Panama 1971

Clw

MEMOS

19¢

32 SHEETS • SIZE 6 IN. x 4 IN.

No. 204404

Mfd. for McGRAW-HILL - GREEN STORES
YORK, PA. 17402

Panamá (1971)

collections made by
Cleo E. Volkow and
Robert Dressler

Cleo

Leucocarpus totoralis (2 plants)
Dithyrea lora (2 "
Streptocarpus (1 plant, 1 plant)
Pharus (1 plant) 2 pl.
Streptocarpus solidaria 3 pl.
Streptocarpus spicata 2
Pharus (1 plant) 1 pl.
Antennaria peruviana 4 pl.
Streptocarpus digitatus (1 R.) 2
Macrorhiza (1 R.) 2, 1, 2
Pariana 1st S.P. 1 pl.
Antennaria 3 pl. 3
Streptocarpus 1st S.P. 1 pl.
Streptocarpus 1st S.P. 1 pl. 2 pl. 1 plant.
Pariana 2nd 1 plant 1 pl.
Antennaria 1 pl.
Streptocarpus 1 plant 1
Pharus 1 plant 1
Bambusa 1 plant 1
Streptocarpus solidaria (1 plant) 1
 njana

Shepherdia no 1
Panicum 202
Corno (Corno)

Shepherdia foliosa, Carr. 3

Machulana 4

Shepherdia, Carr. 5

Machulana 6

Machulana 7

Shepherdia, Carr. 8

" Machulana 9

Shepherdia chiquita 10

" " " 11

Arteria 12

Panama 12 13

Machulana 14

Li-Hachne 15

Shepherdia Carr. 16

~~Shepherdia~~ Carr. 17

Panama, 18 (20 f. Carr.)

Plano Chico 19

Ortodoxa 20

Orthocentrus 21

Archeria 22

Streptopogon 23

Archeria 24

Maculipinna 25

Streptopogon 26

Maculipinna 27

Maculipinna 28

Streptopogon 29

Pharus 30

Archeria 31

Pharus 32

Streptopogon 1st J. R. 33

" " " 34

Streptopogon 35

Streptopogon 36

" " 37

Streptopogon 38

" " 39

B. E. Calderon and R. Dressler.

Oct. 21, 1971

↑
2124

Cryptochloa sp.

Panamá, Prov. of Panamá,
5 Km NE of Cerro Jefe,
"La Enciso".

alt: 800 m.s.m.

Small clumps scattered in
forest, in a smooth slope
and along sides of a creek.
Some plants with ~~white~~ axillary
surface of blades dark wine
color. (There are mixed
both kinds of plants in
my herbarium specimens.)

Photo: 5 x w. roll #1 - few
(rain) Helen also took some
with color film and flash.

Fixed material

FAA: sphe, leaves - 514 10cc

berg: leaves - 515 10cc

~~3.1 = 207~~

2121

~~2122~~

Oct. 21, 1971

Panamá, Prov. Panamá, Cerro

Jefe, (Dressler's garden) near the
alt: 800 ? m. ^{beginning of the road to} Cerro Jefe

Bamboo *Autoneurina* ? cec.

Climbing bamboo

FAA: leaves - #520

Olyra taguana Swallen rel. aff.

K 2122

~~2123~~

(name tag)

Cerro Jefe -

~~Panama sp. (sterile)~~

(*Panama misteriosa*)

Large clumps near the road. Plants with no flowers. These plants have not bloom for several years. Collected in 1968 sterile. Drenler has been watching this clump and never has seen in bloom.

Rhizome collected -

Some plants with variegated leaves.

no fixed method

K, MO, NY, P

2123

~~2124~~

Olyra stanley

~~near~~ Panama', Prov. de Panama
Cerro Jefe.

Fixed method:

FAA: (2 vials) a) ⁵¹⁶ leaves, culms
and shoot apex; b) ⁵¹⁷ inflorescence.

Boog: ♀ sp. h. 518

3:1: inflorescence. 519 (♂ + ♀ sp. h.)

Photo: b & w - roll # 1? no

October 23, 1971

2125

Panamá, Prov. Panamá, Cerro
La Campana.

