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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.

6494

L 60
W 5

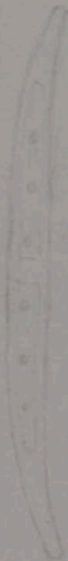
(72 x 5.5)

Clavicornis

on NW 20

obj. 62

= x $\frac{1530}{1}$



C. abruptum

v. apricorum F, R

f. angustum



6322a

long 430
lat max 0.4



x 320/1

Lake Victoria
Plankton
1917.

Closterium ✓
Closterium
acutabre
subterminum

63224

long 395-

lat max 4.6%



x 320/

Cl aciculosa

var subpinnata !

The median part cylindrical
with parallel sides

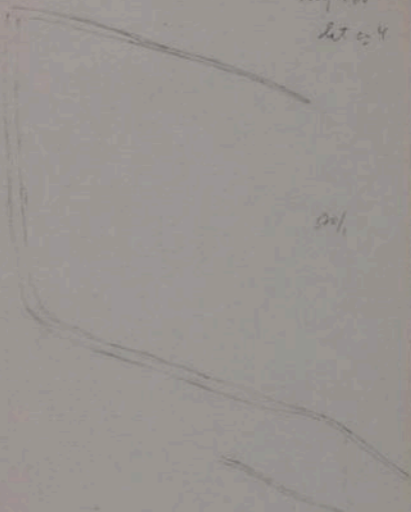
Lake Victoria

VII: 160

GJ22

long 430

lat 4



20/1

"C. acic. v. subvaron" 185

Lake Victoria, Blankton 1854

by S. A. Lind

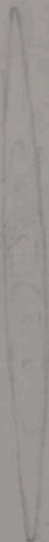
6503

L)

a)



apex truncatus



[70 x 55]

1530
1

cf.

B. aculeata var. *latius* G. & P.

Uganda. 4.

6439

long 1094 μ



1/20/1



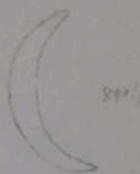
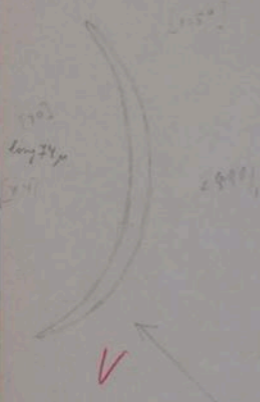
Clusia longistylis

v. Borjoi D. H.

Uganda 1934

6233a

6233b



Clat. in caracum

Uganda No 4
1902

Clat. navelan - angastu

Uganda 1907/1902
1-3

6303

long 17 μm

(width approx 12-14 μm)

[100°]



100/



✓

[venous]

C. on carum. ✓

Alfons 1954/204

6235

Long 426
width 60 23

longitudinal section



P. baculoides
(R. B) Playf.

20/1

~~*H. tuberculata* f.~~

Uganda 1954/1955

P. cyathodica = *Stuhlmannii* (Horn) King

number
longer at
coll. later
p. 100

the other way must be!

100/

Long 1300 p!

let her be!

xj

6238

long 4254 μ
lat. 200 49

520/1

of *P. stellatum*
P. stellatum
- *stellatum*

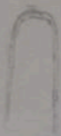
cf. *P. parallelum*
cf. *P. parallelum*
- *parallelum*

P. stellatum
P. stellatum

Lyons 1954
No. 5

6313

long 221 μ
lat apic. 5/8
Spiral lat = 90



1460

T



590 / 1



Pl. minutum

v. elongatum



Uganda 1957 / N25

T 5-6

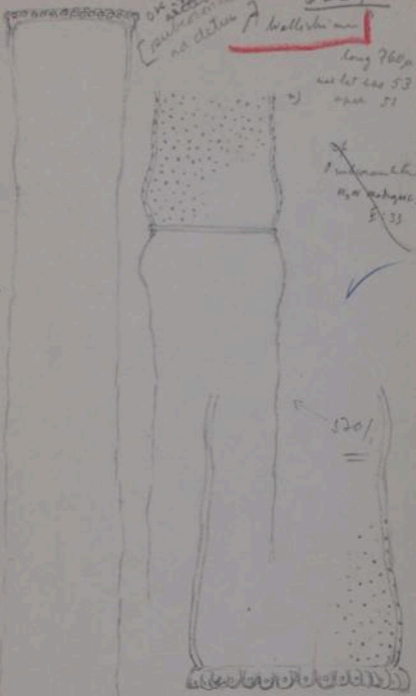
6239

OK
[cauliculus
no detour] A

Wallerstein

long 760p
width 53
open 51

~~P. ...
H. ...
E. 33~~



✓

✓

520/
=

520/
1/23

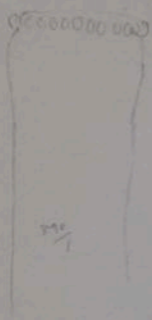
✓

Uganda 1914/1915

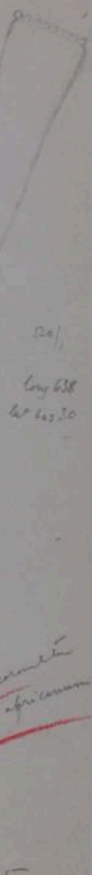
II-17-18

x)

6240



120/1



120/1

Long 638
Wid 625.50



Ph. subcordata
var. africana

Uganda 1954/1955

6236

long 988 μ

let of basin

42

Prolec. 8)
Plumet (P. 1000)
f.

530/



[Prolet 5

5-9

6601

apex truncate
thickened

[margin not]

[margin v.]

Pl. maximum

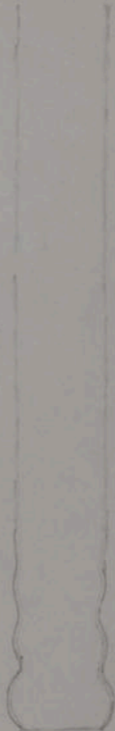
(see also
P. indicum)

[= *Trabea v. elongata*]

not umbellata

not umbellata

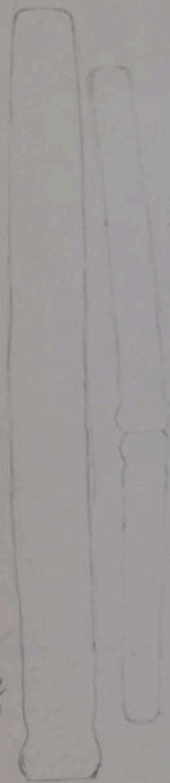
1 2 3 4 5 6



120/1

6234

long 247
max lat base 18.4
lat apex 14



230/1

Pleurotrichia

[was rectus]

[because of size
& prominent basal
swelling]

230/1

Uganda 1954/1955

6242

long 39
lat. approx 29

Suaveolens 2x



27

E. divaricata ~~var. *puberula*~~ ^{nganda n.r}
8/10/

~~cf. *E. tricaespitosa*
E. flammula
- ? -~~

Uganda 1924 / W 4

I - 27

6615

29 X 19

cross + 13
with 6



1370

E. elegans f.

[var. *composita* f.]

Fig. 3

6344

29 x 20
27 x 18



✓

1999 to present
[unclear]

1460/11

U compactum f.a.

En algas v madagascariensis W. & A. f.
Madagasc. VI: 18

cf. *U. lutea* Aublet

Uganda 1954/1453

6241

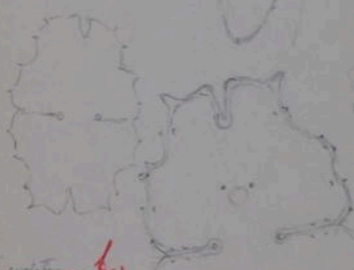
long 42
lat 28



} central part of leaf
+ lateral



290
/



1500
/

4. E. ovata f.
v. trigona
Eubrid, 1882
p. 100 f. 2?

Ess. & evolution Botanica
of Scrub's fig.

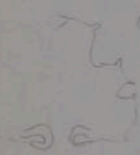
Uganda 1954 / No 1 Lake Bunyoni

6304

long 60
lat 37



630/1



cf. *Escaia praemorsum*

~~*E. oculatum* f. *Schindleri*
Vahl, *Stuhlen* II 28~~

S. simpliciss

v. nov. (= *Ambodi*)
(S. 78)

Mzamba 1050/ N: 4

6488

long 15 μ

[7-15 μ]
[20 μ]



$\times \frac{1550}{1}$



cf. *E. dentata* f.
E. pseudobaldii f.

Uganda 4

6244

long 57
lat 32



cf. *Euc. symplocos* Merr. & N. Madagascar E: 11 (f.)
 In form californica var?

(see *triplicata* = *concolor* Schmidtke Vasc. Kuhn R: 37)

E. subcrassum F. R. fa



Uganda 1924/11 ✓

6245-

long 54
wt 41

clava fasciata
i typ.

8201,

examined on 2 x

Eutele sphaeroides f.

cf also *Schmidia* Volk., *Strobilium* III 3

cf *E. hypochrysdora* det W. W. Metzger, III: 8
over?

