wall markings not visible
Chloroplast decomposed

Uganda 3

Feb 9/59

L. 50

W 39

I 12



Wall seems to be porose

Uganda 3

Feb 9/59

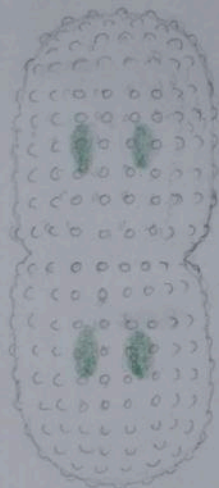
16 (245)

C. mansangense WYW

(S)

L 60
W 27
I 19
T

22 around margin
10 not covered
10 long -



L 31
W 30
I 9
T 18

?



Not certain



15x60



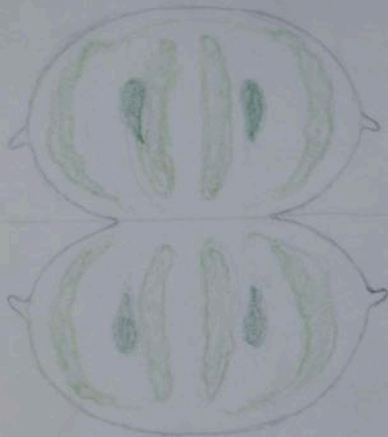
Not certain

Uganda 2

Feb 3/59

L 55
W SSP 43
CSP 48
I 19
T 31

C. lobatum



Uganda 5

Jan 22/59

L 2 cells 48 = 24 μ each (11.554)

W 18

I 6

T 11-12 \pm

C. contractum Karsten

V. minutum (Zelp.) Wt W. Monograph II
p. 172.



Uganda 5

Jan 22/59

L 34 (155)
W 22
I 21

C. cucurbita fa *rotundatum* Krieger (Sunda)
[*C. cylindrocystiforme*]

(F)

15x60



Top view circular
Markings not visible

Uganda 2

Feb 3/59

L 38
W 24
I 7
T 13

C. granatum Britt var. ¹⁰⁴⁰ ~~pyramidalis~~ ^{e/} Schum. 1898
p. 34 Pl. 2 Fig 17



x1500



Uganda 3

RF

Jan 1898

L 39
W 33
I 10
T ?

C. hammeri v. *schmidlei* Gröwbl + Scott 1958

20x44



← Approx

Approx



1 seen

Uganda 5

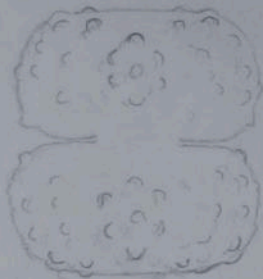
Feb 11/59

101152

of *C. Kilimanense* Schum. 1898 p40 Pl 2:28

L 33
W 30
I 10
T 19

15 x 60



(P)

