

2

Allen, P. H.

2893-5201

1942

-1947

Allen, Paul H.

BOOK 2.

Field notes

1942 - 1947

2893- 2979 Panama  
2980-3016 Colombia  
3017-5201 Panama.

- X 2893 - MAXILLARIA - Sepals & Petals Pink, corolla  
 yellow with yellowish ribs - lip yellow - apical  
 lobe heavily spotted rose pink. (1)
- X 2894 - HORTALYA BURTII (1)

El Valle - NORTH - 800 METERS.

12/23/41

2895. ONCIDIUM POWELLII - Egypte - S. & P.  
 Rich chestnut brown - with very narrow  
 yellow edge (1/2 mm.) margins undulant,  
 + crisped -  
 Slightly yellow tessellations on sep.  
 frontal lobe of lip brown yellow -  
 with <sup>3</sup> distinct brown spots near base  
 of calyx - anther cap yellow.  
 Flowers 4 - 4.5 cm in diameter. (1)

Vicinity of Palo Seco - C.R. - O.M. 1-11-42

- X 2896 - BAUHINIA - Giant liana - common in trees  
 along rocky benches - mature canes  
 woody - curiously undulant - armed with spines.  
 Flowers greenish white - fragrant. (6)

REGION NORTH OF EL VALLE DE ATON - ABOUT 1000 m.  
(FINCA MUÑOZ) 1/13/42

2897 - CAUCANISMA ALBA - Epiphytic STRASS - 1/2 m. or  
LESS - BRACTS SHARP PINK - FLOWERS YELLOW. (2)

X 2898 - Epiphytic Bromeliad - RATTIS TAN - BRACTS TAN -  
FLOWERS WHITE - FOLIAGE GREEN EXCEPT FOR BRACT  
1/4 WHICH IS BROWN. (3)

X 2899 - Epiphytic FERN - MYRMECOPHYLOUS SPECIES -  
ASSOCIATED WITH MINUTE BLACK ANTS & LARGE  
BROWN SCALE INSECTS - (6)

X 2900 - THECOPHYLLON - DIANT TANK Epiphytic -  
INFLORESCENCES GREAT - COVERED WITH A SILVER  
GRAY TOMENTUM - LEAVES GREEN - FLOWERS ROSE  
PINK - BUDS LAVENDER. (2)

X 2901 - EPIDENDRUM - Epiphytic - FLOWERS GREEN. (2)

X 2902 - ORCHID - Epiphytic - FL. YELLOW. (3)

X 2903 - LOCKHARTIA - Epiphytic PLANTS MUCH LIKE  
L. pallida IN SUPERFICIAL APPEARANCE - EXCEPT  
THAT THE LEAVES RARELY EXCEED 8" IN LENGTH  
FLOWERS RICH YELLOW - ABOUT 1/4" IN DIAMETER. (1)

X 2904 - ORCHID - Epiphytic. (2)

X 2905 - Epiphytic Bromeliad - AXILLARY BRACTS &  
PANNICLE RED - IMBRICATING BRACTS OF INFLORESCENCE  
SILVER GRAY - FLOWERS LAVENDER - FOLIAGE GREEN. (2) (2)

X2906 - *BEKONIA* - Flowers white. STAMENS yellow  
yellow - common ON ROCKS & DRYING STUMPS. (3)

2907 - *MELASTOMACE* - Flowers lavender. common (6)  
ON BOUTLETS IN STREAM BEDS -

X2908 - *ACANTHACE* - SHRUB - 2 - 2 1/2 m. Flowers  
scarlet - common. (7)

2909 - *HELICONIA* - INFLORES Cymes terminal - erect.  
PLANTS ABOUT 3m tall. BRACTS GREENISH, OR SOMEWHAT  
TINTED WITH purple. Flowers BRILLIANT PINK -  
UNDER SURFACE OF LEAVES OFTEN TINTED purple (11)

X2910 - TREES - 20 - 25 m - Flowers ROSE PINK -  
Flowers LITERALLY TRAILS everywhere. common. (12)

SOUTH RIM OF EL VALLE - ABOUT 650 m. 1/13/4

X2911 - *CASSIA*? - SMALL TREES 3 - 6 m along roadside  
ON DESCENT INTO VALLE PROFUNDA - Flowers  
yellow - STEMS very hairy - HAIRS  
long + silvery. (13)

X 2912 - TREES - 6 m. FRUITS PINK - CONSPICUOUS.

HELIOCARPUS - (ALSO IN FLOOR 7 ON NORTH SIDE) (3)

2913 - PIPEROMIA - GROWING ON EXPOSED ROCKS WITH  
TURROCHA ETC - STEMS PINK - LEAVES VERY THICK (4)

X 2914 - ONCIDIUM MICROPHORUM - GROWING IN "NANKE"  
TREES - FLOWERS YELLOW (ALSO ON NORTH SIDE) (2)

X 2915 - BULBOPHYLLUM PARTLY RAULIAS - COMMON. (2)

X 2916 - FERN - TERRESTRIAL - FLEDS PRESSD VERTICALLY  
AGAINST TRAILSIDE BANKS - COMMON. (5)

X 2917 - CASSIA - SCANDENT SHRUB - 2' - 3' m.  
FLOWERS BROWN YELLOW. (6)

2923

2.3 - PSEUDO BULBS SUB-ORBITAL - 3.5 - 4.00 CM

LONG AND 2.5 - 3.00 CM WIDE - MUCH

COMPRESSED - WRINKLED - MONOPHYLLOUS,

HEAVILY SPOTTED WITH BLACK - BASE OF

PSEUDO BULBS SHEATHED IN 3 FOLIOLOUS

BRAIDS - FROM THE AXIL OF ONE OF WHICH

THE FLOWERING SCOPE APPEARS.

FLOWERS VERY VARIABLE IN SIZE - MEASURING

FROM 2.5 X 2.00 CM. IN THE LARGEST VARIETY

SEEN (PRESERVED IN STOCK) TO 1.75 X 1.00 IN

THE SMALLEST FLOWERING VARIETY. COLORS AS

PREVIOUSLY NOTED.

Panama

REGION NORTH OF EL VALLE - (FINCA MUÑOZ)

800 - 1000 M - FEBRUARY 2 - 1942

- 2918 - MAXILLARIA - Epiphytic - DWARF PLANTS - S. & P. CREAM -  
LIP CREAM - FRONTAL LOBE RED-BROWN - ①
- X 2919 - COLUMNEA - Epiphytic - TIPS & MARGINS OF  
LEAVES BLOOD RED - STEMS RED - FLOWERS  
RED - ②
- X 2920 - MAXILLARIA - PSEUDOBULBS CLUSTERED - MATURE LEAVES  
6.5 - 17 CM WIDE - 25 CM LONG - SEALS & PETALS  
YELLOW - LIP YELLOW - WITH FRONTAL LOBE HAVING  
A WHITE MARGIN & LATERAL LOBES RED-BROWN - ①
- 2921 - MAXILLARIA - DWARF TUFTED PLANTS - SEALS &  
petal pure white - LABELLUM ROSE PINK - WITH  
pale yellow FRONTAL LOBE - ①
- X 2922 - BRASSIA ? - PLANTS RESEMBLING HORTLEYA -  
SEALS & PETALS RICH CHESTNUT BROWN - LABELLUM  
pale yellow - ①
- X 2923 - ONCIDIUM - LEAVES GREEN - PSEUDOBULBS ROUNDED -  
BLACK - FLOWER SCAPES MUCH BRACKETED - NORMALLY  
ABOUT 14" LONG - SEALS - PETALS & LIP YELLOW  
YELLOW - WITH CHESTNUT BROWN BLOTCHES AT  
BASE - BLOTCH AT BASE OF LABELLUM IN FORM  
OF A ROUGH U <sup>yellow</sup> INCLUDING BARKEN CALLOS. ①
- ← (CONTINUED opposite page -)



CUBA Alluvii

- X2924 - Epiphytic - STRANDED TREE - 10-12 M - OUTER SURFACES OF PETALS OLD ROSE - INNER SURFACES & OUTER MARGINS CREAMY WHITE - BARK OF TRUNKS & BRANCHES SPINY - (3)
- 2925 - BEGONIA - Epiphytic - Fls. Very pale pink - (4)
- X2926 - ORCHID - Epiphytic - Fls. pale green - (1)
- X2927 - ACANTHACE - SHRUB - 1' LM - Fls. BRISTLY yellow (2)
- 2928 - MONOPYLE - COROLLA LOBES BLUE - OUTER COROLLA WHITE - INNER COROLLA pale yellow - UNDER SURFACES OF LEAVES purple - (1)
- 2929 - BRONCHIA - Epiphytic - SCAPE BRACTS SCARLET - Flowers white - Foliage green - TINTED LAVENDER - (1)

CYCNODETES

RIO TABASARA - PROV. OF CHIRIQUI - 50 M - Elevation -

(Plant flowering in BARBON - collected at above locality) 1/3/42

- X2930 - Sepals & petals GREENISH yellow - Lip pure white - with DARK GREEN basal callus - column GREENISH yellow - with outer yellow ANTHUR cap. Flowers DELICATE, fully FRAGRANT IN THE MORNING - (1)

Region north of EL VALLE DE ATON - PROV. OF  
Cocle. elevation ABOUT 1000M - JUNE, 1941

X 2931 - STAN HOPEA - Flowered in the collection of MR.  
A. S. B. FAIRCHILD, SAN FRANCISCO DE LA CALERA, AND  
collected by him at the above locality. Flowers  
CREAMY WHITE, without characteristic "eyes"  
or spots. LARGER THAN EITHER *S. NARDII* OR  
*S. BUCOPHAEUS* - (1)

X 2932 - MAXILLARIA - (KOEBER PHOTOPHORA) Flowers sessile  
in leaf axils - Sepals & petals yellow. Lip  
Reddish Brown. Column Reddish Brown - FRAGMENT (1)  
Collected by MR. A. S. B. FAIRCHILD & flowered in  
his collection Feb. 12 - 1942 -

vicinity of PASORA - REP. DE PANAMA -  
25M - 2-17-42

X 2933 - ONCIDIUM - STIPITATUM - Sepals & petals  
yellow - Richly spotted & barred chestnut  
brown - Frontal - much expanded lobe  
of labellum. Bract yellow - lateral  
standard lobes of same color - chestnut  
brown crested <sup>A BASE OF LIP</sup> called Below column. (3)  
(Flowers in pickle showing variation in size)

REGION SOUTH OF EL VALLE DE AYON  
600 m - 2-20-42

2934 - *Sobralia Williamsii* - STRIKE CARE - ①

REGION NORTH OF EL VALLE - ABOUT 1000 M  
2-20-42 (FINCA MUÑOZ)

X 2935 - *Maxillaria* - epiphytic - Flowers BRIGHT yellow ①

2936 - Epiphytic - S. & P. LAVENDER, LIP GREENISH LAVENDER ②

X 2937 - *Oncidium* - S. & P. BROWN-TIPPED yellow.

Lip BROWN, WITH FRENCH & LATERAL LOBES yellow.

CREST AT BASE OF Lip woolly - WHITE - AREAS  
yellow. ①

X 2938 - SEE # 2923 FOR DESCRIPTION - ②

X 2939 - *Oncidium microflorum* - Common ②

2940 - *Walteria Allenii* - Single - OR multiple

Stemmed slender palms - THE TRUNKS - DRUM -

OBSOLETE RIND. AVERAGE 5-6" IN DIAMETER.