Uganda 1950 / 402

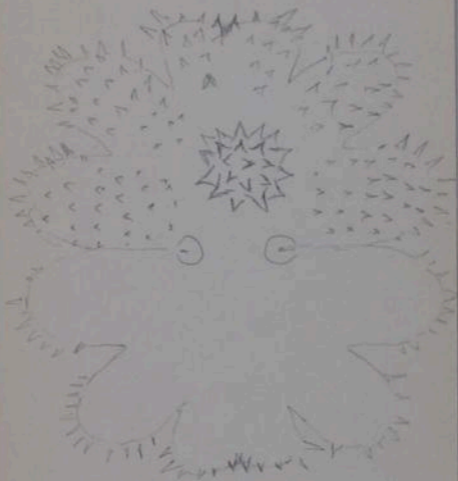
III-31

6247

long 108

lat 103

[lat 20]



✓

890/1

v. lindae n. v.

La spinulosum ~~Ugandae~~

Uganda 1954 / No. 4

6246

long 99

suaventa ex

cross 49



Bo/11



See *Opuntia* ^{Yuidae} ~~Yuidae~~ #
another individual

Uganda 11-4 / 1957

II-321k

6243

long 46

lat 36



surronata
cutis 2x



2x



red

cf

~~*Ela acutifera* var.~~

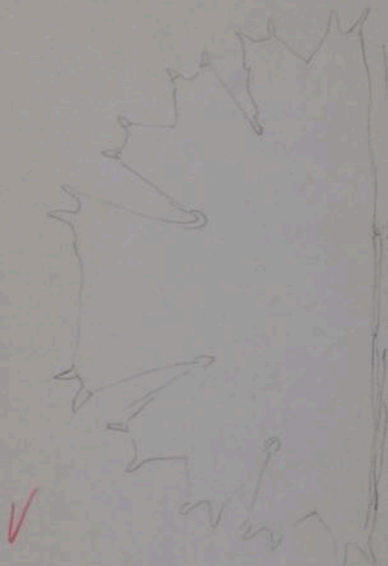
truncatifera W. & A. Tanganyika 8711-3

Uganda 1954 / 224

II-24

6259

long 146
lat-126



M. amblyensis f. *latiloba*

~~(of *M. ...* f. *occidentalis* Vlt)~~ 900/

Krieger
S.F. 103: 4

~~...~~

n. f.

Uganda 1950/102

(= *amblyensis*)

6256

long 84
lat 92

187/3 6A

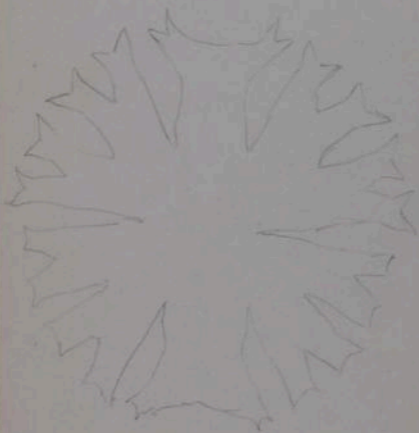
C. M. Maxmiliana v *sigala* Arch. 1932

of *M. canaliculata* v *minuta* S. Ind

Micr. radians var -

Crest melit v *minuta*

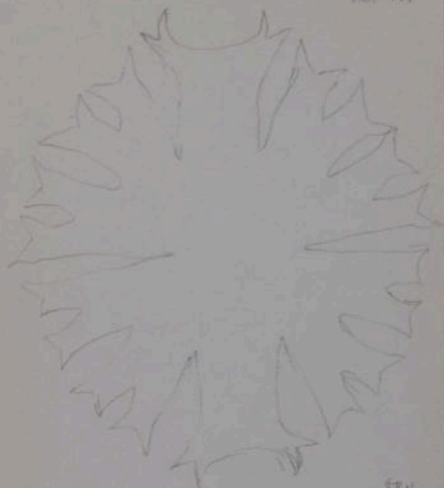
800/1



Uganda 1954/1033

G 255

Long 110
lat 101



110
101
=

M. radians f. (minor)

cf. *Boissellii* & *Boissellii* 1949 p 185. IV:44

m. and rubra var. - *m. and*

cf. Rich

legende 1924/104

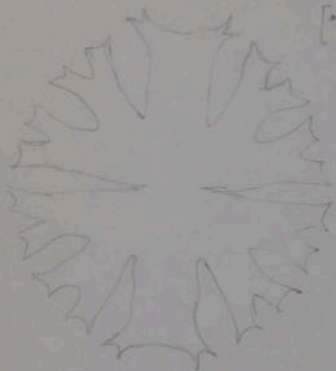
II - 35

6257

Long 93 μ

Lat 76

[altova cultiva
long. 76 μ]



MO/

cf M. crum multiforme var. novum Turm. in Fed. P. 402
Stomachen passer fra!

cf M. crum radicans? (from the rabbit's skin)

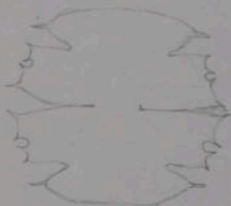
Uganda 1954/025

6257

long 46 μ
[24 μ cat]



What is the difference between
M. zeylanica and *M. decumbens*?



M. zeylanica (decumbens)
590/
etc

~~*M. zeylanica*~~ ?
~~*M. zeylanica*~~ ?



Uganda 1954 / No 4

6249

long 53

[52 or 100]

✓



8001

(the decumbentata? - var.) ← HTC for

✓

(or the replamiae f.?)

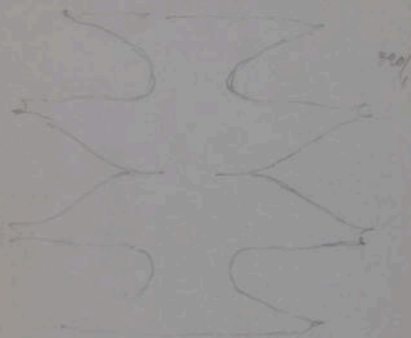
Agave 1930/ No 4

II-33

6248

(long 73)

[52 in lat]



500/

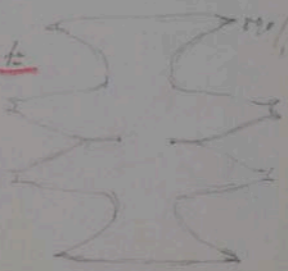
Uganda 1954/W:4

M. pinnatifida f.

4 var. in uniformis
n. a. shape
5.5

(long 57)

[57 in lat]



500/

Uganda 1954/W:2



1584
/

Sambucus nigra L.
Clusia alata L.

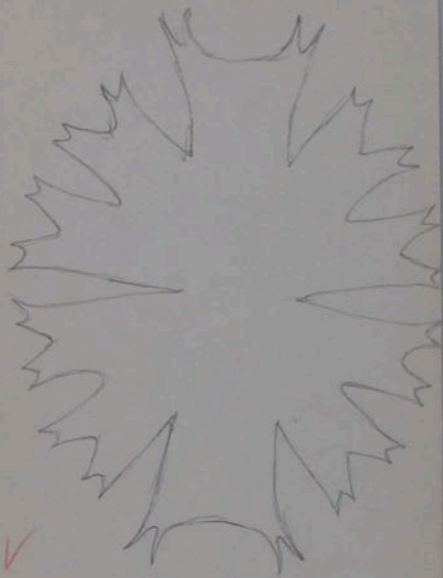
Trachelium myrsinaceum
Benth.

SW. Africa (and Java 1844)

6584 6

[120 x 94 mm]

HT 26



✓

Mim. *tuberosus*

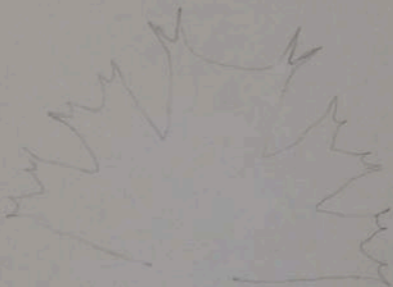
890/1

1/10/1922

VERTE!

6258

Long 96
Feb 97



890/1

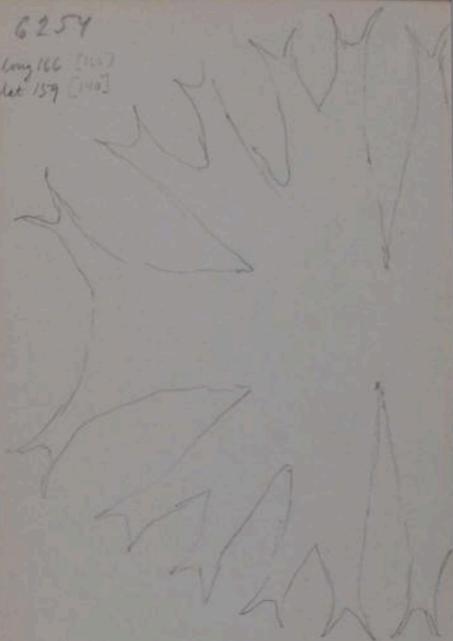
of Lake Umbazi!

as *Rodias*

Uganda 1954/1955

6254

long 166 [167]
lat 159 [140]