Cryptochloa sp.

Fixed material:

FAA: leaves, inflorescence - 521

Living plant: collected (in B. Rees)

Not very abundant, small
clumps in shady places of
the forest

2126

Lehmannanthus

Panamá, Prov. de Panamá
Cerro Campana.

Fixed material

FAA : 1 vial : leaves, inflorescence
522

Oct. 23, 1971 K, MO 2127
Panamá, Prov. Panamá, Cerro
Campaña
Pharus sp.

Living plant: collected
FAA: 1 incl. leaves #523

Bambusa nullois, ~~formis~~
forma nitida A. & C. Riviere

K 2128
~~near~~ Panamá, Prov. of Pana
ma, Cerro Campaña

Bamboo. (cultivated?)

FAA: 1 incl. with leaves 524

Oct 23, 1972

~~2128~~

Oct. 23, 1972

2129

Panamá, Prov. de Panamá

Cerro Campana.

Olyra lateralis

no fixed material

300 m. a.s.l.

Oct. 27, 1972

2130

Macdurelyra tecta

Panamá, Prov. de Panamá

Colón, Santa Rita, ca. 10

Km E of the carretera

Transistmica.

79° 45' long. West

9° 21' lat. North

Alt.: 300 m. s.m.

Living plant: collected

Fixed material:

FAA 2 sets: a) leaves, inflorescences
and?

b) seedlings (~~all dead~~)

3:1 : inflorescences.

Photo: b & w only roll # 1

Frequent in shady places of the
forest, ~~the~~ The original

W 100
100
3

type locality was out town.
Scattered plants of *Uolusys*
are still growing there.
They were ~~small~~ small plants
and only few with flowers.
Not far from that place, in
the cultivated ground plants
were growing well; most
of them with inflores. There
were more taller and
robust. Many seedlings
around clumps.

2131

Panamá, Prov. Colón, Santa
Rita, ± 10 km E of the
Carretera Transistmice.
Cryptochloa sp.

Living plant: collected.

FAA: leaves, inflorescence.

Common in the forest, in
many places assoc. with
Macclurotypa.

K

2132

same day & locality

Macclurotypa secta

seedlings - (photographed) (in
in manuscript)

2133

Panamá, Prov. Colón, Santa
Rita, ± 10 km E of the
Lanetura Transistmice.
Panicum sp.

Fixed material

FAA. 1 vial: leaves, inflores.

3:1: 1 vial with inflorescences

living plant: collected.

4

2134

Oct. 27, 1972

Panamá, Prov. of Colón, Santa
Rita, $\text{ca. } 5$ km E of the Lan-
tera Transistmice.

$\pm 79^{\circ} 45'$ long West

$9^{\circ} 21'$ lat. North

alt: 200 - 250 m. s. m.

Eupptochloe (Panicum type)

living plant: collected

FAA: leaves & inflorescences.

Small, succulent plants
growing on a bank, humid
sloped rocky slope.

Oct. 27

2135

Panamá, Prov. of Colón, Santa
Rita, ± 5 km E of the
Carretera Transistmice -
~~alt~~ $\pm 79^{\circ} 45'$ long. West
 $9^{\circ} 21'$ lat. North.

alt: $\pm 200 - 250$ m. s. m.

Cryptochloa Dresslerii

Photos. 5 x w - roll 4

Living plant: collected

Fixed mat:

FAA = leaves & infl. (2)

3:1 = infloresc. (2)

~~Borguet~~ = infl.?

FAA = seedling growing from
spikelet (1)

Oct. 27, 1974

2136

Panamá, Province of Colón
Santa Rita, ± 5 km E of the
Carretera Transisthmica.

79° 45' long west

9° 21' lat. north

alt. 200 - 250 m. s.m.

Panama sp.

Large clumps in bloom. Inflo-
rescence in a separate shoot.

Photo: ? b.w. roll #1 2nd

Fixed material: FAA - leaves &
infloresc. (1 vial with inf. fixed. 1 day after
collecting in plastic bag)

3:1 - inflorescences 2 "

Borg: " ?

October 29, 1974

2137

Panama, Province of Panama
Cerro Jefe.

h

Cryptochloa sp.