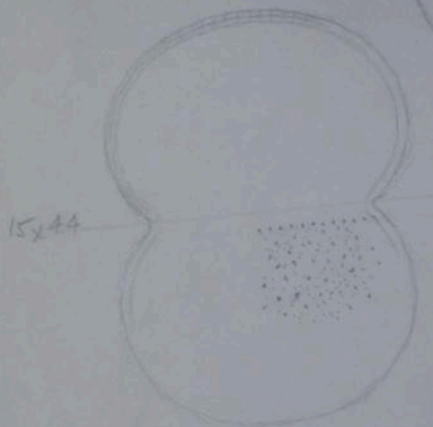
Uganda 3

Jan 7/59

L 70
W 52
I 34
T 42

C. connatum ¹⁰⁶⁸ v. *africanum* Fritsch & Riedl

See Boufford, Soudan,
1957, p. 1068, pl. 7 fig. 56



Empty cell



Uganda 3

Feb 8/59

L 68
W 50
I 35
T 42



15x44

Uganda 3

Feb 9/59

L 27

W 21

I 5

T 15

C. contractum fa?

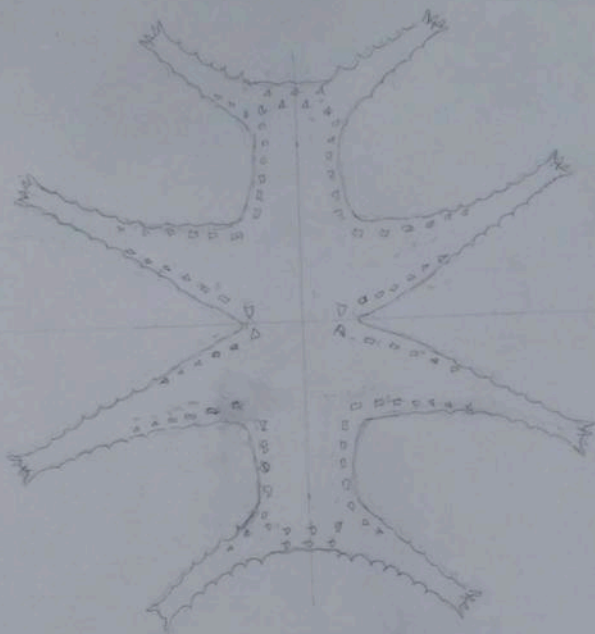


Uganda 3

Jan 12/2

L spr 81
cpr 104
W cpr 99
I 17

M. tropica v. *elegans* fa. *divergens* fa. nov.
~~fa. *ambodivana*?~~ (except for back 7 centric strands)



15x44

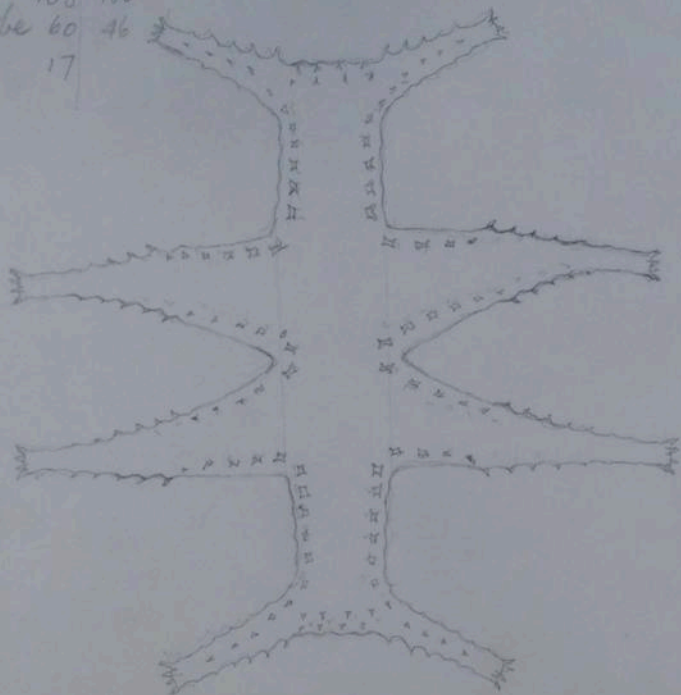
Uganda 5

Jan 22/59

L spr	93	90
cpr	111	102
W cpr	108	100
W polar lobe	60	46
I	20	17

Another

M. tropica Nordst v. *elegans* W & W



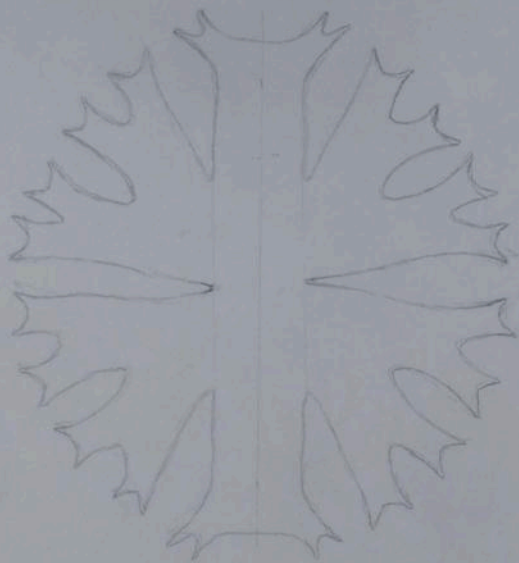
15x44

Uganda 5, and 4.

Jan 19/59

L 92
W 84
I 15

M. crux-melitensis (Ehrbg) Hass f. minor Turin



15x44

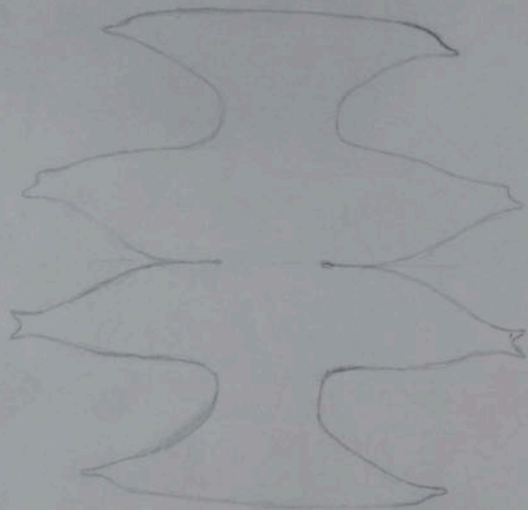
Uganda 5, and 4,

Jan 21/59

L 60
W 65
I 11

M. pinnatifida (Kotz) Ralfs

20x4
x 1600



Uganda 2.