111 radians ? (major)

radians V

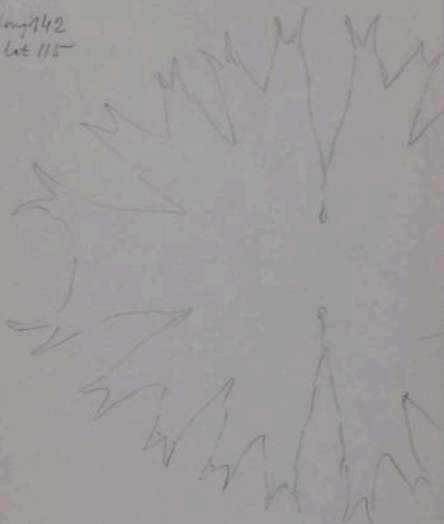
800/1
=

Uganda 1954/1124

III-27

6254b

long 142
lat 115



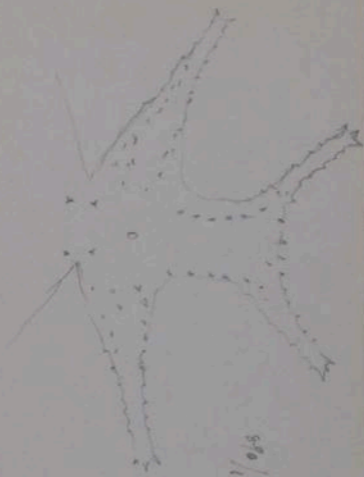
M. meridiana

8901

Windsor 1954 / 1024

62,60

long 124
lat 106



V

1/0/5

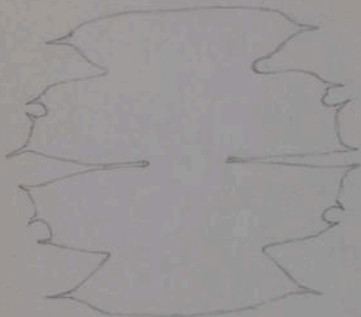
M. a. d. f. = L. b. b.!
near ambodiensis n. v.

Uganda 1954 / 0024



III - 43

6250

long 40 μ



1460 / 1

cf. *Miconia Zeylanica* 
Miconia Zeylanica 

Uganda 1914 / 124

6252

long 46₂₁
lat spin 50



25901

cf. *M. zeylanica*? f. ?
~~localis?~~



Legende 1927/1928

6253

Crass 28

lit 62



598
/



Miconia zeylanica f

Uganda 1454 / N34

III-42

6495

10 (112)

L 17
W 15

28428
1



1150
1



1150
1



~~C. bicoloris~~

E. Tamilan?
P. Malabar!

1150
1



Uganda 1114

[IV-20-11]

6271

lc (165)

long 23

lat 20



1460/1

C. dichondrum W & A *lc*
Madagasc. III: 12

W & A 1460/1

6492

12 (165)

20x17x13x7



1530
x 1



C. dichandra W. W. Keck & S. S. Keck



cf. Rosko 1958. [? ref. :]

Uganda 4

TK-57-46

5607

6270

11.78

long 15

lat 15

cross 9.2

[11.2]



1400/1



Cosmos - lipensis La

16/2/1954/1951 Lake Baringo

6517

10 62

long 60
lat 44
(136v)



C. constricta

890/11



a vertical
elliptical

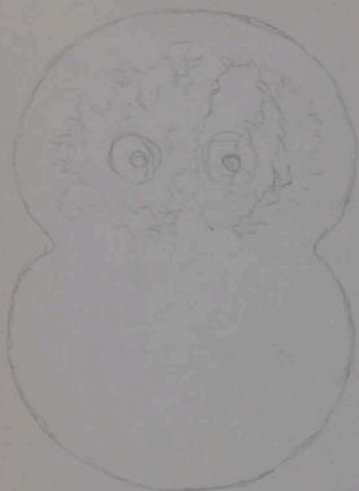
✓

Uganda 1954/034

[III 51-52]

6496

140 [62 x 45 = 279]
[22 46]

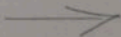


avertic ovate

$\times \frac{1150}{1}$

Cornu-cornutum

Uganda 4



VEDIE

6496



6. 1st view

x 1000
1

My 1st
at 10/20

VERTE!



Fig. 4

6261

[30x17]

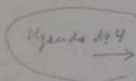
long 53

lt 30

Curtum
var. attenuatum?
a)

antest. >

of *Corn conicum* M. & W.
Motschulski No. 12



2 vertice
circulare



✓

of *Perium australe* Loc.
f. *perium* M. & W.
Tanzany No. 12

[32x17.5]

1960/1

improbabile

b)

long 53
lt 32

> Cosmarium

of *C. Curtum*



1960/1

Hypocrite 194 / No. 2

6609

L 30
W 17-18

(177)



v 1530
1

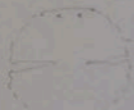
~~C. *subferax*?~~ ✓
curtium f. (det. A. S. Hitchcock)
 no! R.G.
 not thinner towards the apices

C. curtium v. *latius*
 n. var

Uganda 2

[III-45]

6274



890/1



long 25.5
lat 23

✓

860/1

10-1143 (258)

Coccoloba var. *ornata* W. & W. ¹⁹¹²
Tanjung, II: 8

C. taxichordum 10 (1912)

n. var.?

[cf. ^{psidium} var. *amblicocae*]
2. v.

5.141

see *Coccoloba* 190 = 205



[1110x]

Legamba 1954/03 4

✓

[5-94-95]

6326

long 39
lat-39



C. depressum f

Small

Lake Victoria Plankton 1954
by S. M. Howard

6330

C. depressum (plac. with 4 papillae
but not on papillae)

[16170]

long 46
lat 46

C. contracta f.
long 22



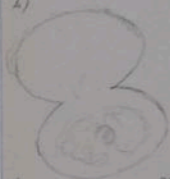
890
1

890
1



4) [162]

[38-30, 1112]
891
1



✓

long 39

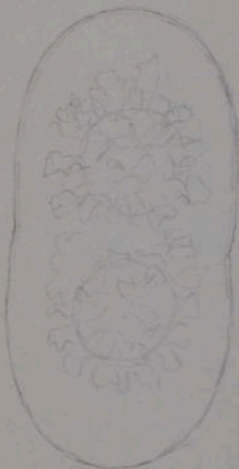
C. contracta f.

Plankton Lake Victoria 8/50 4/53

6600 (= microphoto 133)

[60 x 29]

no apical
thickening



10/50
1

(of *L. Ambadi*!)

C. diploporum!

What do you think about Tilling's
"new" genus *Antiantanion*?

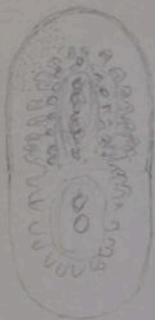
Shall we use his proposed nomen-
clature? or would you like *Cosmion*
lutea?

Uganda 4

[11/19/71]

6265

long 64
lat-33



1200/

Cosmar. | diploporum ?

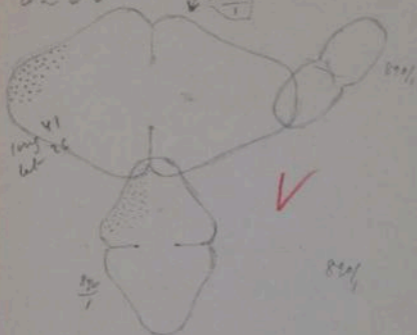
cell wall at apex not thickened

W. G. S. 1904 / 104

6266

12.40

↓ x 1000
1



long 41
lat 26

89%

120
1

89%

C. variolata var

of Schmidt 1898 *Valley Studies*.

C. nematanif. pyramidif. E: 47

(*C. ranceyungense* Turcz. 2-7m \bar{x} : 43)



long 32
lat 20

1260/1

Algeria 1954 / w: 4

6441

37

[40234, alt 11]



1530
↓
1



[38 x 53, alt 4]

1460
↓
1



two specimens!

U. Schumiddei v. nov

C. Hammeri v. *homoblastema*?

cf. *C. galeroideum* v. *retudum* M. W. Tanganyika east
alt = 6

Uganda No 4

= *Arabid.* 5157

5272

10 756
159

long 28

lat 21



1460/1



cf *P. hexagonum* A.D.E.?

SW. Brasil.

novae sp.?

avertic?

Uganda 1954/0024

IV-697

6276

10/30

1953
10/30



8701

cf C. melanosperma Schradt

Volkz Station II 28

a vertice



Uganda 1954/10/30

6275

long 32
lat 32

10-15



✓



Y 710
11.15.12

100/

?

Uganda 1954 / No 2

6599

= *L. Anambiki*July 11th 1933*C. lanceolatum*+ *Tournefortia* n. sp.cf. *Panicum Ulex*
v. *africanum* Schum≡ det. elongatum
v. *africanum* (det. T. G.)

but sp. is not

comparably
verruculose!


sp. det.
smooth, not
verruculose

x 1000
—
1

Panicum *Ulex*
elongatum
var. —

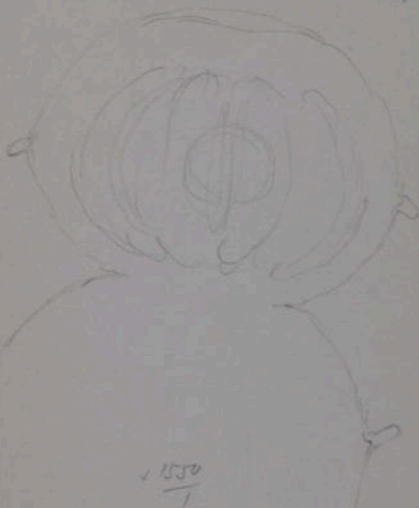
Uganda 4

12/28/60

67856

C76V99 + stamp
53 +

1 specimen!