FLEDS PINNATE, WITH A LEAF - WELL DEVELOPED

CROWN SHEATH. BASE OF TRUNK SUPPORTED

BY A ROUND OF BUTTRESS ROOTS - LAGUER

RED - ABOUT A FOOT IN HEIGHT. GENERALLY

DISTRIBUTED THROUGHOUT THE VALLE AREA

ABOVE 700 METERS - ②

2942 - (CONTINUED)

LESS CONDENSED - OR DIVIDED FROM WIND OR  
DAMAGE - INFLORESCENCES PENDANT - INFRA -  
FOLIACIOUS - 2-4 in NUMBER - (1)

REGION NORTH OF EL VALLE - 800 M -  
4-4-42

X2943 - NONDORA - FLOWERS STRAW YELLOW -  
SPOTTED RED-BROWN - SLIGHTLY FRAGRANT. (1)

REGION NORTH OF EL VALLE - ABOUT 800 M  
5-10-42

2944 - COLUMNEA - FLOWERS RED - STEMS & TIPS OF LEAVES  
STAINED BLOOD RED - EPiphytic - (2)

X2945 - Bromeliad - epiphytic - BRACTS OF SCAPE SCARLET  
FLOWERS YELLOW - (2)

HILLS SOUTH OF EL VALLE - ABOUT 700 M -  
5-10-42

X2946 - ERICACEAE - TREE - 20 M - FLESHY CALYXS  
BRIGHT RED - COROLLA TUBES BRIGHT WAXY  
YELLOW - VERY HANDSOME & LONG LASTING. (5 HED) (18)

Hills NORTH OF EL VALLE - ABOUT 800M -  
5-10-42.

- 2947 - Slender palm - *WEDDINGIA?* - 2M - Grows in  
in Heavy SHADE - (3)
- 2948 - Small tree - 3M - FRUITS CONSPICUOUSLY ORANGE  
SCARLET ON DENUDENCE - (1)
- 2949 - *CHAMAEDORHA?* - Slender palm - 3M - (1)
- 2950 - AEROID - epiphytic - SPATHE BROAD -  
Fleshy - deep pink - conspicuous - (1)
- 2951 - *BACTRIS* - leaves covered with short  
soft golden hairs - SPATHE wooly  
rather than spiny - 5-8 CANES -  
2 1/2 - 3M tall - in deep shade - (1)
- X 2952 - *STALIS?* - epiphytic - flowers purplish  
black - (2)
- 2953 - *APOCYNACEAE* - SHRUB OR SMALL TREE - 3M -  
Flowers yellow (3)
- 2954 - AEROID - epiphytic - (2)

Hills SOUTH OF EL VALLE - ABOUT 700M -  
5-10-42

- 2955 - *ANDIRA* - TREES - 15-20M - Slender -  
Common along roadside - flowers  
lavender -

2956 - MORNINGS - FLOWERS GREENISH BROWN - (KOEHLER  
PHOTO) FROM FAIRCHILD COLLECTION <sup>1 flower</sup> in pencil (1)

REGION NORTH OF EL VALLE JOON  
7/4/42

2957 - ACANTHACEAE - SHRUB OR WOODY HERB. 1 1/2 M  
FLOWERS BRIGHT YELLOW. (2)

VICINITY OF VACAMONTE POINT, PANAMA PROVINCE,  
O.M. - 9-7-42

2958 - ARAUCACEAE - COMMON ON ROCKY MOUNTAINS - FLOWER  
SPIKES 3 M TALL - INFLORESCENCE COMPOSED OF DOZENS  
OF SMALL PLANTS. FLOWERS GREENISH TAN - WITH  
DIRTY YELLOW ANthers. (1)

2959 - HELICONIA - USUALLY KNOWN AS "CURTISIANA"  
PLANTS VERY TALL - 2 1/2 - 3 1/2 M. FOLIAGE BANANA-  
LIKE - INFLORESCENCE PERSISTENT - CORIACEOUS BRACTS  
SET AT ANGLE TO THE UNDULANT RACHIS. BRACTS  
BRIGHT RED - TRANSFORMED INTO SPARKLING  
FLOWERS YELLOW - FOLLOWED BY BLUE FRUIT.

2960 - *Heliconia latifolia* - Plants averaging  
2 m tall - inflorescences erect - Bracts  
set at angles to one another on the  
undulant rachis - Bracts slender -  
boat shaped - coriaceous - red - with  
a yellowish area near the point of  
attachment to the rachis. Flowers  
greenish yellow with green margins  
to the petals. (1)

2961 - *Heliconia* - "STRAMINEA" AVERANINII  
2 m - BUT AS MUCH AS 3 & AS LITTLE  
AS 1 1/4 UNDER SOME CIRCUMSTANCES.  
Inflorescences erect, the bracts slender -  
closely imbricating. Bracts <sup>straw</sup> yellow, with  
a greenish tinge in the middle area.  
Flowers straw yellow, tipped dark  
green - (5)

vicinity of Beluco, near Rock Crusher.  
20 m - 9-7-42

2962 - *Likiepia* - Herb common to Rockay exposed  
hill top - Clumps with strap like leaves  
3/4 m tall - laxly spreading. Inflorescences  
weak prominent. Fls. white, small - with  
yellow prominent stamens. (5)

REGION NORTH OF EL VALLE DE ANTON - 9/10/42  
ABOUT 700-800 M. COLLECTED BY MR. EDWARD  
OLSON

2963- BRASSIA Allenii - S. & P. TAN - Lip pale yellow  
Flowers DELICATE FOLLY FRAGRANT. (1)

2964- DICHAEA sp. plants about 10" tall - sepals  
& petals pale green - Lip ROYAL purple - (1)

2965- Phaiosanthus - epiphytic. (1)

SAME REGION AS ABOVE - Flowered in  
BALBOA ABOUT 7/10/42 600 M - FLOOR.

2966 - Epiphyllum - COMMON ON TREES NEAR METZEL'S  
PLACE - TUFTED - plants with smooth thick  
leaves - pseudobulbs about 1" high, plants  
looking like DWARF CATTLEYS - flowers  
produce from base of pseudobulbs  
as in E. STANFORDIANUM. Flowers <sup>fleshy</sup> pale  
yellowish green. (1)

LA VENTA, Coché Province, Sea level, 9/19/42  
2967 - COMMON weedy herb - fls. yellow, <sup>with dark brown</sup> centers.  
conspicuous - (1)  
(also south of El Valle)



VICINITY OF CASA LARSA - ABOUT 65 M. 10/18/42

2968 - BAUHINIA, GIANT WOODY LIANA, Climbing in  
TOPS OF TALLEST TREES - WOODY STAMBS ABOUT  
THE DIAMETER OF A MAN'S ARM, BUT NOT FLATTENED,  
PERFORATED NOR UNDOULANT AS ARE SOME  
SPECIES. WOODY TENDRILS PRESENT. FLOWERS  
PURE WHITE. (4)

2969 - SCLHOTESIA, GROWING IN WET SAVANNA - FLOWERS  
BRIGHT PINK, VERY CONSPICUOUS -  $\frac{3}{4}$  M TALL. (3)

2970 - SCLHOTESIA, GROWING WITH THE FORMER SPECIES -  
FLOWERS MUCH SMALLER - DULL, DIRTY PINK. (1)

2971 - Polydora - COMMON ON DRY SAVANNA - FLs.  
pale lavender - (4)

2972 - Polydora - DWARF SPECIES, HAVING BROAD LEAVES.  
THE BRIGHT PINK. (3)

HILLS NORTH OF EL VALLE - 3-14-43 - ABOUT  
1000 M -

2973 - STERculia, "PANAMA" TREES 90 FT.  
TALL - UNBOTTLED, MATURING AS IN THE  
CAPULE - LEAVES STRONGLY VEINED, ENTIRE

2974 - TUSTAVIA - TALL - SLENDER - SPARSELY BRANCHED TREES -  
15 M - CONSPICUOUS FOR THE LONG-LEAVED CLUSTERS  
NEAR THE ENDS OF THE BRANCHES - INFLORESCENCES  
ERECT, TERMINAL, PANICULATE, OF GOLDEN YELLOW  
FRAGRANT FLOWERS - (LOMA DEL TIPO) <sup>"MEMBRILLO"</sup> ①

2975 - LUCUMA SP. TREE - 15 M - "MAMECILLO"  
FRUITS SPHERICAL - LIGHT ORANGE - INSIPID &  
REPORTED AS NOT EATEN -

2976 - CEIBA Allenii, STRANGLER TREE, EPYPHYTIC  
HABIT OF TOPOBEA RENDIANA LEAF SPECIMENS - ②

2977 - COCCOLOBA - TREE - 25-30 M - "UVERO" INFLORESCENCES  
PENDANT - BUDS DARK RED - FLOWERS WHITE  
WITHIN, FRAGRANT - NEW LEAVES <sup>CONSPICUOUS</sup> -  
RED - BROWN -

2978 - VIOLACEAE, CREEPING, STRANGLER - HERB  
HAVING THE HABIT OF POLYRACEM ACRE -  
FLS. CONSPICUOUSLY NOLET LIKE - LAVENDER  
BLUE - (over)

2979

*Calocarpum viside* - tree - 25<sup>m</sup>. Fruits  
green - seed exceptionally large - with a  
conspicuously large hydium.

Paul H. Allen

Missouri Botanical Garden

Collections from

Columbia, S.A.

July - 1943 TO NOVEMBER - 1945

NO. 2980 TO 3407-A

PLANTS OF PANAMA.

MARCH - 1946 TO OCTOBER - 1947

NO. 3408 TO 5201

Species X IN LEFT HAND MARGIN HAVE BEEN DETERMINED.

Quibrada Guicó: Vicinity of Bogotá - Colombia  
Elevation (about 11,000 ft. July 11, 1943 with F.M. Pooley)

- 2980 ✓ Bromeliad - epiphytic on boulders. Paramo - Bracts scarlet <sup>ret</sup>  
flowers white. ①
- 2981 ✓ Loranthac - small tree - 3 meters - not parasitic - flowers <sup>white</sup>  
white. ③
- X 2982 ✓ Espeletia corymbosa - plants not trunked - dwarf -  
flowers yellow. ②
- 2983 ✓ Tree - 10 meters - flowers white. ①
- X 2984 ✓ Gentian - dwarf herb - flowers pale lavender - striped  
deeper lavender. ①
- X 2985 ✓ Melastomac - dwarf herb - flowers yellow - scapes from  
a bright green basal rosette - like a dwarf primula. ②
- X 2986 ✓ Lycopodium - steep banks. ②
- X 2987 ✓ Psichomanes - pendant - brownish woolly fronds -  
boulders on Paramo. ②
- X 2988 ✓ Melastomac - shrub - 2 meters - flowers deep rose. ③
- X 2989 ✓ Ericaceae - dwarf shrub - 25 cm. - flowers rose red -  
Paramo. ②
- X 2990 ✓ Geranium - flowers deep lavender - Paramo. ①
- 2991 ✓ Viburnum - tree - 10 m. - flowers white. ②
- 2992 ✓ Legume - herb - keels black - standards white - fragrant. ①
- 2993 ✓ Eleanthus - clumps on boulders in Paramo -  
flowers rose purple. ①
- X 2994 ✓ Ericaceae - shrub - 2 m. - flowers rose red. ④
- X 2995 ✓ Ericaceae - same as above but a tree - 15 m. - flowers larger. ②
- 2996 ✓ Orchid - flowers pale lavender. ③
- X 2997 ✓ Composite - flowers white. ①
- X 2998 ✓ Composite - spiny shrub - 3 m. - flowers pale lavender. ②
- 2999 ✓ Espeletia - flowers yellow - plants with trunks 75 cm.  
tall - leaves silvery - Paramo. ①
- 3000 ✓ Melastomac - creeping matted herb - flowers white -  
leaves succulent - Paramo. ②
- 3001 ✓ Eric caulon - dwarf herb - flowers white - Paramo.
- X 3002 ✓ Composite - flowers yellow - Paramo. ①
- 3003 ✓ Pteris thallic - flowers pale yellow. ①