Growing in shady places
of forest associated with
Macaranga trees.

FAA: incl. base and inflo-
rescences.

Photo: b & w with WAPP #2

Oct. 29, 1972 2138
Panama, Prov de Panama
Cerro Jefe.

Macdunolya teute.

In forest, bank places.
some in smooth slopes
associated with cryptobloes.
sp -

Photo: b & w roll #2 associated
with cryptobloes.

no fixed material.

Oct. 29, 1972 2139
Panama, Province of Panama
Cerro Jefe, near the begi-
ning of the road to the
cerro.

Olyra lateralis

Living plant: collected

Photo: b & w roll #3

Fixed material:

FAA. leaves, . splnd (♀)

3:1 = ♂ splnd.

Oct. 29, 1977. K 2140

Panama, Prov. of Panama
Cerro Jefe, near the beginning
of the road to the cerro.

Barro Colorado Rhipidocladum

Fixed material: FAA. leaves.

Sugar cane

Panama', Prov. of Panama'
Road to Cerro Jefe -
(cultivated)

FAA: leaves

(no herb. specimen?) no

Oct. 31, 1972

2141

Panama', Prov. of Panama' colón
Santa Rita, from 12 to 20
km E of the carretera
Transistmica.

9° 21' lat. North.

79° 43' long. West.

Calceonella citratica

Photo: 6 x 4 roll # 3

Fixed material: 3 vials

FAA = leaves, sphs

3:1 = sphl.

Bouquet = sphl.

Living plant: collected.

2142

Panamá, Prov. of Colón,
Santa Rita, Near Agua
Clara, rain gauge station,
ca. 20 km E of the Carretera
Transistmica.

9° 21' lat. North

79° 42' long. West

alt: 350-400 m. ± m.

Arseria panamensis

FAA² - leaves & inflores.

3:1 - infl.

Bong - infl.

Living plant: collected.

no photo.

1 FAA val (material ^{fixed after} 2 days in plastic)

In primary forest, shrub,
very pubescent stems of a
erect

Oct. 31, 1972

2143

Panamá, Prov of Colón,
Canta Rita, $\pm$ 18 Km E from
the Carretera Transistmice
(Magical) *Tripsacum latifolium*
Hitch.

In a secondary growth of
~~cleared~~
~~pasture~~ forest.

FAA = leaves, inflorescence.

Nov. 1, 1972

KMO

2144

Panamá, Panamá Canal,
Barro Colorado Island, A.
Armour Trail 8,
ca. $79^{\circ} 51'$ long. West
 $9^{\circ} 9' 50''$ lat. North

Olyra latifolia.

FAA = leaves -

Photo = roll # 3 b & w.

Nov. 1, 1976

Panama, Panama Canal ²¹⁴⁵
^{Bono, Panama} Prov. Ar -

mountain trail 5-8.

9° 09' 50" lat. North.

79° 51' long. West.

alt. 500 m. s. m.

Streptochaeta spicata

FAA. leaves, inflores.

Bone - inflores.

Nov. 1, 1976

Panama, Panama Canal ²¹⁴⁵
_{Barro Colorado} Is. Ar -

mount trail 5-8-

9° 09' 50" lat. North.

79° 51' long. West.

11.500

ultimo viaje

3km de límite hacia la
upresa del Bayano.
Prov. de Panamá.

Near Chepo (para Phap-
Prov. Panamá mitorico)

1° viaje Cerro Jefe.

5km al NE de Cerro Jefe,
La Encinta - 800 m. s. m.
Prov. Panamá

Jardínito Roberto: Cerro
Jefe - Prov. Panamá

Loma de Ayaca: Babuya,
al E de Toumen - Prov.
de Panamá.

O. lateralis : Cerro

Jefe, ($\pm$ 100 m del Jardínito
de Roberto) al comienzo del
camino de Cerro Jefe.

Prov. de Panamá, 20 km
9° 21' lat. N.
79° 42' long.

Prov. de Panamá, not far from
Herra Llana Rain Gauge
Station.

- Br. Aréniz -

$\pm$ 20 km de la carretera. Transición
- ca - 350 - 400 m. s. m.