1550
1

Cosmos lobata

Myanta 4

6285e

(25) (60)

long 62.1

c. papill. lat 55

60-11 - 107

2 pages!



600

1

✓

Cosmaria lobata ?

of Ghl. Brazil (fig 122) see page - 2!

C. lobata & elliptica Fendler & Reiche 1937 p. 162

1142-N

Algaudo 1954/V:5

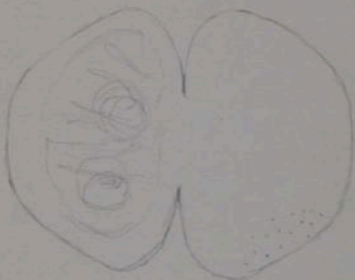
[111 - 53]

This agrees with *Arthrodesmus Fuelleborni* Schm. 1902,
p. 70, Pl. 2, Fig. 3.

However, I think both Schmidle's plant and this one should
be assigned to *Cosmarium*. Cf. *Cosm. lobatum*, *C. contractum*
v. *papillatum*, *C. quadripapillatum*.

6611

[45x36
with 12]



1550/
11

Membrana conspicua
serulata

7 Jan. C. Lindell, 1885
10 "

U. Lindell ?

6612

5-12
02 26

L42
W36

cf *P. malin* var. *...*
but different



1530/11



cf *P. subthalitrome* v. ⁽¹¹⁴⁾ (Stoll?)

Racib. Newborn.

Uganda 3

V: 40

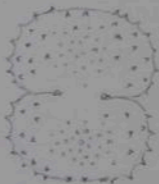
[V-100-101]

6345 - = 6612

long 41

lat 34

in cutis non bene
sculptis micribus
inter granulis



890/1

Uganda 1950/133

6346

long 55
wt-46
id-23

✓



190/1

9 *C. scabrata* W & W
Mabey & ~~W~~: 97
id non!

~~*C. multiseptata* W & W v. *aggregata*~~
Gylden

0 - " - - - -

Bonville & Mangin 1949 ibid: 46-47

Cf. *Shujin*, Burma

Uganda 1954/223

[IV - 61]

6614

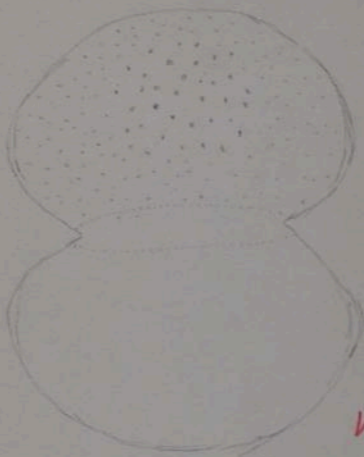
8

[58x96, with 24]

of cross 32

C. profusula - *tenjia*.

Shuji, Burma



✓

1/0.51



Herb. 3

Fig 629-6

6311

60

long 37

1st 21



8001

P. moniliforme

✓

nearness to ~~the~~ 2x

Uganda 1954 / MS [III-47]

6331

long 33 (2 17.5)
12.5 11.5



900/1



C. ovalifera
var. parvifera

Blaukitten Heteris Lalle "8/10" 1/12"

1605

long 16 μ

a fronte

[cf. *C. papiriforme* & det
which is long = 63 μ]

just below (15?)
12 4



cells twisted at
reticulation

cell wall very thin

2428/1



a fronte

C. musciforme ✓ *subpyriforme* ✓ H. V

H. V

Uganda 2

6267

11. 20

long 39

lat 23



501

?

Corn. Nymanian var. ?

Uganda 1024/402

XI-

6348

long 84
lat 69
int 29



20%



890/1



✓

890/1

✓

C. paradoxum Turcz

(Schwille 1878, II:2)

~~C. parvum~~

This is not the same as in L. Arabidi!

Uganda 1924 / 1821

granules in mother and pleroc

[v 182-1827]

6264

11-30

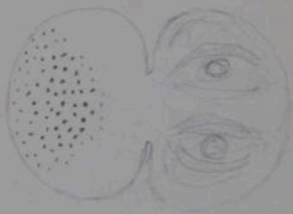
long 64

lat-44

rit 16

(or 10)

membrane quincuncialiter scrib. ulat



se after
membran!

Coron an



820/1



= L. tuberosi

of *C. permaculatum* n. sp

Uganda 1954/10/4

5189

6308

cross 37



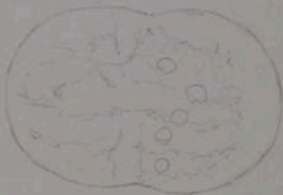
890
/

Corn pseudocornu L.

(11.5x)

of C. zosterium W. & A.
Mobot. Fl. 13

1mg 62
13th 37
Lab 41



1654/1652

6543

10 15

long 48
wt 35
ist 10



550/1

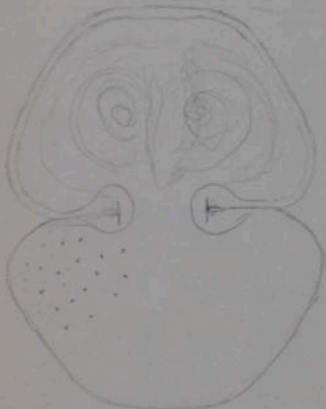
C. mentonitidulum H. H.
+ var. *validum* H. H.

K. G. S. 1912/ U=3

6598

45

(?) [E2]
 L 77
 W 400
 I 12±
 T. 20
 (157)
 ✓



✓

another
 cell with
 chloroplasts.

150/1

cell-wall coarsely scrobiculate

C. pseudonitida Huber v
angustistria

n.v

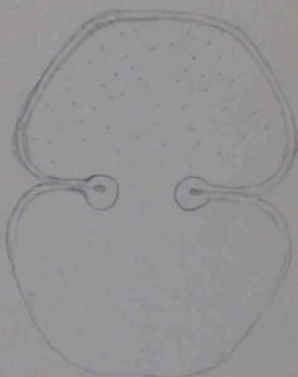
cf *C. pseudopyramidalis*
 or *Bambusa* sp.
 Uganda II

VERTE!

= fig 2019

[48 v 37
p 12]

C. pseudonitidulum



1050/1

empty cell
(somewhat smaller)

→
VERTE!

legenda 4

6504

2528
class 5
w/ 23

long 8₂

[measured with obj $\frac{1}{10}$ / mm
x 100 $\frac{25}{1}$]



2528
x $\frac{1}{1}$



of *C. pygmaea*? ? [10-95]

but: widely operational

Uganda 4

6489

L 10
W 8-9



2428
x 1

of *C. quadrilobus* = *applanata* Rosen & Krieger (109)
11117

✓

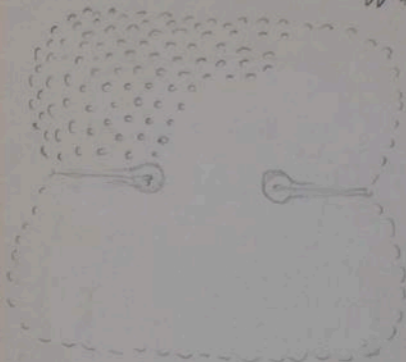
Uganda Y.

[IV 82-83]

6597

11 253

L 46
W 48±



Ullmannia pumila? ✓

x 1550/1 of ~~Ullmannia pumila~~ ~~N.W. Thompson~~
of Secret USA! VII: 9

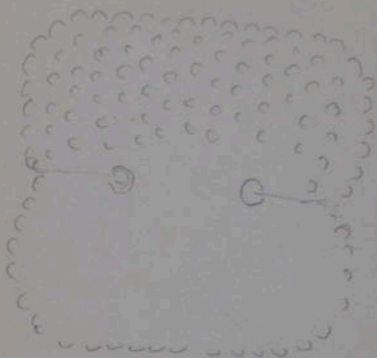


Uganda 4

6502

10 2 73

[44 x 46, int 11m]



x $\frac{1530}{1}$

f *C. pseudo-herosmi*

Uganda 4

6621

L 17
W 14

col
com 31102

Cornu Reymellii v. chondrophorum Steija
Burma

f minus

= Anabadi

5.180

2428

1



✓

Uganda 4

[TV - 88 - 89]

6505—

16 x 135
4/6 45



$\frac{2428}{1}$

of

C. regnellii = 6621 (?)

(*C. polygonum*)



$\frac{1570}{1}$

legenda 4

6440

12 x 12
2527
C. 2008



1480
—
1

♀ *Corn polygonum* 3-96
repullit

Uganda No 4

6608

1511/1511

L 32
W 24
I 8-9

of Fig. 10
Rozema Rad. - at St. Louis 1915
[?] no 2002!



2428
+
1

✓

of Chamber
v. africanum

C. retusum La

in Sp?

avertice!