- 3004 ✓ *Lobelia* - dwarf herb - flowers deep violet - Paramo (2)
- X 3005 ✓ *Lobelia* - herb - flowers violet - Paramo (3)
- X 3006 ✓ *Hypericum* - flowers yellow Paramo (1)
- X 3007 ✓ *Eurhizanthe* - flowers pale greenish white Paramo (1)
- 3008 ✓ *Spiranthes?* - flowers greenish white Paramo (2)
- 3009 ✓ *Melastomac* - woody herb - flowers black purple - Paramo (2)
- X 3010 ✓ Herb - leaves red-brown - flowers white - Paramo (2)
- 3011 ✓ *Orchid* - terrestrial - flowers bright pink Paramo (2)
- X 3012 ✓ *Uridaceae* - flowers pale yellow - Paramo (3)
- X 3013 ✓ *Ericaceae* - shrub - 1 1/2 m - flowers pale pink - Paramo (2)
- 3014 ✓ *Epidendrum* - flowers pale greenish tan - Paramo (2)
- 3015 ✓ *Orchid* - flowers yellow - Paramo (1)
- 3016 ✓ *Ladium* - Liana - flowers yellow - fragrant - Paramo (1)

Rio Macu (Macu - Paramo) 8/11/43

- 3017 ✓ Shrub or small tree - 6 m. - flowers dull red - old clearings on sand. (5)
- 3018 ✓ Tree - 10 to 12 m. - flowers dirty white (2)
- 3019 ✓ Tree - 12 m. - fruits brown (2)
- 3020 Tree - 10 m. (1)
- 3021 Distichous <sup>Bromeliad?</sup> *Bromelias* - very common - scape bracts orange scarlet (1)
- 3022 ✓ ~~Orchid~~ <sup>ATTALAPHIACEAE</sup> vine - flowers yellow IN OLD CLEARING AT HEAD OF TRAIL TO YAMP (3)
- X 3023 ✓ Perrestrial orchid - branched - 2 m. - flowers lavender - lip fringed with crested hairs (2)
- 3024 ✓ Herb - flowers white - common (1)
- 3025 Permite nest epiphyte - flowers white (1)
- 3026 Sedge (1)
- 3027 *Picramnia* (1)
- 3028 ✓ *Bromeliad* - terrestrial - bracts bright red (2)
- 3029 *Scitamineae* - bracts red (1)
- 3030 *Orchid* - epiphytic - flowers tan (1)
- 3031 *Epidendrum* - terrestrial - flowers green (1)
- 3032 ✓ *Lycopodium* - common one - tas - tab - wa (2)
- 3033 ✓ *Clusia* - tree - 15 m. - flowers white - stamens yellow - fragrant. (4)

- X 3034 ✓ Pichomanes - old clearings (2)
- 3035 Fern ally - " " (1)
- 3036 Shrub - 1 to 3 m. - flowers greenish white (2)
- 3037 ✓ Shrub - 1 1/2 m. - bracts red - flowers green (2)
- 3038 ✓ Shrub - 2 m. - hairs on inflorescence scarlet (2)
- 3039 Common herb - flowers yellow (1)
- X 3040 ✓ Pichomanes (2)
- X 3041 ✓ " (3)
- 3042 Melastomac - herb (1)
- X 3043 ✓ Scandent shrub - 3 m. - flowers deep blue (2)
- X 3044 ✓ Herb - very common (6)
- X 3045 ✓ Fern ally. - ~~FORANNA~~ clumps in "CAATINNA" woods - (4)
- 3046 Gesneriac - shrub - 1 1/2 m. - flowers red (1)
- 3047 Sobralia - flowers white - yellow lip - fragrant (2)
- 3048 Blue orchid - see diary (4)
- ~~3049~~ ✓ Pak sogudi - see diary (~~later~~) (4)
- ~~3050~~ ✓ Bujawak puy - see diary

Bacarikurara - Rio Paca - 9/6/43

- 3051 Tree - 6 m. - flowers yellow - cauliflorous (2)
- 3052 ✓ Shrub - 2 m. - flowers greenish white (1)
- 3053 ✓ Tree - 10 m. (2)
- ~~3054~~ ✓ Byrsonima - tree - 6 m. - "Miu-gaij" tocano (2)
- 3055 ✓ Shrub - flowers white - 2 m.
- 3056 Bromeliad - epiphytic - basal scape bracts scarlet - flowers yellow (1)
- 3057 ✓ Woody liana - 10 m. - Ericaceae - calyx scarlet (1)
- X 3058 ✓ Small tree - 3 m. in clear spot in forest (3)
- 3059 Bromeliad - epiphytic - scape bracts pink (1)

Peresita - Rio Papua - 8/15/43

- 3060 ✓ Herb - flowers yellow (3)
- ~~X 3061~~ ✓ Bujawak puy or arara suringa - tree - 35 m. - see diary (6)
- ~~3062~~ ✓ Mahawak puy - see diary (4)
- ~~3063~~ ✓ Pak puy - see diary (5)

- 3064 ✓ Sab-a-di - see diary - sterile (3)
  - 3065 ✓ OKU-KI-RANA - tree - 25m. - sterile (3)
  - 3066 ✓ Di-juw-j-wab-soguj - tree - 20m. - sterile (3)
  - 3067 ✓ Vine - apocynac - flowers deep yellow (4)
  - X 3067-A - HAB - Common to SAND Clearings - Flg. white
- Piracurara - 8/18/43
- 3068 ✓ "Mac-so-ne-ne" see diary (4)

Rio Cui-cu-yu - 8/23/43

- X 3069 ✓ Shrub - or woody liana - 3m. - flowers dull red (2)
- 3070 ✓ Apocynac - vine - flowers white (2)
- 3071 ✓ Tree - 12m. - flowers pale yellow (2)
- 3072 Shrub - 4m. - flowers pale yellow (2)
- 3073 Shrub - 1 1/2m. - flowers pink (2)
- 3074 Vine - apocynac - flowers pink (1)
- 3075 Tree - 12m. - flowers pale yellow (2)
- 3076 Herb - flowers white - gesneriac

NOT COLLECTED, BUT COMMON, HAS SOME SPECIES OF MARANTHA, HAVING DENSE GLOBOSE  
 HANDS. VERY PRESENT IN STAGNANT WATER. OR THALASSIA - SEE BOT. MUS. LEATH

Macu - Parana - 8/11/43

- X 3077 ✓ Liana - flowers dull orange (3)
- 3078 ✓ Melastomac - liana - flowers white (2)
- 3079 ✓ Herb - Growing on boulders with Podostemonas (3)
- 3080 Oncidium lucidifolium (1)
- 3081 Herb - 1 1/4m. - flowers cream - basal inflorescence (1)
- 3082 ✓ Small tree - 10m. - flowers lavender (2)
- X 3083 ✓ Criocacton? (2)
- X 3084 ✓ Shrub or small tree - 3m. - flowers yellow (3)
- 3085 Epidendrum - terrestrial - flowers red - 10m. (1)
- 3086 Liana - flowers yellow

Mello Franco - Brazil - 8/31/43

- 3087 ✓ Shrub - 2m. - flowers red (2)
- X 3088 ✓ Vine - flowers red (2)
- 3089 ✓ Tree - 20m. - flowers white (2)
- 3090 - Tree - 6m. - flowers white - apocynac (2)
- X 3091 ✓ Tree - 12m. - flowers white (2)



- 3092 Herb to 1m. - flowers white (1)
- X 3093 Tree - 12m. - flowers lavender (2)
- 3094 Woody vine - flowers white (1)
- 3095 Tree - 18m. - flowers white (2)

Bacaricuara - 9/6/43

- 3096 Small tree - 4m. - apocynac - flowers pale cream, tips fused. (1)
- 3097 Saprophyte - Piuridaceae (1)
- 3098 Apocynac - vine - flowers deep yellow - fragrant (3)
- 3099 Brownea - scandent shrub - 3m. (1)
- X 3100 Shrub - 1 1/2 m. - flowers pale lavender (2)
- 3101 Asclepid - flowers pink & white (1)
- 3102 Orchid - terrestrial (1)

Manfort - 8/29/43

- 3103 Epiphytic - strangler shrub "Lij-ca-we" toc. (2)
- 3104 Sapotaceae - cañ mito - "ca-a-ne" toc. - slender tree - 12m. (5) (3)
- X 3105 Pheobroma - tree - 4m. - sepals fleshy - petals maroon. <sup>possibly THEOBROMA GRANDIFLORUM - CHICANO NAT. HIST. MUS. EXHIB.</sup> (3)
- 3106 Annona sp. - fruit with orange pulp <sup>resembling</sup> resembling A. muricata in flower - "cat-arana-pica" toc. (1)
- 3107 Spiny tuberculate annona - tree - 10m. (1)
- 3108 "Guai-tu-to" (geral) "Pi-ca" toc. (1)
- X 3108 Tree - 12m. - flowers pale lavender (3)
- 3109 Ma-ja-wak-puj - see diary - Manfort var. (4)
- 3110 Strangler tree - 15m. - flowers white with maroon centers (3)
- X 3111 Blow-gun cotton - tree - 15m. (2)
- 3112 Tree - 15m. - Barbascos <sup>Fls. like Rose pink. greenish - Fruits Spiny.</sup> (3)
- 3112-A - Tree - 20m - fls. white - (3)

Bacaricuara - Caño Uba - 9/6/43

- 3113 Lepidocaryum - see diary
- 3114 Coatsucuda - see diary

Headwaters of Cuduyasi 12/6/43

3115 Orchid - terrestrial - flowers yellow

Yapobodaí 12/10/43

- 3116 ✓ Bromeliaceae - pitcairnia? - fruits red - terrestrial (2)
- 3117 ✓ Shrub or small tree - 5m. - fruits redish - clusia (2)
- 3118 Aroid - epiphytic - clumps on stones (1)
- 3119 ✓ Burmanniaceae - herb - flowers violet tipped yellow (2)
- 3120 Labellaceae? - flowers blue (2)
- X 3121 ✓ Gentianaceae - flowers pale green (2)
- 3122 Utricularia - flowers pale yellow (2)
- 3123 Juncaceae - Luzula? - flowers yellow (1)
- 3124 ✓ Cassia - low shrub - 3/4m. - flowers yellow (2)
- X 3125 ✓ Droseraceae - drosera - leaves blood red (2)
- 3126 Dictostegia (Burmanniaceae) - flowers cream white (2)
- 3127 Utricularia - flowers yellow (2)
- 3128 Utricularia? - flowers pale lavender (1)
- 3129 Polygalaceae - flowers lavender (1)
- 3130 Eugenia - small tree - 2m. - flowers white (2)
- 3131 Herb - flowers yellow (2)
- 3132 Melastomac - small shrub 4m. flowers purple (2)
- 3133 Utricularia - flowers blue - terrestrial (2)
- 3134 Utricularia - flowers yellow (2)
- 3135 Burmanniaceae - Dicastygia? - flowers blue (2)
- 3136 Lycopodium - (2)
- 3137 Herb - flowers deep blue (1)
- 3138 Sedum? - flowers greenish yellow (1)
- 3139 ✓ Shrub - 2m. (2)
- X 3140 ✓ Byrsonima - tree - 3m. - flowers yellow (2)
- X 3141 ✓ Allibertia? - Rubiaceae - shrub - 2m. - flowers white (3)
- 3142 ✓ Aclepiadaceae - herb - flowers green (2)
- 3143 ✓ Melastomac - flowers deep purple - small tree - 2m. (2)
- 3144 ✓ Loranthaceae - 2m. - on Byrsonima (2)
- X 3145 ✓ Small tree - flowers red - 2m. (2)
- 3146 ✓ Lecythidaceae - tree - 30m. - flowers pink (3)
- 3147 ✓ Herb (2)
- 3148 ✓ Herb (2)

3149 ✓ Eriocaulaceae (2)  
X 3150 ✓ Herb (2)