1° viaje a J. Rito

Modulog $\pm$ 10 km de la loma
300 m s. m.

79° 45' long.
9° 21' lat.

Copp. mol. : chipirito
5 km de la carretera
 $\pm$ 200 - 250 m s. m.

Calderonella

12 K. e 20 km de la costa

Nov 3 - near Sanito

2150 - Bamboo - ? K, MO

2151 - Olyra latif - ? K ✓

2152 - Pharus nister - ? ✓

2153 - Steptocata sodina ✓

2154 - Olyra Pharus steril

2155. (Olyra parva) Bamboo ¹⁹⁵⁶ K, MO

2156 (Olyra - Bamboo)

2157 Olyra pequena crecida en K

2158 (en el camino Phragmites)

1. 10/10/1919 10/10/1919
2. 10/10/1919 10/10/1919
3. 10/10/1919 10/10/1919
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7. 10/10/1919 10/10/1919
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9. 10/10/1919 10/10/1919
10. 10/10/1919 10/10/1919

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8. 10/10/1919 10/10/1919
9. 10/10/1919 10/10/1919
10. 10/10/1919 10/10/1919

6 Jefe

- 514 FAA. 1^o Cryptol.
 515 B " ojos
 516 O. Stanley FAA, ojos, talla, remat.
 517 " J FAA, infloresc.
 518. " B - fl. ♀
 519 " 3:1 inflores. (♂, ♀)
 520 ~~Bambusa~~ (Jardi Bot.) FAA, ojos
 521 Crypt. de comp. - FAA ~~comp.~~
 522 Technocentus. FAA, inf, ojos
 523 Pharus, comp. FAA, ojos
 524 Bambusa (tallo nuevo) FAA "

cañ. 3:1 de: (4 personas)
 Tecto - Paniana 1^a, Paniana 2
 Cryptol. violeta

~~cañ.~~
 Labeoella FAA, B,
 Ardenia, FAA, B
 Meibomia FAA

ley (Barro Colorado) en franco nitio
 FAA: ojos Step. Solidana y Strept
 que plantas (fijos al repasar)

11.11.11 J. limit - FAA

Ad. 31 Santa Rita
 2141 Labeoella FAA B, 3:1, RL
 2142 Ardenia
 2143 Meibomia

2144 - Barro Colorado
 2144 - Pharus cat. ? Ardenia trail ± 8
 2145 Strept. tech. spicata
 2146 Strept. solidana (no preseñe)
 2147 Pharus
 2148 Strept.
 2149 Pharus idios

Oct. 27. Santa Rita.

1^o laps 2130 - *Maculolyra* - Pl.

2131 - *Cryptochloa* sp. - Pl

2132 - *beles de Maculolyra*

2133 - *Pariana* 1^a - Pl

2134 - *Cryptochloa chiquita* - Pl

2135 - *Cryptochloa densa* - Pl

2136 - *Pariana florentina* - Pl
(male plant today)

entire
le. S. Rita

Oct. 29. Cerro Tepe -

2137 - *Cryptochloa*

FRA H₂O

WFA H₂O

2138 - *Maculolyra* - *in a atajo* -

2139 - *Beauvoisia tetralix* FRA, 3:1, Pl, H₂O

2140 - *Bambusa* - FRA

sup. are only FRA. no H₂O

not
same.

Bamboo: FRA - H₂O, after water

?

Oct. 31. Santa Rita

2141 *Colobosoma* FRA by 3:1, Pl

2142 *Artemisia*

2143 *Maize* -

Nov. 1 - Cerro Colorado

2144 - *Olyra* sp.? Arroyo Trail ± 8

2145 *Styptochloa spicata*

2146 *Styptochloa sodiniana* (no fence!)

2147 *Pharus*

2148 *Styptochloa*

2149 *Pharus* *clivis*

Oct. 21 Cerro Jefe

- 2121 - ²¹²²Samolus triflorus (x10 par. mto)
2122 ²¹²³(b) Panane mistiosa variegata PL
2122(c) " " nigra y no loja
2123 Olyra Stanley - tiene canes
bucos (o nigra para usar.
2124 ²¹²¹Cryptochloa (negra) PL
las violáceas y las no violáceas.