—



1530/1

Uganda 2

[II 807]

6506



9.2 x 10.2
cross cut 5
width 3.2

$\frac{24.80}{1}$



new?

cf. *C. sinensis* v. *obtusius* - 10 100

Figande 4

[IV 72-73]

6622

long 8 μ
width 5
height 3
diam 5



2428
x 1

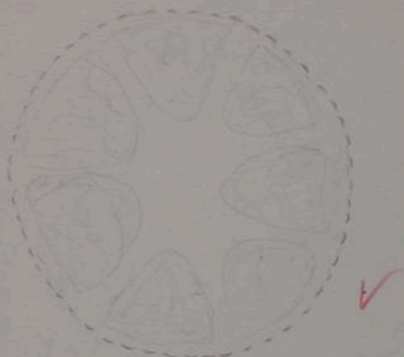


^{4?}
[*C. spirochloa* W. W. Metaxas ??] 10 (172)
"var. glabrata" ?
- (*C. loidgei* Fretsch & Rish) 10 (95)

Uganda 4

[IV-70-71]

6607



1.50 /

Cosca striolatum

a vertice 7 parietale

fillosi apax
destruere

Uganda 2

[y=105]

6257 ^h

long 76

wt 45



1000



= C. striolatus

~~C. glyptodermis W. & A. Madagascar. III. 33~~



Nganda 1954 / 1002

6277a

long 78
lat 48
ist-37



330/

2 possible
isolate



membran structure

W₁ is an error when
describing the structure of
the cell-wall

normal for pericycle

~~Calyptra become W₁~~

> low stimulation?

~~I cannot see any essential
difference between stimulation
and Calyptrae! P₁~~



Uganda 1952/1002

6606

ic (5)

ic 5

51745-40
20 30°
6 31°



1550/1

of *P. tuberosa* Walp.
in Rich 1932, 9A

Walp. Malagasc
fig 21

at epaxial center
and round

V



Woodward 2

[71-54-55]

6268

100.5)

long 55

lat 50

ist-34.5



190/1

cf. *C. subaristulata* K. W. Meisner II:31

Rich 1932 p 122 f. 9A

-4- f. *Schubleria Myrtacea*

I:24

190/1



long 46

lat 41

ist-29.6

cf. *C. auriculata* var. *bagariensis* Bernard
in *Annals & Magazine* 1929 p 186, IV:48-49

Uganda 1958/102

6499

10 (101)

L 15

x12

10/10/55 }



1550
1

of *Cosm. subdesiccum* Hort

of *C. adropita* Lind

Uganda 4

6273

smooth

long 31
wt 30

a vertice?



~~lyctus~~

~~C. treubii Raub.~~

1904 f 37

80/1

~~C. papilionacea (G. Don) Fernald, Arch 407~~

192 f 15 E ?

C. subrotundata Raub. ?

Uganda 1954/55 2

10090

6265
= 6307

Aug 29.7
lab 25
[" 7]



5/11



~~C. galleana
var. retusa W & W
Tanzania VII: 6~~



C. mitchellii f.



Uganda 1957 / No 7 Lake Bunyari

6307

(= 6265)

long 23

lat. 21



1460
/

cf

~~C. palustris~~

C. multiseed f.

1046

Uganda 1954/1021

[1046]

6604

10 13

long 25 μ

rad 24

wt 7

class 13



of *Cosmos subterminalis* f.
 seed minus epichloral plus nodularities

1550 / 1



Uganda 1

[18-50-87]

6442

10 25

long 9.2 μ
sub 0.7
at 2.5

1840/1

subtilissime inconspicue porphy



2 nuclei ovate like protuberantia

of *C. minorum* but much more rounded angles
 of *C. tenuis* but considerably smaller and
 semi-cells more rectangular

f. minoris

Uganda 184

6603

11-25

[13 X 13
25 + 6.5
Gram 6.5]



x 1500/11



C. Tenue " f. hemisphaerica "

[on Stat. list = C. tenue f. tenuiculum nf] ✓

Uganda 1

[IV 84-85]

6342

25

long 12.5
lat 12
cross 7.2
wt. c 4



11/60/



of C. lance (var. ?) *T. lance*



Uganda 1950/53 ecc!

6610

11 25

{ 13013, 10116
on 7m

Cosm. lancea

"fg. tumidum"



• ventral

1500/
x 1



• lateral



1500/
1



2428/
1



1500/
1

• frontal

6269

long 21
lat 23

[n = 4-]



1420
/

cf ^{no. 1} *P. Doigii* F. R. 1937 p 182

C. thryphorum Ndt 1880 ✓

cf

~~*C. thryphorum* Ndt f.~~
N. of Madagascar. $\bar{x} : 26$

cf *C. pilosum* Boege *Saot Paulo VII : 1*
- var.?

[16 x 16, 22 11-pm
with 5-]



1530
/

Uganda 1954/w 4

[IX 92-93]

6491

[22 x 26 mm
1967
Grav. 13]



✓ 13.50
1

?



new

= or 6269
reduced?



4 C. *tillyardiana* (1931)
v. *depressum* new (1932)



Uganda 4

4 10 93-93

6318

16 (37)

long 19
lat 25



1400/1

C. subhassleri Rich 1935 p. 140

fig 13 A - E on p. 137



Uganda 1954/55 4

6262

136

long 60

lat 28

[est c. 15]



a surface
circular

1890/

(com. zonation / ^{guttur}jeramica Pac. Jua.

~~Erythronia & compressa Schum. 1890 [13~~

Uganda 1954/ ac 4

6490

L 9
W 8



2488
/



(249)

omit

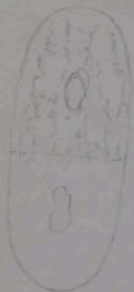
Probably equals 6506 & 6622
without granules observed

Uganda 4

OMIT

long 65

lat- 26



9901

nulla insular
mediana!

?

Perian?

Corolla?

Uganda 1954 / 032

6278

conv spin
long 106
lat 99
ist 21



X. aculeata L.

520/1

var *desfontii* Ray f. *africana* Schindler

Veget. Stätten II. 8

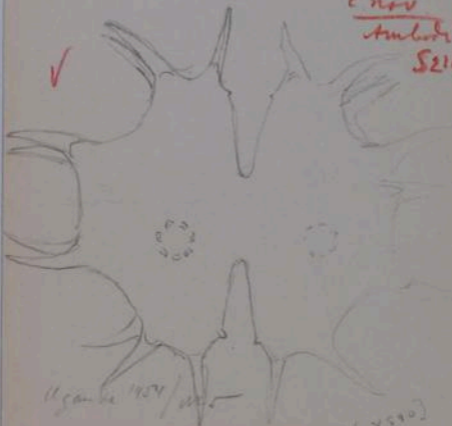
X. subreticulata v. *africana* (Sohn)

c. nov

Ambodi

5214

✓



Uganda 1954/55

(x50)

[v. 197]

6320

10-4

long 40
exp lat 78



5901



of *D. curvipes*

~~curvipes~~

Kyanda 1954 / No 4

[V-111]

6613

1c. F

47780 n 2
+ 46-
158 12

a

~~Anthod.
conspicua~~

✓ 4890 / 1

b

44840
"C"
Corn. depressa
f.?

or

✓ both consp.
f. incana 2

f. minor

↓
[transferred
to C. depressa]

4890 / 1

Algeria 3 (v. 112, v. 113)

6280

10-2

long 32

lt 57



920/1

conocarpus

Uganda 1954/1955

[Fig. 118]

6616 ♂

10291

L 61

WSSP 55-

CSP 90

[1st-15]



A. maximus

v. africanus n. sp.

8901

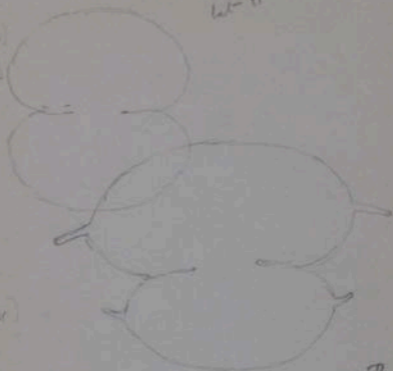
Uganda No 4

6284

10-f

long 46
lat- 41

(u)
[disposition]



(x)

long 50
lat- 74

~~cf. *Cyperopsis* / *alticornis* (S. *cinerea*)~~

mirza

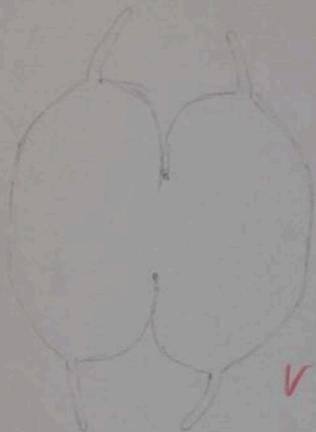
(a convex v. with foliaceous part)

Uganda 1954 / no 3

6283

lc. (9)

long 69
c. sp. lat 97
20
20



see / 1

A. macrocarpa v. *afri-carpa*
Species not acute, thick

f. obtusispinus
n. f.

- sp. - ?
Anther [conspicuous] var -
(Coomes? lobatum)

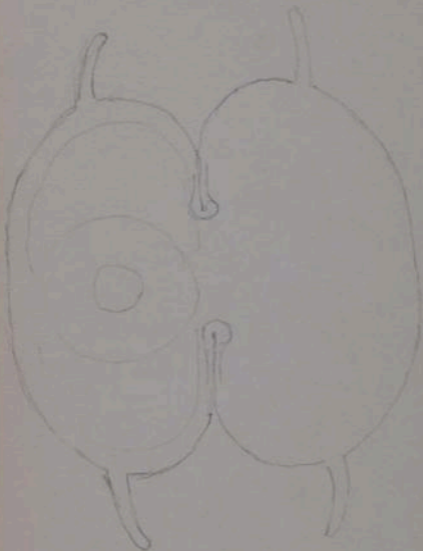
Kiganda 1954/1954

6616 a ✓

10 (9)

53 x 70
x 50-
1st 10

Species not acute



A. maximus v. *officinalis* ^{350/11}

f. obtusispinus n. f.