Rio Cubiyu - 12/8/43

3151 ✓ Ravenala Guianensis - see diary (1)

Yapoboda - 12/10/43

3152 ✓ Hevea - shrub or small tree - 3 m. - flowers yellowish white (6)

3153 Gesneriac - flowers lavender - sandstone crevices (1)

3154 ✓ Apocynac - flowers white to pink (2)

3155 Melastomac - low flattened shrub - 1/2 m. - flowers orange (2)

3156 ✓ Sobralia decora - see diary (2)

Cabeceras del Cuduyari - 11/26/43

3157 ✓ Woody liana - flowers white (3)

X 3158 ✓ Meliaceae? - tree - 25 m. - flowers white (2)

X 3159 ✓ Cassia - tree to 12 m. - flowers yellow (2)

3160 ✓ Tree - 20 m. - flowers orange (2)

3161 ✓ Legume - tree - 25 m. - flowers rose pink - calyx reddish brown (3)

Yupupari Falls - 11/10/43

3162 ✓ Apocynac - vine - flowers deep yellow (2)

3163 Apocynac - shrub - 1 1/2 m. - flowers pink (2)

3164 ✓ Composite - shrub - 2 1/4 m. - flowers yellow - fragrant (2)

3165 ✓ Grass - elevated trunks (1)

3166 ✓ Asclepiad - vine - flowers pink & white (2)

X 3167 ✓ Small tree - 3 m. - flowers deep dull purple (1)

X 3168 ✓ Herb - flowers yellow (2)

3169 ✓ Eriocaulon - flowers white (2)

X 3170 ✓ Bignoniaceae - small tree - 3 m. - flowers white (2)

3171 ✓ Small tree - 6 m. - flowers rose pink - melastomac (2)

3172 Melastomac - herb - stems red - flowers deep lavender (2)

3173 ✓ Tree - 10 m. - flowers pink (2)

Cabeceras del Cuduyari - 11/26/43

3174 ✓ Scandent shrub - 4 m. - flowers white - fragrant (3)

3175 ✓ Tree - 15 m. - Lauraceae - flowers greenish yellow (2)

3176 ✓ Tree - 25 m. - Andisa? - flowers lilac (2)

- 3177 Tree - 12 M. - flowers pink (1)
- X 3178 Cultivated shrub - barbasco - flowers white (2)
- 3179 Woody liana - flowers pink (2)
- 3180 Cyclanthus - epiphytic - flowers pink (1)
- 3181 Bignoniaceae - riverside tree - 8 M. - flowers yellow (1)
- X 3182 Genipa? - tree to 15 M. - flowers white ageing tan (2)
- X 3183 Tree - 25 to 30 M. - stamens pink - "Cun-cun" (cubes)  
fruits used for barbasco

Yapoboda - 12/10/43

- 3184 Eriocaulon (2)
- 3185 Melastomac - shrub - 1 1/2 M. - fruits pink (2)
- X 3186 Melastomac - woody herb - 1 M. - flowers pink (2)
- X 3187 Shrub - 1 1/2 M. - flowers white - fruits red (2)
- 3188 Small tree - 6 M. - probably same as # (2)
- 3189 Melastomac - spreading shrub - 1 M. - fruits  
pink - probably same as # 3155 (2)
- X 3190 Bombac - flowers cream - shrub 2 M. (2)
- X 3191 Lycopodium - creeping plant in open savanna (2)
- 3192 Eriocaulon? - flowers white (2)
- 3193 Shrub - 3/4 M. Melastomac - flowers pink (2)
- X 3194 Shrub - 1 1/2 M. - witches broom - flowers yellow (2)
- 3195 Juncaceae - flowers yellow (2)
- 3196 Dilleniaceae - shrub - 1 M. - fruits red (2)
- 3197 Byrsonima - flowers yellow - woody herb - 1/2 M. (2)
- 3198 Sub-shrub - fruits orange - 1/2 M. (2)
- 3199 Eriocaulaceae (2)
- 3200 Pernettyaceae shrub - 2 M. - fruits yellow (2)
- X 3201 Juncaceae - flowers yellow (2)
- X 3202 Juncaceae - flowers yellow (2)
- 3203 Orchid - terrestrial - flowers yellow (2)
- 3204 Catasatum? - flowers green (1)
- X 3205 Very handsome - blue flowered herb. (4)
- 3206 Herb - flowers green (2)
- 3207 Juncaceae - attacked by orange fungus (2)
- 3208 Eriocaulon - 1 to 1 1/2 M. (2)

X 3209 - A - Herb - fls. yellow

Yurupari - 11/10/43

3209 ✓ Apocynaceae - vine - flowers yellow (2)

X 3210 ✓ Bignoniaceae - liana - flowers white (2)

3211 Eriocaulaceae - flowers white (2)

3212 ✓ Eriocaulaceae - flowers white (2)

3213 ✓ Eriocaulaceae - flowers white (2)

X 3214 ✓ Podostemonaceae - flowers white (2)

X 3215 ✓ Podostemonaceae - flower stems pink - stamens white (2)

Labecerias del Cuduyari - 12/10/43

3216 ✓ Legume - trees - 30 m. - flowers white stamens red (2)

X 3217 ✓ Pae - 6 m. - flowers white - calyx pink - (4)

Rubiaceae

Yapoboda 12/10/43

3218 ✓ Herb - flowers red (2)

X 3219 ✓ Sedge (3)

3220 ✓ Navia? Bromeliaceae - Rocks of Casa del Gallo (2)

3221 ✓ Navia - same location as above (2)

3222 ✓ Epidendrum - flowers rose pink (3)

3223 Bromeliad - navia? - forms branching colonial shrubby clumps - flowers white (1)

3224 ✓ White subsalia - pleasant fragrance (1)

3225 Legume - woody liana - flowers lavender (2)

3226 Shrub or small tree - 3 m. - flowers white (2)

X 3227 ✓ Morantia - shrub - 2 m. - flowers greenish white (2)

3228 ✓ Calliandra - flowers maroon - shrub 1 1/2 m. (2)

3229 Loranthaceae (2)

3230 Small tree - 4 m. (2)

3231 ✓ Annonaceae - tree - 5 m. - flowers greenish (2)

X 3232 ✓ Pae - 5 m. - flowers white (2)

3233 Piliciera? tree - 3 m. - flowers pink (1)

3234 Pae - 4 m. - flowers old rose Fabaceae (2)

3235 ✓ Herb - flowers lavender (2)

3236 Shrub - compositae - 3 m. - flowers lavender (2)

3237 ✓ Amaryllidaceae - shrub - branched - 1 1/2 m. - flowers white (2)

3238 ✓ Asclepiad - flowers greenish (2)

- 3239 ✓ Asclepiad - Flowers greenish tan (2)
- 3240 ✓ Epidendrum S. + P. reddish tan - lip white  
leaves reddish. (2)
- X 3241 ✓ Small tree - 3m - flowers yellow (2)
- 3242 Small tree - 3m. (2)
- 3243 Tree - 4m - flowers greenish yellow (2)
- X 3244 ✓ Phyllanthus - shrub or small tree - 2m. (2)
- 3245 ✓ Shrub - 1m - flowers pink (2)
- 3246 ✓ Asclepid - vine - petals olive green - centers dull  
maroon. (2)
- X 3247 ✓ Vine - river bank - flowers pink  
Cab. Cubique - 12/8/43 (2)
- 3248 ✓ Vochysia - tree - 12m - flowers orange - inflorescence erect (2)
- X 3249 ✓ Shrub or small tree - 3m - Ixistid - flowers  
bright yellow (2)
- 3250 ✓ Bignoniaceae - liana - flowers white (2)
- 3251 ✓ Pourouma - tree - 20m - river bank  
Munipau - 11/10/43 (2)
- 3252 ✓ Astrocaryum acaule - see diary (1)

Rio Cuoyari - 1/20/44 V. H. S.

- X 3253 ✓ Liana - flowers red (3)
- 3254 ✓ Tree - 25m - flowers pale green (4)
- 3255 ✓ Acaulescent or stemless palm - Madonia - 9 live flowers -  
fruit taste - (1)
- X 3256 ✓ Liana - flowers greenish white (3)
- 3257 ✓ Bignoniaceae - flowers pale tan - reticulated deep maroon -  
labellum fringed (1)
- 3258 ✓ Bulbophyllum? - flowers tan spotted brown (1)
- 3259 ✓ Rubiaceae - woody herb - flowers calyx orange,  
corolla bright yellow. (1)

Rio Cuoyari - "YAPOBODA" 1/23/44 -

- 3260 ✓ Small tree - 3m - milky juice - fruits eatable (1)
- 3261 ✓ Small tree - 2m - flowers tan (2)
- X 3262 ✓ Bombax - small tree - 1 1/2 m. (2)

- 3263 Small tree - 1 1/2 m. - flowers pink (2)
- 3264 Shrub - 1/2 m - flowers red (1)
- 3265 *Pernstroemia* - small tree - 3 m. (1)
- 3266 Small tree - 4 m. - fruits purple black (3)
- 3267 Shrub - 1 m. (3)
- 3268 *Maripa?* or *Pithecia* - flowers white (1)
- 3269 Small tree - 3 m. - flowers yellow (4)
- 3270 Herb - flowers greenish yellow (1)
- 3271 *Apocynac* - small tree; 1 1/2 to 2 m. - flowers white (4)
- 3272 Small tree - 2 m. - fruits red brown (3)
- 3273 *Nelovianaceae* - shrub - 1 1/2 m - flowers white (2)
- 3274 *Cyrtopodium* - flowers dull yellow (1)
- 3275 Tree - 4 m - flowers white (3)
- 3276 *Peristrial* orchid - flowers rose purple (2)
- 3277 Palm - *Syngneis?* - Snake trunk - 2 - 4 m - fruiting chestnuts  
 inter-foliarious - pendent - leaves pinnate - about 6-8 (2)

3278 in specimens seen -  
 78 - *MURKIA* - Snake trunk - nodding 6-8 m. Fls (1)  
 very large for the genus - nodding - 6-8 flowers -

YURUPARI - 2/20/44 -

- 3279 79 - Sapote - to 2 1/2 m - (2)
- 3280 80 - Herb - fls. orange - (1)
- 3281 81 - Sapote (4)
- 3282 82 - Grass - (5)
- 3283 83 - *Besneria* - woody herb - 1 m. fls. red - (3)

Rio Quinari - 2/16/44

- 3284 84 - Flowers pinkish white - *Halimolobos?* (1)

*Notes referred to here*

284 - A - *Renneria* - growing in heavy forest

Rio Quersai 2/16/44

3285 - <sup>3285</sup> Gesneriac - growing in termite nests - flowers pale pink (1)

~~3286~~ <sup>3286</sup> Mafaboda - 12/10/43

3286 - <sup>3286</sup> Pitticularia - flowers white (1)

3287 - <sup>3287</sup> Juncaceae - flowers yellow (1)

<sup>3288</sup> Muscupari - 2/20/44

3288 - <sup>3288</sup> Herb - flowers yellow (1)

Rio Quersai 2/10/1944

3289 - <sup>3289</sup> (1) Bad rubber - slender trees to 30 M tall - trunks cylindrical latex yellowish drying pale yellow - bark grey slightly flaking - inner bark yellowish - leaves horizontal with greenish white undersurfaces (1)

3290 - <sup>3290</sup> (2) Good rubber - trunks cylindrical - 30 M tall - bark brownish grey - slightly flaking - inner bark reddish brown - latex pale yellow drying bright yellow - stems

Rio Pisaboton 2/12/44

3291 - <sup>3291</sup> (3) Very good rubber - tree 25 M tall - trunk cylindrical - bark grey slightly flaking - inner bark reddish brown - latex of lower trunk pale yellow of branches bright yellow - leaves erect with whitish undersurfaces - prominent scaly terminal bud.