RR
Jan 6/59

L. semicell cpr 75

M. radians fa

W 117

I 18?

15x44



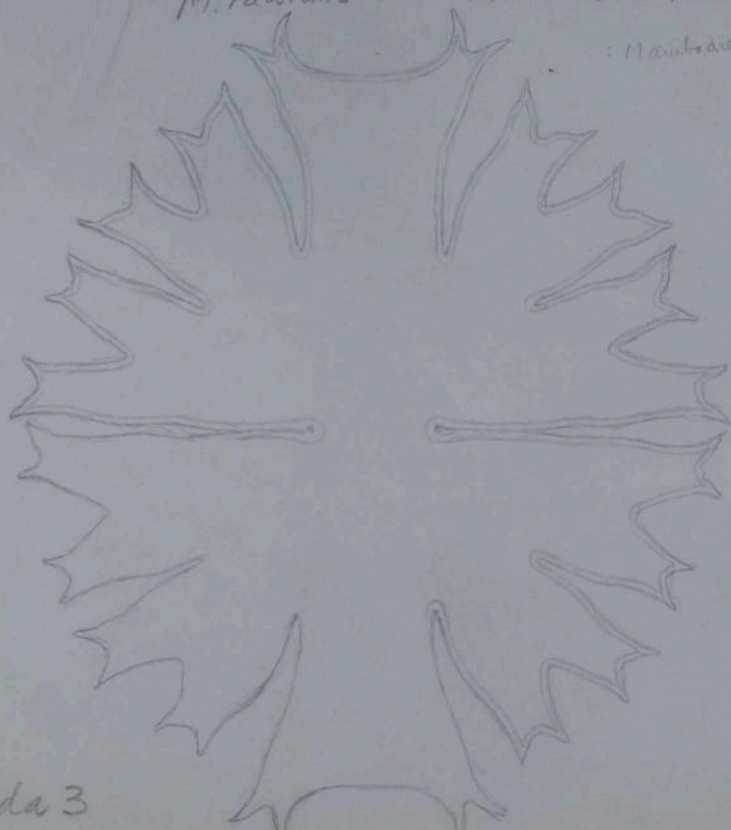
Uganda 5

Jan 29/59

L 138
W 118
I 21

M. radians Turm var *latiloba* v. nov.

: *Mambodacium latiloba*?



15x44

1 seen

Uganda 3

Feb 8/59

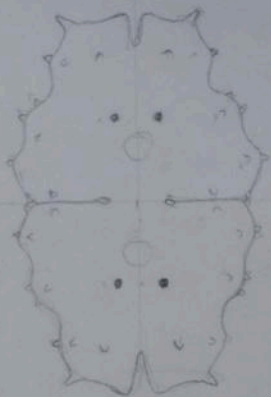
L 48 46
W 31 31
I 9 9
T 18±

E. oculatum B. & Ges. Fa.

✓14

✓14

20x44



approx.

3 seen

Uganda 1

Jan 30/59

L esp 47

W esp 42

I 12

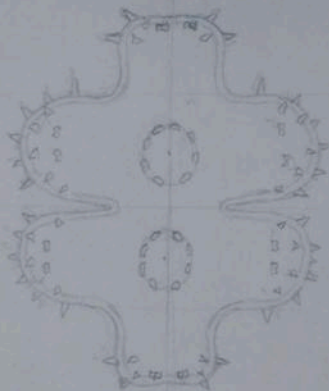
T 22

E. sphyroides fa.

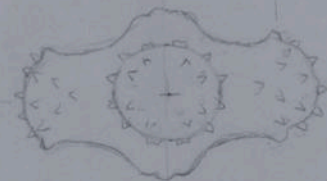
125

Fig 21

20x44



Details not clearly seen



Uganda 2

Feb 8/59

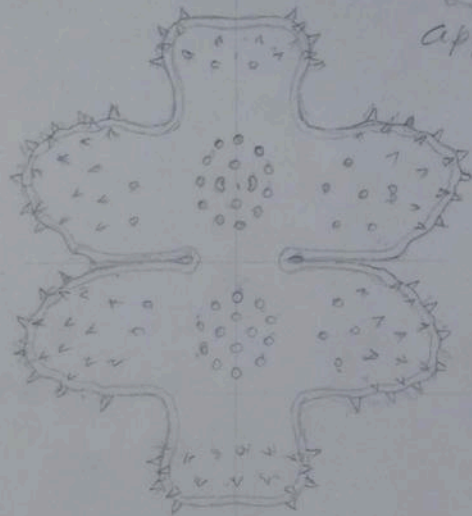
L csp 62
W csp 58
I 13
T 24

E. substellatum Fa.

135



20x44



= fig 20

Uganda 5

Jan 18/59

L semicell 483 = 966

W base 39

W pole 27

Pl. indicum (Grun.) Lund ?