11 gaud. 5

6286

10-9)

long 55
latc pap 69
= 57
wt 12



540/

fl. max. v. apr. of
abtnici spina

Uyenda 1954 / No. 5

6282

10-29

long 53

c of lat-99

200 47



890
/



of Scott fig. USA

A. *trilobata* B.C.

~~A. *trilobata* in Hammett & Mangin 1929~~

II: 28-30

A. *maximus* v. *latus* Jell. & Scott
(USA)

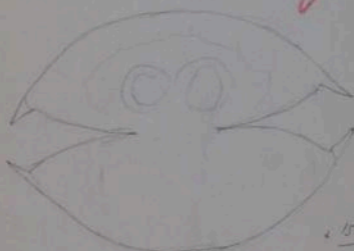
Uganda 1904 / No. 5

(VI-130)

6249 le

12 - (11-12)

[32 x 45 cap
x 37 diam
wt 12
sr 4-5]



15.50
1

A micromelates

Uganda 4

6279

10 (11-12)

long 38

c. 1/2 in lat 57
2-7 [27
was 2]



1940/1



cf. *Anthracium hirtum* f. *minor* Turcz.
§ 722 II: 34

best of also *A mucronulata* Alk.
fr. L. Ambadi!

may be a f. depauperata?
without accessory spines

Uganda 1959 / WES

[x-108]

6619

11-7

[27x41+34

x 27-"

total 11

sp 7-9



1050/1
A subulata v americana (Kern) *A. conopsea*

W, W

Uganda ✓

6281

10-9

long 37
 C. sp. lat 69
 (S. " " 23)
 12 9.5
 20 18-20



590

~~A. ...~~

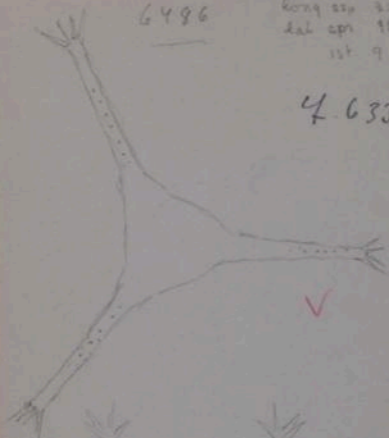
cf also A. imbricatus in Bourzelle & Monyem
 1949 II: 28-30

Uganda 1954 / 10.4

6486

Kong 25 25
Lab apr 96
1st 9

4.6338



2890
1/2890

Sarotima
v. subglab

6338
(=6328)

Long 41
C. pr. lat 96
[1st 10]

890/



cf *Syrasite* v *subornata*
Schmidle *Bot. Zeit.*
IX:1

cf *S. anatum*
v *subglabrum*
W & W
Tanzania

S. anatum
v *glabrum*
n.v.

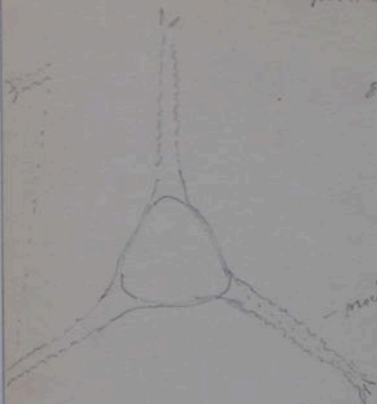
v *subglab-*

Plankton
Lake Victoria
"1/22 4/52"
Coll. E. Schmid

6328

c proc. lat-103

8901



Platanus
latifolia

[*Platanus* proc.
latifolia (Lam.)

Lake Victoria, Uganda 1909

Siamia
usulph

6501

49 x 54 +

x 27 -

Cap. diam. 96

2 1/4

133
1

?

✓

✓

Legend 4

51 · 137-138

S. caracas!

6287

long 23

lat 28

S. clepsydra v. *obtusum* f.

in F₈ R

1932



390/1

No. 14 *S. hyposephalophorum* W. & A. Nees, VIII: 25
(sterile from tree!)

wh Scott!
big

a verticil?
horizontal!



see L. Ankeri fig 6459!

Uganda 1454/1932

6288

long 22
lat 16.5



890/1



sp. Ham. coarctatum + subcartum



diachelypical cells: cosmonia (tricolate)
(rare) stamates (3-subate)

long 22.4
lat 18.5



1460/1

Uganda 1954 / near Lake Tanganyika

6332

long 35
lat 30



✓

8901



✓

4. *S. constrictum* v. *subcinctum* Willd. *Fraxinus*

Plantita Lake Victoria "8/50 4/52"

coll. E. M. Lind.

6291

c 3/4 long 46 | 36
lat 39 | 29
int 22



S. conicalata sp. nov.

Uganda 1954/55

6334

long 35
c. sp. lat 39



8901

✓



✓

cf. *S. conicalata* & *spongierum*

f. latum

Plau. Stn. Lake Victoria "9/00 4/12"

coll. S. M. Lind

6333

long 28
L. sp. lat-48



501

S. camp. ditum

Manhattan Lake Victoria

18/50 $\frac{1}{12}$

6335-

c. 7 long 27
lat 27
106 6-7

200/

Stauranthus
2x

cf. *S. dejectum*



Plantation Lake Victoria

"8/50 4/50"

(x2)

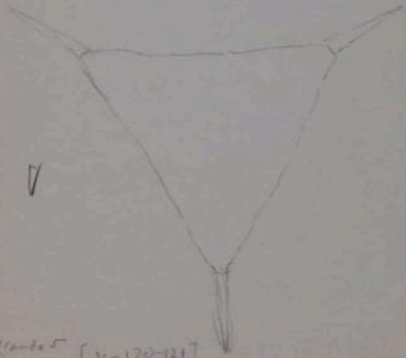
6617

✓



✓

S. dockii var. *africana* n. sp. 1/25/51



✓

Uganda [V-170-121]

6493

37 x 57 +

x 36 -

wt 14

sp 12



450

S. bidlii

v. spicatum

n. var.

Uganda 4

6290

long 35
 esp lat 57
 esp 34
 lat 13
 sp 12



8901,

cf. ~~white~~ ~~indica~~ ~~Turn~~, S. Ind XII: 10
 facies ~~ligustrum~~?

Stems *dictyon* & *apicom*
 m. wood



11 Jan 1954
 W.S.S.

6615

11

Long 30 μ

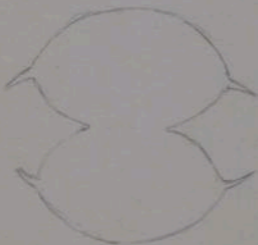
27-292

33+

1st 10, 3p4



1/0.5/1
+



Stam. trichia? var -

f

Uganda 5

47

6010

long 20

esp. lat 21 218

228

23



1450/1



Stem Richard? (mimic mass)

f. Bergson Nov 16:42 sub minor

Uganda 1954 / 245-

[VI-134]

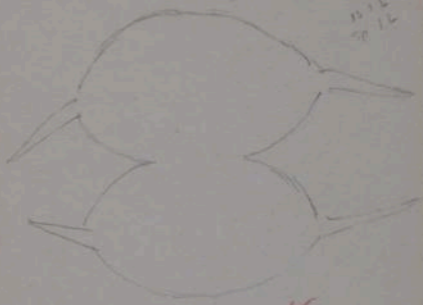
6618

L 35

Wssp 27

CSP 48

11 14
50 16



V

cf

~~P. dichroica~~

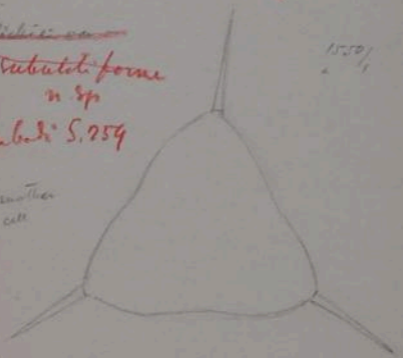
S. tubulata forme

n sp

= *Hamada* S. 254

15.50/1

another
cell



S. dechen
f. longipes

Ugandan

[VI: 135-136]

1643

6595

39 x 40 —
x 48 +
15-12

1850
+
1



L. bicolor
ovata; rana

tab. 2nd



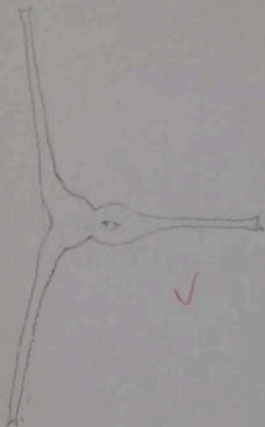
1643

6497

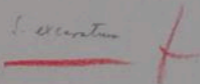
[Sessile com
12.4
c. 14.6 long]

0.56 x 0.22 K20

x 1275
1



S. excavatum

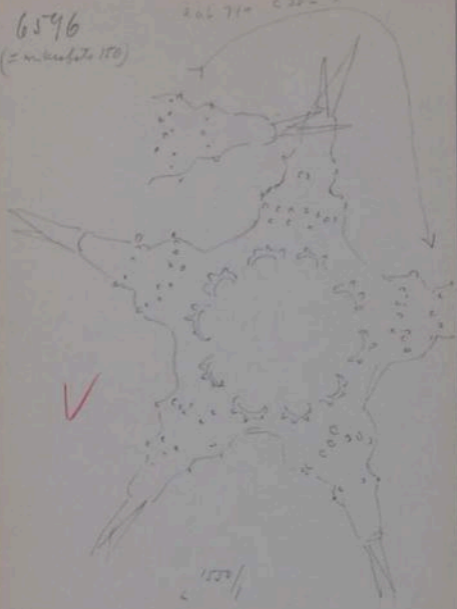


L. Victoria plantation 8/50 4/52 1.6m

6596

206710 C 20-5

(= macrofite 150)



S. trulliformis Selam. & fa

Ucamba 4 139

6298



3901



S. Füllebornii Schradle f. —
reductum

long 41
 c. pro lat 67
 12/03
 39-32-



Uganda 1924/1925

VI 140-141

6314

1 proc. spec. long 39

1 proc. lat - 58

34232 - 1st 2



540/1

S. Fillebornii Solmsville

6314
of also *S. Eikhleri* (Gledit 1938 Bot Net!)

bears some resemblance to this

these two spec. may perhaps be united?