3292 - <sup>3292</sup> (4) Trunk as in (3291) - bark very hard with sandy texture - grey slightly scaling outer bark - inner bark pale tan.

Rio Napes 2/19/44 - Circasia

3293 - <sup>3293</sup> (5) Bad rubber - slender tree - 20 M tall - latex white drying yellow - leaflets reclinate - green on lower surfaces.

Rio Napes 2/20/44 Muscupari

3294 - <sup>3294</sup> (6) Tree 20 M tall - good rubber - latex white drying neat white - leaves horizontal - juvenile leaves with lavender undersurfaces.

3295 - <sup>3295</sup> (7) Tall tree 30 M - leaflets erect - whitish on lower surfaces rubber good Latex pale yellow

3296 - <sup>3296</sup> (8) Leaflets erect - tree 30 M - rubber good. latex yellow

3297 - <sup>3297</sup> (9) - Latex bright yellow - good rubber - new leaves flacid red - juvenile leaves very large - mature leaves much smaller leaves semi-erect flowers yellow



Rapid Rio Bacuraba 11/4/44

3321. Acaeciad vine flowers dull yellowish green

X 3322. Sedge -

3323. Small tree 3 M flowers pale pink

3324 - Small tree 4 M flowers pale yellow

3325 - Orchid - flowers pale pink.

Villavicencio 1/2/45

3326 - Tree - 10 M - flowers white - legume

X 3327 - Herb - flowers blue

X 3328 - Euphorbia - 15' m. - flowers scarlet

X <sup>3329</sup> ~~3329~~ - Shrub - 1 1/2 m - acanthaceae - flowers white

X <sup>3330</sup> ~~3330~~ - Convolvulaceae - vine - flowers purple

X <sup>3331</sup> ~~3331~~ - Jacaranda - flowers blue purple

X <sup>3332</sup> ~~3332~~ - Composite - shrub - 1 1/2 m.

X <sup>3333</sup> ~~3333~~ - Cassia - shrub - 2 m.

Rio Vajez - vicinity of MITO - 2/6/45

3334 - <sup>10 ft.</sup> Shrub - METASTOMACEAE - COMMON TO SEASONALLY FLOODED  
MARGINS OF CLAMIAS - flowers white -

Rio Vajez - vicinity of MITO - 2/24/45 -

<sup>3335</sup> ~~3335~~ - Bromeliad - Epiphytic - basal sheath BRIST RED -

<sup>3336</sup> ~~3336~~ - PASSIFLORA - VINE Shiny corky - fls. SCARLET -

<sup>3337</sup> ~~3337~~ - HEVEA - TREE - 20 M - RIVER BANK - LATEX PINK

Yellow - Quality very poor - leaves nearly

Horizontal. Curious development of 4 carpels

in single FROSTING BRANCH - UNDER SURFACES

of leaves BRIGHT GREEN - NEW TWIGS RED -

<sup>3338</sup> ~~3338~~ - HEVEA - TREE - 20 M - LATEX PURE WHITE -

Quality weak - leaves nearly horizontal -

UNDER SURFACES WHITEISH -

3298 - (10) Bad rubber - growing in mistizales - Tree 20 M tall  
latex yellow - leaves reclinate - rubber very bad

NOTES TO HARE SENT WOODSON 4/21/46

(NOTE - ALL HORA MATERIAL HAS BEEN SENT TO  
DR. ROBERTO GUERRE SOUTHERN FOR STUDY.)

Rio Cuduyasi 8/15/44

- 3299 - *Acacalis cyanea?* (1)
- X 3300 - Tree - legume - flowers yellow - 20 M (1)
- 3301 - Orchid - flowers <sup>SCYTICARIA STEELIT</sup> very fragrant (1)
- X 3302 - Legume forming thickets along stream banks - flowers white (1)
- 3303 - Tree - 20 M - flowers pinkish white (1)
- 3304 - Small tree or shrub along stream banks - flowers green (1) Dish
- ~~3305~~ (Baccharis rapids) Rio Naptes (~~Guaratapira rapids~~) 12/8/44
- 3305 - Bromeliad ~~acid~~ - spathe dull purple (2)
- X 3306 - Cassia - tree - 15 M - flowers bright yellow (1)
- 3307 - Clusia - tree 5 M - flowers pink (1)
- X 3308 - Tree 20 M - flowers white (1)
- 3309 - *Melastomac* - growing on boulders - flowers pink (1)
- X 3310 - Composit - shrub - 1 M - flowers white (1)
- 3311 - *Sabralia* - 2 M - flowers white throat yellow (1)
- 3312 - Small tree - 4 M - flowers white (2)
- 3313 - Apocynac - vine inflorescences pendant  
bracts pure white - flowers yellow with pink centers (3)
- 3314 - Epiphytic *acid*. (3)
- 3315 - *Hicis* - tree 15 M. (1)
- 3316 - Apocynac - 10 M - flowers white (1)
- 3317 - *Burserima?* - flowers pink - 8 M Common to MAREMAL REBASAS (4)
- 3318 - Small tree - 6 M (1)
- X 3319 - Bromeliad epiphytic (1)
- 3320 Rio Paranapichuna 12/8/44
- X 3320 - Herb - flowers yellow

- <sup>3339</sup> 339 - PASSIFLORA - Fls. SCARLET - (5)
- <sup>3340</sup> 340 - PASSIFLORA - Fls. LAVENDER - (5)
- <sup>3341</sup> 341 - STYCHNOS - HUGE LIANA, COMMON TO RIVER BANKS - Fls. WHITE - FRUITS YELLOW - (5)
- <sup>3342</sup> 342 - TREE - 30 M - Fls. PINK - (5)

NOTES SENT WOODSON TO HAGE 4/24/46

VICINITY OF MITO - YAPES - MARCH 4, 1945  
(with Pedro Lopez)

- 343 - TITIMUSOPS sp - TALL TREE - 30 M - CALLED LOCALLY "MASARANDORA" (10)
- 344 - LUCUMA - TREE - 25 M - STERILE - CALLED "ABIU-RANA" (5)
- 345 - TREE - 25 M - CALLED "TURUBI" (5)

VICINITY OF MITO - YAPES - 3/21/45

- 346 - TREE - 20 M - Sepals & Petals BLUE - Lvs. ROSE PINK - LAMINATE - FRAGRANT - TREES MOST FREQUENT IN LOW - POORLY DRAINED AREAS - (5)
- 347 - VOCHYSIA - TREE - 30 M - FLOWERS ORANGE - MOST FREQUENT ON SLIGHTLY ELEVATED LAND - IN COLONIES - (5)

Oct. 13, 1945

Villaricencio - Road to Restrepo  
5000 m.

<sup>3348</sup> 3348 Small tree - 6 m - Melastomaceae - flowers (6)

<sup>3349</sup> 3349 rose pink  
Gesneriac - corolla tube - salmon red. (3)

<sup>3350</sup> 3350 corolla lobes green.  
Gesneriac - flowers cream white - on steep road side banks. (2)

<sup>3351</sup> 3351 Lycopodium (1)

Oct 21, 1945

<sup>Serrania</sup> Serrania south of San Martín - Int. de Meta  
500 m.

<sup>2352</sup> 2352 Palm - common in forest patches - trunk solitary - ringed - 4 to 5 in. in diameter - unarmored - average 6 to 10 m. height - having 8 to 10 live fronds with no crown shafts - fronds erect with horizontal tips - basal fronds often drooping - spathes 2 to 4 - infra-foliarious - erect or semi-erect, in flower usually pendent in fruit. Flowers straw yellow, fragrant. (Previously seen Napoboda area alto Cuduyasi) (1)

<sup>3353</sup> 3353 Prec. Lauraceae - 15 m. - flowers pale (5)

<sup>3354</sup> 3354 yellow.  
Gentianaceae - flowers pale green to white. (1)

<sup>3355</sup> 3355 Zamia (all specimens seem acanulescent) (2)

2/21/45  
Cuduyasi

Oct. 23, 1945

Road to San Martin near the Rio Ocoa

- \*3356 Bromeliaceae - flowers cream white - <sup>common</sup> ~~common~~  
- to road side banks.
- 3357 Bactris - 12 to 15 ~~ft.~~ <sup>to</sup> ft. dense clumps up to  
40 canes averaging 5 to 6 fronds each.
- 3358 Bactris - average 5 m. dense clumps from  
10 to 40 canes 1 1/2 in. diameter with 5 to 7  
fronds.
- \*3359 Melastomaceae - flowers pink - <sup>side herb</sup> ~~common~~ <sup>herb</sup> road side
- \*3360 Lilia Jessaea - tall herb up to 2 m in <sup>road</sup> road  
side pools - flowers pale yellow.
- 3361 Piliaceae - tree up to 20 m. - flowers white
- \*3362 Maraceviczia - small tree to 5 m. - <sup>scarlet</sup> bracts scarlet  
common.
- \*3363 Nothysia - tree to 25 m. - flowers orange.
- ~~3364~~

Nov. 20, 1945  
Abiu Igatape - COMISSARIA do VAUPE'S - REGION EAST  
OF MITU -

- 3364 - *Acacalis* - sepals + petals blue - labellum lavender
- 3365 - *Passiflora* - flowers scarlet.
- 3366 - Tree - 35 M - flowers yellow - frequent in forest.
- 3367 - Tree - 25 M - flowers orange + legume.
- X 3368 - *Pecoma* - tree - 6 M - flowers yellow.
- 3369 - Liana - apocynac - flowers yellow.
- ~~3370~~

Nov. 21 - 1945  
GUARACAPURI CACHOEIRA, RIO VAUPE'S - REGION EAST OF  
MITU -

- X 3370 - *Strychnos* - liana - flowers cream yellow
- 3371 - *Morantea* - epiphytic shrub - nectaries scarlet
- X 3372 - Sedge - common to upper river (seen in great  
quantity in upper *Curicury* AND *MACU - PARANA*)
- 3373 - Tree - 20 M - flowers green
- X 3374 - Legume - tree - flowers lavender - forming stunted  
trees - 2 M - on granite near cachoeiras - trees  
to 5-6 M. in marginal forest.
- 3375 - Tree - 20 M - flowers white.
- X 3376 - Tree - 30 M - flowers white.
- X 3377 - Tree - 25 M - flowers pink.
- 3378 - Liana - legume - flowers dill purple.
- 3379 - Legume - tree - 10 M - flowers bright pink.
- X 3380 - *Melastomac* - tree - 6 M - flowers white
- 3381 - Liana - flowers white.
- 3382 - *Malpigi* - liana - flowers yellow
- 3383 - Small tree - 6 M - flowers white - frequent on  
flooded river margins.
- 3384 - *Myrsicaceae* - small tree - 6 M - flowers white  
fairly frequent on flooded river margins.
- 3385 - Tree - 15 M - flowers purple
- 3385 - *A. BIFRANCA* - Epiphytic - (1)



- 3399 *Dioscorea* - flowers dull purple  
 3400 Small tree - 10 ft. - flowers green  
 3401 Spreading tree - 10 m - flowers pink - fragrant -  
 fairly common on granite overhanging rapids  
 3402 *Cestria* - shrub - 2 m. - flowers yellow - fragrant  
 3403 *Gentiana* - flowers pale green - common  
 ON GRANITE OUTCROPS -

Nov - 21 - 1945  
 Purohon - ~~Parapara~~ CAHOEIRA - REGRON  
 S-E of MITO - RIO VAOPES - NOV. 21 - 1945

- 3404 - Tree - 20 m - on rocks above rapids - flowers <sup>white</sup>  
 Villavicencio - Dec. 2. 1945  
 \*3405 - Composite - ~~thick~~ woody herb - 1 1/2 m. - flowers  
 pink.  
 3406 - *Clerodendron* - <sup>SCANDENT VINE</sup> ~~vine~~ - flowers pink  
 3407 - *Asclepiad* - flowers white - vine

RIO META - VICINITY OF REMOLINO - AUG. 18, 1945

3407-A - *ROYSTONIA* - TREES TO 25 METERS, AS  
 ISOLATED SPECIMENS, OR IN GROVES, GROWN  
 INTERMIXED WITH *SAPIUM*. 12-16 LIVE  
 FRONDS, CARRIED HORIZONTALLY, WITH DRAGMITE  
 TIPS. TRUNK CYLINDRICAL, WHITE, OBSCURELY  
 RINGED TO 20-24 INCHES IN DIAMETER  
 AT BRADST HEIGHT. CROWN PART ABOUT 2  
 METERS - INFLORESCENCES 2-3 - INFLORESCENCES  
 AT 45° ASCENDING ANGLE - STRANDS UNDOUBT.  
 FRUITS BLACK -

3 1/2 to 4 1/2  
 METERS LONG  
 WITH 700-  
 230 LEAFLETS.