[= halocella v elongatum]
OK per Scott & Lellie

5x44

Not sure whether granules or not

Old semicell in poor
condition, and
coated with mucus
& debris.

Uganda 3

Jan 11/59

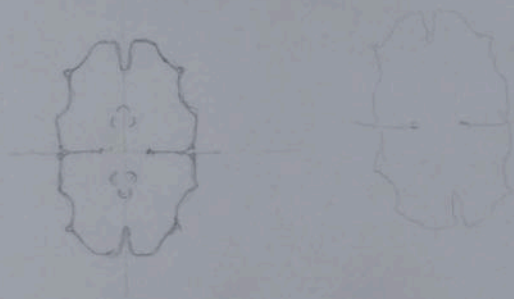
L 27
W 18
I 4.5

E. elegans fa.

[95]

(95)

20x44



Uganda 5

Jan 29/59

L 32
W 22
I 6

E. elegans ~~var. compacta~~ forma

103

[103]

20x44



RR

Uganda 3

Jan 11/59

L 37
W 23
I 8
T 18

E. wetkemudleri (Ducell.) fa (11-5)



202.44



Uganda 2

Digitized by the Hunt Institute for Botanical Documentation

Feb 7/59

L 150
W base 12
W pole 10

Pl. minutum (Ralfs) Delp.



10x44

1 seen

Uganda 5

Jan 29/5

L this semicell 300, other 264, total 564

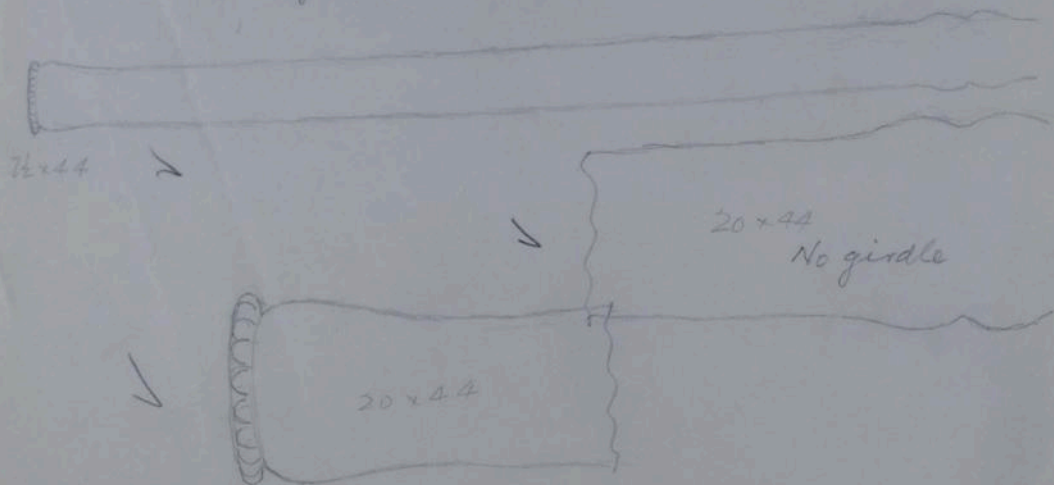
W base 27

W pole 23

I 24

Pl. subcoronulatum (Turn) W & W v. *africanum* Schw.

Margins very faintly + irregularly undulate



Uganda 5

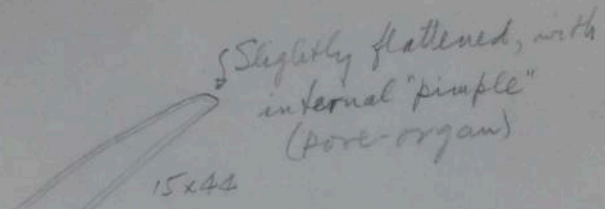
Jan 17/59

L 291
W center 20
W pole 5

Ch. dianae Ehrbg.



5x44



About 9 or 10 pyrenoids per semicell
Wall smooth, colorless

Uganda 5

Jan 24/59
x 430 x 617

L 309
W center 23
W pole 6±

Cl. dianae Fa?

5x44

15x44

x617

Wall smooth
Chloroplast disintegrated

[137v]

Uganda 5

Jan 20/59