Uganda No 5/4954

6299

long 39 +

lat 57 +

37>20-

15+ 71



590/1



J. Fertilis Schumler

~~of S. E. Africa!~~

Uganda 1950/1951

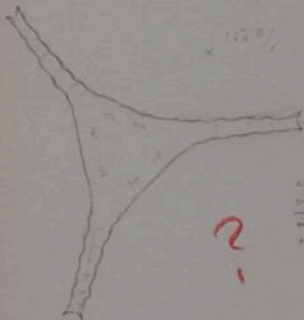
6602

27x40+

23 V13-

BT ?

of *S. gracile* var. *venustum*
S. coronata



133°/1



apical vesicles
very minute but
in empty cells
clearly visible



S. gracile var. *coronata* -

VII. 153-154

6200

10 (160)


C. per long 53
lat 53

[1954]



790/1



cf. *Ham. Ruvandii* f.
furcatus 

Uganda 1954/104

VI. 147

6295

1274

Series Sp long 44

" " lat- 37

53 x 60+

47-15

sp 10-15



50/1

S. polytrichum v. *curvispi-*

of ~~*S. polytrichum*~~ ? new var

another cell:



Uganda 1952/205

S. polytrichum v. *curvispi-*

[VI-127-128]

5909

Aug 39
E. Afr. lat 124



890/1

of *Leptochloa* sp. from the hills, Station III so
but without roots and stems

of West

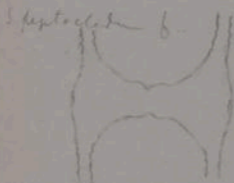
Lake Victoria, E Africa, plantation

by E. M. Lind 2/102 4/103

6327 4



810/1



Lake Victoria

6327



9901



S. leptocladum
f. apiculatum W₂W
 Tanganyika, VI: 42

long 34.5
 cfr. lat-106

f. *S. subv. dli* 1898, III: 20

Lake Victoria, Albertan 1954

det. S. M. Lind

III = 188

6296

size of long 41
c. proc. lat- 83



SM
/

Leptocladum coronatum W. Ha

~~(L. aculeatum)~~

Sp. Bras. \bar{x} : 219

Fr. 11. 2. 1927
p. 208 fig. 284a

Uganda 1924/No 3

6292

(54)

c. sp. long 85 42-
lat 48 12+13



1950/1

S. leptodermis v *ikapooae* (Schum) ²W

of *S. ikapooae* Schumiller (1912) Ny Nyasa

of also *S. leptodermis* v. *suberosulata* Rich 1932
Fig 12 B.

S. unguiformis Ten v. *cruciculata* Fritsch, Rich 1937
p 212 f 27 B

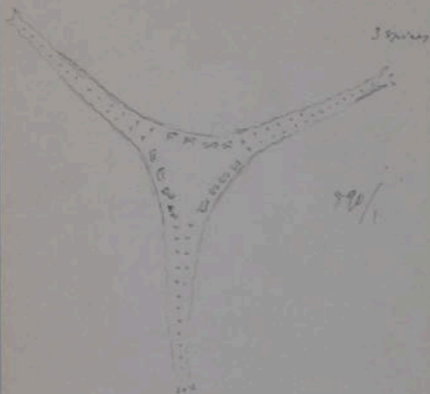
= *Ambadi* S. 243

Uganda 1937/1938

[V-119]

6312

c. no. 64-92



a route?

Hair (longitudinal?)

Uganda 1954/1955

omitted

6521

long 46
c. nr lat 96

an
respirans

898
7



var-
punctulata

of *S. linearis*
Schmidt
Volk, Hadden
T.S.
23 nov.

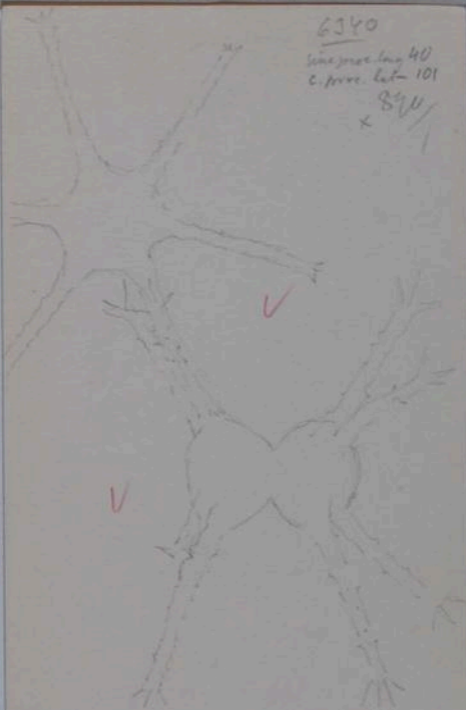


Lake Victoria, November 1954

6340

Same place as 40
C. Prov. lat- 101

x 894



S. limneticum

Planton Lake Victoria
"also" "152"

6339

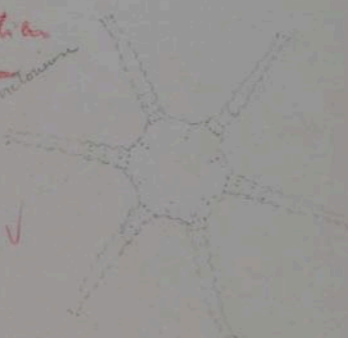
C. pr. Lill-80
Long 37



890/1

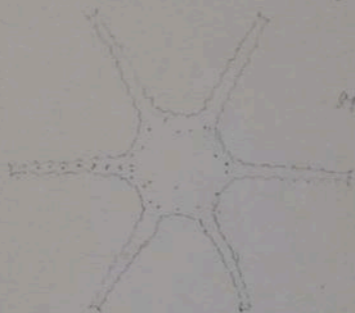


S. limicola
var. *reticulata*



6323

U. pr. lat. 62
[72]



890/1

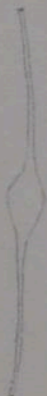
S. lemnis v. victoriana

Lake Victoria Plantata 1924 leg. E. M. East

6337

long 15
chr 4-30

290/11



✓

✓



?

[not on the slide!]

cf *S. quadrinotata* Gylt. Nov. 21
Nov. 25, but different

smaller cells at isthmus:



cf *S. excentra* + planctonica King.

[29 called it *S. lindae* n. sp.
on plate description]

number $\frac{15}{17}$

Plancton Victoria Lake

1/17 4/12

6289

10 46

long 21
c. sp. lat. 37



✓

290/

S. ... of cranium
n.f

✓

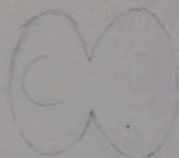


Uganda 1924/225-

VI 132-133

6324

long 38
wt - 25



890/1



cf *S. multicaum* f.

Lake Victoria Plankton 1954

by S. M. Lind

6305

long 41
lat 37

usually ↓
~~there are no
 wants at the angles
 but sometimes a point~~



✓

angles variable
 with or without
 3 wants

Geo /



✓

Stem orbicular or denticulatum Ndt

(~~14~~ Gled. Prunif.)
 S. bidentata

thin rather
 uncommon



[34x57
13-11] ✓

Uganda 1952 / 1034

[V-116-117 above] [V-118 below]

6316

10-20

long 28

lat. 24



890/

V

J. orbiculata v. *Rafines*

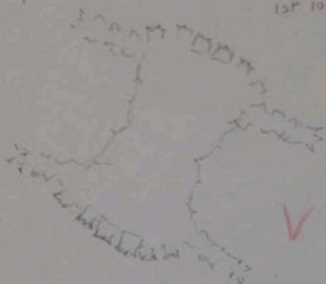
Uganda 1954 / 6316

[V: 115]

6494

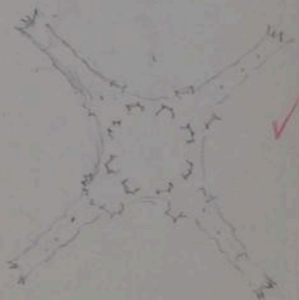
30x374 x c 13-

13r 10



$\frac{1550}{1}$

S. pinnata v. *subpinnata* fr.?



Uganda 4

VI: 150-151

6319

C. m. lat - 28



11660
T

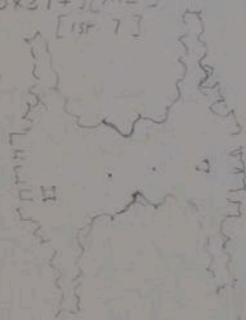


822

~~of *Spiranthes* Turn
S. umbellata, *Spiranthes*
Turn
1822~~

Spiranthes subspiralata n. sp.
W. W. Ceylon, XXI, 33

[30x37+] [x12-]
[15f. 7]



[fa
(bullatum)]



[1550
1]



W. W. Ceylon / 1124

VI. 146-148

6325-

Long 30
c. m lat-50

of *S. gracile* & *ngausae* N. W.