NOTES copied TO HERE  
 11/9/46



Plants

of

Panama

El Valle de Anton 1000 m.  
 March 16, 1946  
 North Side

- 3408 - Palm - 40m - averaging 5 fronds - trunk about 4 in. in diameter (1)
- 3409 - Small tree - 3m - flowers white. (2)
- 3410 - Shrub - Cestrum - flowers yellow - 1 1/2 m (4)
- 3411 - Columnia - epiphytic shrub - shrub - 1/2 m - flowers yellow - undersides of leaves dark red. (4)
- 3412 - Columnia - flowers red - epiphytic (11)
- 3413 - Tree - <sup>SYMPHONIA SLOBODKIFERA</sup> - 30m - guttiferous & yellow latex - flowers dark red - ~~Platanus?~~ (4)
- 3414 - Epiphytic shrub - 2m - Labiaceae? - flowers purple. (5)
- 3415 - Cavendishia - epiphytic shrub - 3m - calyx red - corolla tube white (8)
- 3416 - Platanthallis - flowers maroon (3)
- 3417 - Picea - tree - 30m (4)
- 3418 - Pine - 30m - flowers pink (4)
- 3419 - Pine - 25m - flowers green (3)
- 3420 - Lockhartia - flowers yellow (1)
- 3421 - Rubiaceae - epiphytic herb (1)
- 3422 - Orchid - flowers brown - *Platydictya coriacea* (1)
- 3423 - Schefflera - epiphytic shrub - 1m (4)
- 3424 - Oncidium - flowers yellow (1)
- 3425 - Bromeliad (1)
- 3426 - Pine - *Calocarpum viride?* - 30m - flowers green - NOT VIRIDE - NOT MAROON (10)

(19 numbers) (74 sheets) (5 Septs - etc.)

VICINITY OF PIÑA, HILLS BORDERING TATUN LAKE - 20 M -  
4-7-46

- 3427 - *Diacanthium* - flowers dull purple - (2
- 3428 - Woody liana - flowers lavender - growing  
in tops of large trees -
- 3429 - *Puce* - 120 M - flowers tan
- 3430 - *Geonoma* - single trunk - 2 1/2 in in  
diameter - 3 M. tall BIVERVIA
- 3431 - *Passiflora vitifolia* - vine - scarlet  
flamboy
- 3432 - *Combretum* <sup>occipitum</sup> - large woody vine - flowers  
red

Swamps bordering Rio Chaguan  
Vicinity of Port San Lorenzo - 0 M.

- 3433 - *Saurauha* - (mangroviaceae) - woody  
liana - bracts orange -

VICINITY OF CERRO JEFE - RANGE BACK OF  
PACORA - 600 M - 4-23-46

- 3434 - *ENTEROLOBIUM* <sup>SULLOXBURKII - FIRE BOB SCHEM</sup> - TREES AVERAGING 25 METERS -  
Flowers sessile, white. CALLED "BUABINO".
- 3435 - *GEONOMA* - AVERAGE 2 1/2 M - 12-15 FRONDS.  
TRUNKS SOLITARY - 1-1 1/4" DIA. INFLORESCENCES  
pendent. Common - Secondary to. COSTATIENSIS
- 3436 - *TERMINALIA* <sup>CHIRIQUENSIS</sup> - TREES AVERAGING 25 METERS -  
LEAFRA PANIENSIS STANLEY & LINDS.
- 3437 - *SAURAUHA* ? - TREES - TO 20 M. Flowers  
white - FRAGRANT

*Symphonia strobilifera* L.F.

3438 - ~~RHIZOMA~~ - TREES AVERAGING 20 M.  
In Rowina in periodically flooded MARSH of  
Swamp.

3439 - LAURACEAE. Small TREES - 10 M -

3440 - BACTRIS - STOLONIFEROUS - 3-4 CANES - 1 1/2"  
DIAMETER - TO 5 M tall. Spines on CANES  
in nodes 5" apart - Crowns of 5-6 live  
FRONTS - seems closest to *B. Divisicarpa*

VICINITY OF PACORA - 25 M. Flowered  
in the collection of GRHAM FAIRCHILD  
5/9/46

3441 - ONCIDIUM PANAMENSE? <sup>Spikes, petals & labellum of</sup>  
<sup>SEP. marked RED-BROWN. Callus</sup>  
3442 - ONCIDIUM - PLANTS IDENTICAL WITH *O. PANAMENSE*  
Flowers similarly colored, but different in <sup>color</sup> <sub>where</sub> <sup>form</sup>

VICINITY OF SAN CARLOS - 100 M. Flowered  
in the collection of MR. HARRY BUNN. 4/20/46

3443 - EPIDENDRUM <sup>MONICA</sup> ATROPURPUREUM <sup>willd.</sup> VARIETY WITH DEEP  
DARK PURPLE Spikes & petals & very DEEP UNMARKED  
ROSE LABELLUM. Pickle - (1)

VICINITY OF TAMBOA, CANAL ZONE - 100 M.  
5/13/46

3444 - ORCHID - EPiphytic - Flowers white (1)  
*Campylocentrum micranthum* (Lindl.) Rolfe

VICINITY OF PACORA - Prov. of PANAMA - ABOUT  
0 - 20 MI. - 5/12/46

- 3445 - TREE - 6 m - Fls. of *Keaythales* Red - (7)  
3446 - FIGUS - LARGE SPREADING TREE <sup>20M</sup> TRUNK LIKE *F. nitida* - (17)  
SWAMP NEAR COAST -  
3447 - BANISTERIA <sup>Laurifolia L.</sup> - LARGE WOODY LEVER - Fls. yellow - (12)  
3448 - SHRUB - 3 m. Fls. white - (13)  
3449 - LIRIA - Fls. white - FRAGRANT - (15)  
3450 - COCCOLOBA - TREE OR SCANDENT TREE - 10 m.  
Fls. green - slender trunks resembling all  
OTHER TREES ALONG STREAM BANKS. (11)  
3451 - TREE - 20 m - SAPINDACEAE - FRUITS RED (10)  
3452 - RUBIACEAE - SHRUB - 1/2 m - on boulders in stream  
Buds - flowers white - *LINDAWIA RIVAE'S BENTH.* (10)  
3453 - TREE - 10 m. Flowers white - (12)  
3454 - CHOCIA - TREE - 15 m. (9)  
3455 - CORDIA - flowers tiny (2 mm) yellow - fruits red  
conspicuous. (5)  
3456 - CATASETUM VIRIDI FLAVUM - STAMINATE Fls. (1)

HANO DEL VOLCAN - PROVINCE OF CHIRIQUI  
1500 - 1600 m. 5/27/46 WITH R. B. FAIRCHILD

- 3457 - *ELLEANthus* - ON BANKS of volcanic ASH &  
Boulders - Fls. yellow - (10)  
3458 - TREE - 6 m - Fls. yellow - (10)  
3459 - *PERNETIA CORIACEA* - Fls. white - (8)  
3460 - ERICACEAE - SHRUB OR SMALL TREE - 4 m. Fls.  
<sup>3461</sup> white - (6)  
3461 - SHRUB - 1 1/2 m. (8)  
<sup>3462</sup> 3462 - ERICACEAE - SHRUB - 2 m. Fls. pink. (5)  
<sup>3463</sup> 3463 - ERICACEAE - SHRUB - 3 m. BRACTS PINK -  
COROLLA TUBES PINK - COROLLA LOBES WHITE. (10)

- 3464 - QUERCUS - 10 m, IN ROCKY HORN (15)
- 3465 - QUERCUS - TREE - 20 m, (6)
- 3466 - TREE - 15 m, ANACARDIACEAE? - SCALING (10)
- 3467 - QUERCUS - 20 m, IN ROCKY HORN - (9)
- 3468 - ALNUS - TREE - TO 25 m, SCATTERED, BUT FORMING NEARLY PURE STANDS <sup>ON SLOPES</sup> AT HEAD OF HORN - 2500 m. (17)
- 3469 - SHRUB - 3 m, VIBURNUM? - FL. PINK - (3)
- 3470 - SHRUB - 2 m, FL. LAVENDER - (6)
- 3471 - SHRUB OR SMALL TREE - VIBURNUM? - 4 m, FL. WHITE - (5)
- 3472 - SOBRALIA - ON BOULDERS - S.P. WHITE - LIP YELLOW - WITH ORANGE LINES (3)
- 3473 - SOBRALIA - ON VERTICAL ASH & GRAVEL BANKS S.P. WHITE - LIP YELLOW (2)

Cerro Punta - Chiriqui Province  
 Headwaters of Rio Chiriqui Viejo -  
 2000 m. 5/28/46

- 3474 - ERYTHRINA CHIRIQUENSIS - TREE - 25 m, FL. RED - SEE WOOD SAMPLE - (5) (5)

VICINITY OF CONCEPCION, CHIRIQUI PROVINCE  
 100 m. 5/29/46 WITH G.B. FAIRCLOD

- 3475 - SAPIUM - TREE - 10 m. (15) (15)

VICINITY OF REMEDIOS - CHIRIQUI PROVINCE  
 100 m. 5/30/46 WITH G.B. FAIRCLOD

- 3476 - TREE - LEGUMINOSAE - 20 m, F. SCHWEIBER (5)
- 3477 - TREE - 15 m, CILASTRACEAE - (8)
- 3478 - BRANCHING - EPHYTIC - NEW LEAVES RED - FL. BLUE (4) (4)

Cerro Punta - Chiriqui Province - 5/24/46  
2000 m. with A. D. B. Fairchild

- 3479 - EPIDENDRUM - CANES TO 1 m. Fls. GREEN - (1)  
3480 - STAKIS - Fls. RED-BROWN - (1)  
3481 - PLEUROTALLIS - Fls. MAROON - (1)  
3482 - OCOÏEA - TREE - 30 m. (15)  
3483 - MELASTOMACEAE - SMALL TREE - 4 m. Fls. WHITE (13)  
3484 - BEYONIA - 75 cm. Fls. WHITE - (17)  
3485 - ARDISIA - TREE - 15 m. Fls. PINK - (12)  
3486 - NETTLE - 2 m. Fls. ORANGE - (1)  
3487 - ISERTIA - SMALL TREE - 3 m. Fls. PURPLE - (10)  
3488 - EPiphytic FERN - (2)  
3489 - SHRUB - 75 cm. Fls. RED - (4)  
3490 - LAURACEAE - TREE - 30 m. (4)  
3491 - QUERCUS <sup>colayensis</sup> TREE - 30 m. (8)  
3492 - MELASTOMACEAE - TREE - 12 m. Fls. PALE GREEN -  
NEVER EXPANDING - WITH NOODLING, SEMI-CAMPANULATE FORM (11)  
3493 - LOCKHARTIA - Fls. yellow - with RED-BROWN spots - (1)  
3494 - ERICACEAE - EPiphytic SHRUB - 2 m. Fruits purple - (7)  
3495 - RUBUS - 4 m. Fruits BLACK (3)  
3496 - QUERCUS - TREE - 30 m. (39)  
3497 - MELASTOMACEAE - TREE - 15 m. Fls. purple - (18)  
3498 - ASCLEPIAD - VINE - Fls. GREEN (6)  
3499 - LEAUME - VINE - SEEDS RED - (2)

Llano del Volcan - 1500 m. 5/27/46  
with A. D. B. Fairchild

- 3500 - CHRISIA - TREE - 8 m. EDGE OF BARRANCO - (7)  
3501 - TREE - 6 m. Fls. WHITE - CLETHRA? LANATA (10)  
3502 - LOCKHARTIA - Fls. yellow - spotted RED-BROWN - (3)  
3503 - CHRISIA - TREE - 6 m. COMMON OR PAUCIFLOW  
ASSOCIATED WITH CLETHRA LANATA - (7)  
3504 - MAXILLARIA - Fls. TAN - (1)

Cerro Punta - 2000 m. Chiriqui Province  
Headwaters of the Rio Chiriqui Viejo  
IN COMPANY WITH GRHAM FAIRCHILD - 5/23/46  
ARBORESCENS SIMO.