Oct. 23: Cerro Campana

- 2125 Cryptochloa PL
2126 Echinanthus
2127 Pharus PL
2128 Bambusa (x10 carretina?)
2129 O. lateralis

- 514 FM - Crypt. FAA Cerro Jefe
515 " " B.
516 O. Stanley FAA 1/2, 1/2, 2/2
517 " " inflo. FAA
518 " " B
519 " " 3:1

520 Bambusa FAA

- 521 Cryptochloa - FAA 1/2, 1/2, 2/2 Campana
522 Echinanthus 1/2, 1/2, 2/2 FAA
523 Pharus 1/2, 1/2, 2/2 FAA
524 Bambusa 1/2, 1/2, 2/2 FAA

ch Crypt - FAA
 " Crypt B
 200 O. Haul - 200 FA
 100 " 100 FA
 ch — ch E B
 100 " 3.1
 50 Bamb. - FAA
 ch? Cryptoch - FAA
 50 Telhantus "
 50? Pharus "
 50 Bamb. nary. "
 ch 50 Nocturn. "
 ch? " 3:1
 50 " Bebes FAA
 ch? Cryptoch - FAA
 ch Crypt. chig - FAA
 50? Crypt. band - FAA
 ch " " 3:1
 ch? " " B?
 100? Parane 12 FAA
 50 ch " " 3:1
 -50? " 22 FAA
 -ch? " " B
 -50 " " 3:1
 -ch? Cryptoch - FAA
 200. Lata apical.
 ch - FAA B. lateral

2 ch. Crypt not
 Z + 1 ch 7/50

FAA 31:
 calculation for

1	ch.	B lateralis	3:1
1	50	Bambu	FAA
1	50?	Coleroneille	FAA
1	ch-	"	3:1
1	ch-	"	B
1	50?	Arsenic	FAA
1	ch-	"	B
1	200?	"	3:1
1	50	Maizea -	FAA -
1	ch?	Streptopis -	FAA
1	100?	O. Colif. oliv?	"
1	50?	Strept. f. sod.	"
1	50	Plains?	"
1	50	Streptopys -	"
1	50	Orthocole	"
1	50	Strept. f. sod.	"
1	50 ch?	Streptopys -	"
1	ch	O. Colif -	"
1	50	Plains mist -	"
1	100	Sty. f. sod.	"
1	100?	"	3:1
1	ch	"	B
1	50	Bambu finto	FAA -
1	50	oto Bamb.	"
1	ch	Olya - Bamb	"
1	ch-	Olya pequena	"
1	100.	Phosphat -	"

canitos

Former No.

Present No.

26

22

27

23

28

24

29

25

30

26

31

27

32

28

33

29

34

30

35

31

36

32

37

33

38

34

39

35

40

36

41

Color slides
No number

42

37

43

38

C.E.C. 1968 TROPICAL AMERICA

Former No.

Present No.

1

1

2

2

3

3

4

4

6

5

8

6

9

7

11

8

12

9

13

10

14

11

15

12

16

Color slides
No number

17

13

18

14

19

Color slides
No number

20

15

21

16

21a

17

22

18

23

19

24

20

25

21

6 Jefe

514 FAA. 1^o Crypt. tol.

515 B " Wjs

516 O. Stanley FAA, Wjs, talla, remat.

517 " J FAA, inflores.

518. " B - fl. ♀

519 " 3:1 inflores. (♂, ♀)

520 ~~Bumelia~~ (Jari Bot.) FAA, Wjs

521 Crypt. de Wjs - FAA ~~Wjs~~

522 Tachinatus. FAA, inf, Wjs

523 Pharus, Wjs FAA, Wjs

524 Bumelia (tallo nuevo) FAA "

ca. 3:1 de: (4 pocas)

Tecto - Pariana 1^a, Pariana 2

Crypt. del. violeta

~~ca. 3:1~~

Lalawella FAA, B,

Artemis, FAA, B

Maitrea FAA

Wjs (Bano Colorado) en franco nitio

FAA: Wjs Strup. Sodinoana y Strup.

que fuertes (fijos al respirar)