Temperature $\overline{51}$: 10

not to grow!

?



500/1

of *S. plantoid*
& *lusitan*

$\overline{51}$ on 2 to 10

Lake Victoria Plantain 1924

W. M. G. & S.

6498

18 x 23+

13 x 8-

1st 6



$\frac{15 \times 10}{1}$



4 small teeth
at the ends
of the process



Vegan 904

S. pseudotetracera

6306

c fr. long 37 (?)
lat- 28

33 x 21 -
15 13



stomata more rounded "thicker"

OK
890/1 (?)



[14602
1 1]

stomata!

"thicker" than type

890/1

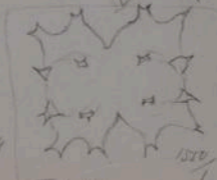
S. quadrangula

(cf. also S. quadrangula - to dens. 11, 12
Tanganyika II: 9, 10, 11, 12)
→ to be reassessed from S. quadrangula!



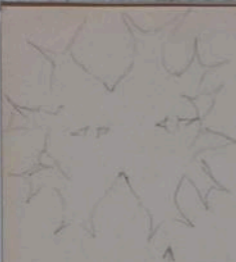
V

Uganda 1914 / 324



1510/1

6309



1460/1

l. pr. long 30
" " lat 30



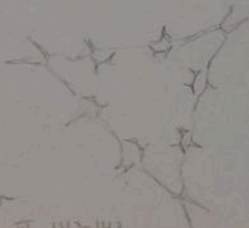
these processes are larger than in
S. multicaulis & *bojerianus*?

cf *Arabidi*: S 266-270

S. forficulata f. a.

cf *S. multicaulis* & *bojerianus* f. *maritima* W. & A.
Madagascar Vol. 121
> at *S. bojerianus*?

S. bojerianus f. *maritima*



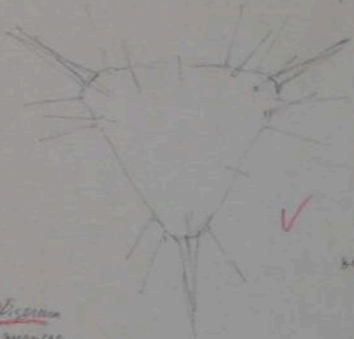
1460/1

Ngamba 1954/1955

113-112

6336

long sim to 57
L. sp. lat 87



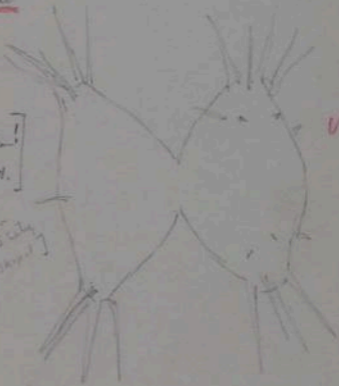
840/1

S. setigerum
var. nyassae
Schumler

Volk, Stahl
Tu: 8

Cf. S. perislophen!
 Gould, Proc. 1.
 = synonym?

[The
 to much more
 about all. 12. 5 July
 + long - shaped]

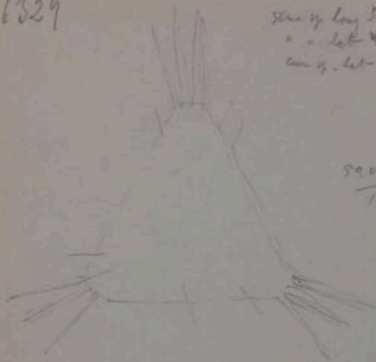


16

S. setigerum var. nyassae Schumler

6329

stem of long 53
" - lat 48
can of - lat - 87



500
1

"setig v. rugosa" 89

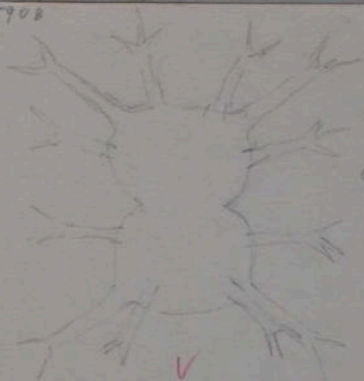
another
cell



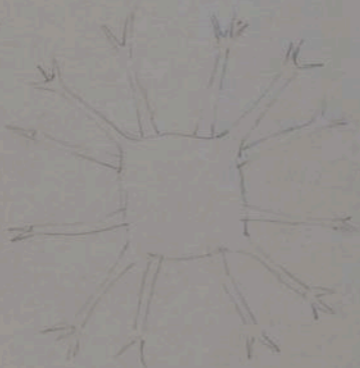
Lake Victoria, Mombasa 1954

Dr. F. M. Lind

5908



c. 10000
long 85
lat 85



84/1

Stenopeltis Haupt.

Lake Victoria, E. Africa, plant.

6347

c. proslong 64
" " lat 62
25 v 20 -
10 22



980
/

✓



1

↓ tothornobolysense top.

✓ Trifurcata

robusta

Sc & Procc.

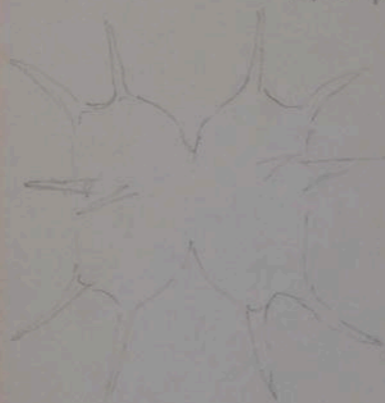
ml con

Uganda 1957/1958

(VI 144-145)

6293

c. sp. long 85
s. sp. n. 53
c. sp. lat-90



090/

cf

S. subtriparvifera f. *bisulca* Schindler (1902)
Hb. Bogoriense

II: 9

S. Wildenowii type

Uganda 1928/205

6620



✓

890
/ 1

S. wildemanii var. *major*



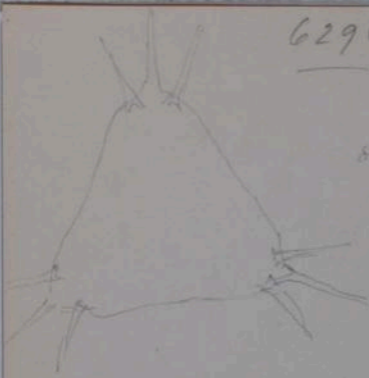
✓

Uganda

[VI - 125 - 126]

6294

890/1



II: 8

^{sub}
S. *trichocarpa* f. *major* Schindler (1907) *Mythos*
S. *multiflorata* Schindler (1908) *Tokoro*, *Uttahon* *Chiva*

S. Wildmanii var. *major* = *Antidi*
5301

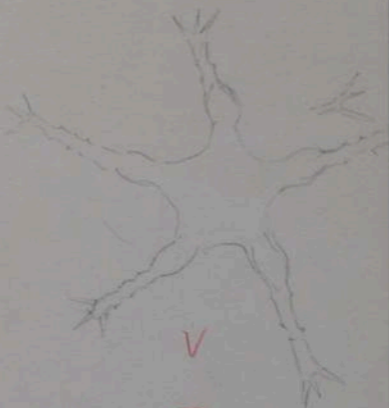
single long 58
C sp " 80
" " lat 87



1924/10/1

5910

890
1



V

?

!

only one seen!

cf *S. volans* W & W in *Bombay & Mangrove* 1949 IV 13-14
but very delicate!

Lake Victoria, E Africa plant

6297 *Ornithoglossum* long 25
C. pr. lat - 41



800/1

?

1 flower ? ?

1 grate + protract 11, 14, Tanzania, see II: 44 ?

Uganda 1954 / 1127 Lake Bunyoni

Ornithoglossum

63/5

CMPT
incomplete

long 25
c. pr. lat 37



500/



Uganda 1954/2024

6500 OMIT

[19x18+
17x11-
12+05]

not a true ...
about 0.1 ...



1953
1

0 ...

S. pandora f.



6301

long 8

lat 6



~~Reliance - ...~~

10/20/54

Legende 1054 / 1054

6302

long 12
lat max 14.5-



1420/1



Spondylosium

(of Sphaerocoma
indicum Turon)

8.23 18:2

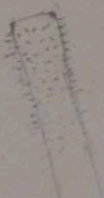
see after!

Spond. flavum

Uganda 1954/034

152

6499



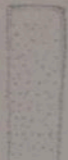
Spines very thin, hair-like
(but they are really spines)

1552
← $\frac{1552}{1}$ ✓

ly. monst. am.
on pilos. stem

Lolke Ambari; Sample 1/1

6500



$\frac{1/20}{1}$

Great layer in position

Like Arabis S. 111