- 3505 - FUCHSIA - SHrub OR small tree - 4 m.  
Fls. Purple - (29)
- 3506 - PASSIFLORA - VINE - BRACTS BRIGHT PINK  
Fls. Pale Green - (3)
- 3507 - TREE - 10 m. Fls. GREENISH TAN. (10)
- 3508 - LAURACEAE - TREE - 30 m. (5)
- 3509 - SOLANUM - Herb - 50 cm. Fls. TAN - (5)
- 3510 - NOLANEA - EPiPHYtic SHrub - NECTARIES RED.  
Fls. TAN - Pollinated BY HUMMINGBIRDS - (6)

VICINITY OF Remedios - Chiriqui Province  
100 m. 5/30/46 - WITH GRHAM FAIRCHILD

- 3511 - BRASSAVOLA NOBOSA - Fls. WHITE - (1)
- 3512 - CATASETUM <sup>ORCHIDACEAE</sup> ~~TRIPLODENDRON~~ - Fls. FROM  
GREENISH TAN SPOTTED RED - BROWN TO  
RED-BROWN - SPOTTED GREENISH TAN (2)
- 3513 - STENORRHYNCHUS ORCHIOIDES L.C. RICH.  
TERRESTRIAL - FREQUENT IN SMALL COLONIES ALONG  
HIGHWAY - SCAPES OF SALMON PINK Fls. WITHOUT  
LEAVES. (3)

Llano del Volcan - 1500 m. 5/27/46  
WITH GRHAM FAIRCHILD

- 3514 - EPIDENDRUM - LATILABRE Lindb. Fls. GREEN - (2)
- 3515 - EPIDENDRUM PARKINSONIANUM Hook. (Foliatum?)  
PLANTS PENDANT - S. & P. Pale GREENISH YELLOW  
LABELLUM WHITE - (13)
- 3516 - PLEUROSTACHYS - Fls. DARK RED - (1)



Cerro Punta - 5/24/46 - 2000 m <sup>with Krafft</sup>  
Fairchild <sup>2500m</sup>

Calcutta

- 3517 - ~~Ternstroemia~~ ~~Orchid~~ - Fls. white - ~~Orchid~~  
~~Pteris~~ ~~Sp. ?~~ ? *Mexicana* (1)
- 3518 - *BIGNONIACEAE* - Epiphytic colonial Herb  
50 cm. Fls. pale green - spotted red - (10)
- 3519 - *CENTROPOGON* - Herb - 1 1/2 m. Tube red -  
lobes yellow (7)
- 3520 - *Heliconia* - 3 m. Bracts laquear red -  
Fls. green - (4)
- 3521 - Palm. Seen only at about 2500 m. on  
Boquete trail - STOLONIFEROUS - 40-20 CANES  
in clump. Green - unarmed - 1/4 - 1/2" diam.  
Average 3-4 m. tall. Very common -  
Average 5-6 fronds. (5)
- 3522 - *EPIDENDRUM* - Fls. tan - see Pickle (1)
- 3523 - *Quercus* - Trees 30 m. tall - (5)
- 3524 - Palm - Solitary trunk - 1" diam. 3 m tall  
unarmed - Average 5-6 fronds - Fruits green - (2)
- 3525 - Palm - 3 m. Solitary trunk - 3/4" diam. Green  
unarmed - Fruits orange - (2)
- 3526 - *PALICOUREA* - Shrub - 4 m. Fls. yellow (10)
- 3527 - Herb - 2 m. Fls. yellow - (9)
- 3528 - *BIGNONIA* - Epiphytic colonial Herb  
Also found on rocks in stream beds.  
Fls. yellow. (18)
- 3529 - Tree fern - 4 m. About 12 fronds.  
Trunk 6" diam. - Fronds about 3 m. long. (4)  
(Specimens in each case of base - basal  
pinnae - mid-section pinnae & tip.)
- 3530 - *Smilax* - To 3 m. tall. (6)
- 3531 - Palm - "Maguey" Single trunked or  
very weakly stoloniferous at 1500-2500  
m. elevation - becoming with developed  
stoloniferous specimens having 6-10 <sup>trunks</sup> ~~trunks~~  
at 2500-3000 m. in heavy rain forest

3531 - (CONTINUED) AVERAGE HEIGHT 10-12 M.  
TRUNKS UNARMED - RINNED (GREEN IN JUVENILE  
SPECIMENS) MATURING GREY - 6" DIAM. CROWN SHEATH  
VERY PROMINENTLY DEVELOPED - PURPLE-BLACK -  
INFLORESCENCES INFRAAXILARIES, 2-4 IN NUMBER -  
LIVE FRONDS 6-8 - MORE OR LESS HORIZONTAL -  
(SEE PHOTO) FLOWERS PINK (SEE PICKLE)  
MATURE FRUITS BLACK (SEE PICKLE)  
VERY COMMON - (CROWN SHEATH SPLIT 2  
LONGITUDINALLY INTO TWO EQUAL HALVES -  
WHICH WERE EACH CUT INTO THREE TRANSVERSE  
SECTIONS FOR SPECIMENS.) SPATHES 2 -  
(ONLY ONE COMPLETE SPATHE COLLECTED BUT  
IN THREE TRANSVERSE SECTIONS, SPLIT LONGITUDINALLY  
FOR CONVENIENCE IN PRESSING.)

El Valle de Volcan - 1500 M. MAY 23, 1946

3532 - *Epidendrum citinac* - 2 Z

VICINITY OF CONCEPCION - CHIRIQUI PROVINCE  
100 M. 5/29/46 - WITH FRANKLIN FAIRCHILD

3533 - *Cryptophranthus* - NOT *C. lepidopus* OR  
*C. Powellii* - FR. BROWN - (PICKLE) 10 ~~10~~  
ON RIVER BANK TREES - COMMON -

El Valle de Atotonilco - NORTH HILLS - 1500 M.  
JUNE 16, 1946 -

3534 - TREE - 15 M. FL. WHITE - LAURACEAE?  
Fairly common on steep slopes of hills  
Facing El Valle - 15 ~~15~~

3535 - *Adisia Seibertii* - SHrub - 3 M. FL. LAVENDER - 4

3536 - ARDISIA - SHRUB - 2m. Fls. white - (13)

El Valle de Anon - Dry Forest Hills  
700m. JUNE 15, 1946

3537 - SOURSBEA - STOUT, BRANCHING LIANA -  
Fls. cream yellow - FRAGRANT - (25)

El Valle de Anon - NORTH Hills - 1000m.  
JUNE 16, 1946 -

3538

3538 - VINE - in trees (Ficus wilsonii) 15m.

3539 Fruits yellow - (5)

3539 - LYCASTE macrophylla Link. (L. POWIANA  
EAMES & ROTH. F.) 3-4 ft. olive - deep  
white -

3540 - <sup>3540</sup> EPIDENDRUM RADICANS Ruiz & Pavon - in  
BRASS - Fls. ORANGE - (3)

3541 - <sup>3541</sup> SOURSBEA - EPiphytic STOUT BRANCHING  
LIANA OR SHRUB - Fls. ORANGE - (12)

SAN JOSE Island - PANAMA Bay - 20m.

Collected by MR. WALKER - BALBOA - C. Z.

Flowered in his collection June 1, 1946

3542 - <sup>3542</sup> CYRTOPODIUM punctatum - (PICKER. Fls.) (1)

El Valle - NORTH Hills - 1000m. 6/29/46

3543

~~3543~~ - BELOTIA, probably B. PANAMENSIS PITTIER - TREE  
15m. Fls. Purplish lavender. Sometimes FOLIAGE  
NEARLY pure GREEN on wet over land - (27)

3544 - <sup>3544</sup> RUBIACEAE - SHRUB - Fls. BRILLIANT BLUE  
1m. tall. PROBABLY FARAMEA EURYCARPA D. SM. (1)

- 3545 - *Broussaisia* - Epiphytic - BRACTS SCARLET - (29) (25)
- 3546 - *Conostegia KALAPANIS* (Boypl.) Don  
TREE - 4 m. Fls. white - common - (21) (21)
- 3547 - *Heliconia villosa* Klotzsch - 1 1/2 m. BRACTS  
HERBACEOUS, BRINDT yellow, apex SCARLET. Fls. yellow. (10) (10)
- 3548 - *Aphelandra Seibertii* Leonard - Common Herb - Fls.  
LAVENDER. (15) (15)
- 3549 - *Costus Nutans* K. Sch. About 75 cm. TALK  
BRACTS yellow - Fls. yellow - (10) (10)
- 3550 - *Lochneria obtusata* L. Wms. 2.5 m. Lip BUTTER yellow.  
Lip with orange. Callos. (SEE flower in pickle) (1) (7)
- 3551 - *Cavendishia stenophylla* A.C. Smith - Epiphytic  
BRANCHING SHRUB - 1 1/2 m. Fls. purple - (3) (3)
- 3552 - *Ascladiad* - vine - Fls. lavender - (1) (7)
- 3553 - *Heliconia Fernand* Changes in dense shade often  
of 4-6 canes - to 2 m. TALK - canes with  
clotted with slender leaves having a whitish  
midrib - BRACTS orange, ORANGE, often with  
TRANSLUCENT white. Flowers prominently  
exserted - long - slender - pure white - (1) (7)
- 3554 - *Columna Allenii* Morton - Epiphytic - of long  
pendant chains of succulent leaves - Fls. SCARLET (7) (7)
- 3555 *Alloplectus panamensis* Morton - woody herb  
growing as open colonies in dense shade - 1 m tall  
Fls. SCARLET. (4) (4)
- 3556 - *Anthopteropsis insipida* A.C. Smith - Stout <sup>erect</sup>  
BRANCHING Epiphytic SHRUB - fleshy calyx ~~brilliant~~  
pink - corolla yellow - (20) (20)
- 3557 - *Drymonia* sp. - Stout BRANCHING Epiphytic SHRUB  
Fls. with heavy rose purple petalation - (5) (5)
- 3558 - RUBIACEAE? - BRANCHING Epiphytic SHRUB  
1 1/2 m. leaves succulent - Fls. solitary -  
terminal, salmon pink. (3) (3)
3559. *Cavendishia tankmaroides* A.C. Smith  
Epiphytic shrub - 1 m. BRACTS RED - Fls.  
tube yellow - (3) (3)

3560 - MASPETHIA COLLINA D. WMS. Epiphytic - TUFTED -  
Fls. RASIN purple with yellow SPURS - (5)

3561 - ARDISIA SEIBERTII STANCH. SHRUB - 2 m. BRACED  
TUFTED, Fls. pinkish lavender - (30)

3562 - TERRESTRIAL PLANT - IN MASS ON LOMA DEL TIENE  
NORTHERN SPINES ERECT - S.Y.P. PINK GREEN - LIP WHITE, MARKED

Kellermanian lavender. (see picture) - STRIKE PLANTS SEEN ON  
CARRO JEFF. (SEE PICTURE) **EULOPHIA??** SEE ALSO  
NO. 3791 (1)

3563 - ANTHURUM AFF. LITTORALE ENTLER. Epiphytic - (1)

- 3564 - TRIENOPHIA LAUCOXANTHA D. WMS. - Epiphytic  
Fls. pure white, Labellum with lance yellow  
SPLOTTED IN THROAT. (see picture) (1)

3565 - CHEISTES ROSEA SOL. in MASS ON LOMA DEL TIENE  
Sepals greenish lavender - petals ROSE lavender  
lip STRONGLY NETTED ROSE lavender - COMMON (5)

EL VALLE - FLOOR - 600 m. 6/28/46

3566 - ALLENANTHUS ERYTHROCARPUS STANCH. TREES -  
15 m. Fls. white - COMMON - (50)

3567 - NANAKIA NODOSA MART. & DAL. - SHRUB - TO 4 m.  
Fls. REDDISH ORANGE - VERY COMMON ALONG TRACKS  
IN SECOND GROWTH - (3)

3568 - SOLANACEAE? - VINE - FRUITS SCARLET  
LUCIANTHUS ACIDOTHONDRIUM BITTER (10)

EL VALLE - NORTH - 6/29/46

3569 - ELLEANTHUS HYMICOPHORUS REHB. F. Epiphytic  
Fls. ORANGE - LIP EDGED SCARLET. (1)

HILLS SOUTH OF EL VALLE - 800 m. 6/28/46

3570 - ~~MYRTIA COSTARICENSIS?~~ ILEX PANAMENSIS STANCH.  
- SMALL TREE - 3 m.  
Fls. white, COMMON - (12)

VICINITY OF CAMPANA - 25 m. 6/28/46 -

~~PHAYANOMYDIA COYMBOSA~~  
3571 - ~~ARABIDAEA~~ ~~ISTHMIANA~~ STANDL. WOODY VINE,  
Fls. PINK - Very showy - (16) (16)

FRANCOFLORA  
3572 - ODONTADENIA SPECIOSA BENTH. LARGE WOODY  
VINE - Fls. yellow - (6)

VICINITY OF LA CHERRERA - 25 m. 6/28/46 -

3573 - RUBIACEAE - TREE - 8 m. Fls. white, very  
FRAGRANT (30)

EL VALLE - NORTH KILKS, 1000 m. 6/29/46

3574 - MAGNOLIA ALLENII STANDL. TREES - TO 30 m.  
WITH BUTTRESSED TRUNKS - FLOWERS CREAM  
WHITE - (SEE PICKLE OF FLOWERS & FRUIT.) (50)

3575 - ORCHID - EPiphytic - PLANTS RESEMBLING PLAUNOTHALIS.  
FLOWERS PRODUCED ON A SHORT SCAPE AT THE  
BASE OF THE STEMS, PENDANT, OF 5-6  
DULL PURPLE FLOWERS REMINISCENT OF  
CRYPTOPHORANTHUS EXCEPTING THAT THE  
SEPALs ARE NOT ADNATE AT THEIR TIPS -  
LIP ARTICULATED - POSSIBLY AN UNRECORDED  
GENUS. (SEE PICKLE) (2)

3576 - AECHMEA ALLENII L.B. SMITH - FRUIT CAPSULES  
BLACK - BRACKS PAPER WHITE - COMMON - (1)

EL VALLE - FLOOR - 600 m. 6/29/46

3577 - CRINUM DARIENSIS WOODSON - (1)

NOTES COPIED  
TO HERE 7/10/46  
RE-SAND  
3568

TRANS - Isthmian Highway - NEAR RIO HATON - 100 m  
Cobon Province - July 11, 1946

3578 - RUBIACEAE - TREE - 6 m. Flowers white - (5)

VICINITY OF CAMP PINTA - COBON PROVINCE - 7/11/46

3579 - BIGNONIACEAE - Herb. Terminal colonies on wet  
shaded banks. Flowers pale lavender. (7)

3580 - PANTAGONIA MACROPHYLLA Benth - SHRUB - 2 m.  
Calyx red - corolla yellow - common (5)

3581 - Heliconia villosa Klotzsch - variety with  
yellow bracts edged red - 3 m tall - (3)

3582 - Heliconia villosa - red variety - bracts red  
on entire outer surfaces - yellow blotch  
near flowers within bract - 3 m. (6)

3583 - Heliconia psittacorum? - 3 m - bracts  
red - flowers large, prominently exserted -  
yellow, with green tips - this seems  
to intergrade with H. straminea - different  
only in average larger size, number of  
bracts & color - (see Pickle) (9)

3584 - GRASS - common on roadside banks -

3585 - ISERTIA HAENKEANA DC - SHRUB - 2 m. Calyx  
red - corolla yellow - common - (7)

3586 - EUPHORBIACEAE - SHRUB - 1 1/2 - 2 m. Fls. white  
common - (10)

3587 - COSTUS LEVIS - 3 m - fls. reticulated  
purple - common - (1)

3588 - ASCLEPIAD - VINE - fls. lavender. (3)

3589 - Stout herb - 3 m. Rays out to <sup>777</sup>GRASMA  
DASYCARPA (DOWNSM.) WOODSON OR STROMANTHE LUTEA (12)

3590 - Heliconia - clumps of slender <sup>leaves</sup> <sup>fruits orange</sup> foliaceous canes  
2-4 m. Bracts orange - fls. white (see Pickle) (11)

3591 - VINE - fls. pale lavender - in tangled wind-  
blown shrubs on sea cliffs. (5)

- 3592 - RUBIACEAE - PROUMBENT SHRUB - 3m, Fls. white - ON WIND-BLOWN SEA CLIFFS. (6)
- 3593 - ~~Hydrocotyle~~ <sup>BONARIENSIS</sup> ~~NUMBOTTIANUM (HBK) HUNTER ?~~ WET AREAS BACK OF SEA BEACHES - Fls. white - (12)
- 3594 - PATICOUREA GUIANENSIS AUBL. - SMALL TREE - 6m. Flowers yellow - (20)
- 3595 - COSTUS - 2m. Fls. ORANGE - (see Pickle) (3)
- 3596 - ~~RUBIACEAE ?~~ <sup>Xylocopa PANAMAYENSIS TURON ?</sup> - Small WINDBLOWN TREE - 1-3m. Fls. white, ON SEA CLIFFS - (5)
- 3597 - CITHAREXYLUM CAUDATUM L. - COMMON SHRUB - 3m. Fls. white, FRUITS ORANGE - (19)

El Valle - NORTH - 7/20/46 - 1000m.  
Rio Indio TRAIL - WITH HARDO TRAJIDO

- 3598 - CAUVENISTIA LENTIFLORA PENN. SIM. - Epiphytic SHRUB - SPREADING BRANCHED 2m. BRACTS PINK. (5)
- 3599 - HALICONIA - 2m. BRACTS RED - Fls. GREENISH yellow - (~~the same as 3583~~) PROBABLY A FORM OF # 3583 - (see Pickle) (2)
- 3600 - HALICONIA - 1 1/2 m. BRACTS BROAD - BEAT-LIKE - ORANGE Flowers yellow - (see Pickle) (2)
- 3601 - Epiphytic HERB - 1m. Fls. terminal - <sup>Salmon</sup> pink. (see Pickle) (1)
- 3602 - UTRICULARIA ENOREZII REHB. F. - Epiphytic Fls. pale lavender - yellow blotch AT BASE OF LABELLUM - (1)

Hills south of El Valle - 400m.  
7/20/46

- 3603 - PATICOUREA TRIPHYLLA - DC. SHRUB - 1 1/2 m. Fls. pale ORANGE - (22)



VICINITY OF CARRO PUNTA - CHIRIQUI PROVINCE 2000 M.  
(FLOWERS IN JARROA, C. Z.) COLLECTED BY STATHAM  
FAIRCHILD. 7/25/46

<sup>3604</sup>  
~~3604~~ - ZYDOPETALUM GRANDIFLORUM - NEW RECORD  
FOR PANAMA. S. & P. GREEN - STRIPED RED -  
BROWN - LABELLUM WHITE, WITH PURPLE LINES  
& YELLOW CRESTED CALLUS - COLUVA WHITE,  
THE UNDER SURFACE WITH DELICATE RED & YELLOW  
PUNCTATE LINES CONVERGING ON THE CRESTED CALLUS,  
WITH LATERAL BANDS OF DELICATE PURPLE PUNCTATE  
LINES. (SEE FLOWER IN PICKLE) (1)

VICINITY OF LA PONTA - COCA PROVINCE - 7/31/46 - ABOUT  
300 M.

<sup>3605</sup> <sup>very common</sup> <sup>along highway from ANTON - TO SANTIAO</sup>  
~~3605~~ - TREE - 15 M. FLOWERS WHITE - FRAGRANT. (25)

<sup>3606</sup> <sup>3606</sup> VISMIA TUIANENSIS (AUBL.) PEARL. TREE - 4 M.  
CALYX BROWN - COROLLA <sup>pale</sup> GREEN - (4)

<sup>3607</sup> <sup>3607</sup> DURANTA REPENS L. SHRUB - 4 M. FL. BLUE -  
FRUITS ORANGE - (3)

<sup>3608</sup> <sup>3608</sup> ANTHOXYLUM SETULOSUM P. WILSON - TREE - 15 M.  
TRUNK WITH NUMEROUS SUB-CONICAL COARSE SPINES -  
HAVING VERY BROAD BASES - COMMON - (8)

VACAMONTE POINT - PANAMA PROVINCE - 100 M. 8/1/46 -

<sup>3609</sup>  
~~3609~~ - CRYOSOPHILA WARSCEWICZII (Wendl.) BARTLET - PALMS  
20 - 35 FT. SINGLE TRUNK - 5" DIAM. LOWER 8 - 15 FT.  
DENSELY COVERED WITH LENT BRANCHING SPINES - WHICH  
REPRESENT A CONTINUATION OF THE BASAL CONC OF  
ROOTS - UPPER TRUNK RINGED - STAY - UNARMED -  
AVERAGE - 15 - 20 LIVE FAN FRONDS - SILVER ON  
UNDER SURFACES - INFLORESCENCES INFRA-FOLIACIOUS  
1-3 - FLOWERS & BRACTS CREAMY WHITE  
VERY COMMON IN FOREST - PROBABLY SEEN BY  
SPEERMAN & MISTAKEN FOR THRIXAX ARDENTEA (2)

3610 - Heliconia - 1 1/2 m. BRACTS BROAD - Keel'd - BOAT-LIKE -  
GREENISH yellow TURNING PINKISH WITH AGE -  
Flowers pubescent, prominently exserted - Pale  
yellow - TIPS DARK GREEN - STAMENS EXserted -  
(see pickle) (6)

3611 - HELICONIA ROSTRATA R. & P. (Heliconia platybrachy's BAKER  
in STANLEY FL. CANAL ZONE). SHOOT PLANTS TO 3 1/2  
CANES SILVERY DRY - INFLORESCENCES PANICULATE,  
BRACTS RED WITH yellow TIPS & MARGINS - RACHIS  
yellow - Flowers with TIPS EXserted - yellow -  
FRUIT Blue - COMMON - (2)

VICINITY OF LA CHORRERA - 100 m. 7/31/46

3612 - TREE <sup>COUMBOUNA PANAMENSIS</sup> - LEAVES - 25 m. Flowers pink -  
(see pickle) (50)

RIO LAS LASAS - PANAMA Province - 20 m. 8/4/46

3613 - BIGNONIAE - Fl. ROSE PINK - LIANA (11)

EL YATTE - 600 m. VCTY. FINCA TOMAS ARIZA -  
8/5/46

3614 - Heliconia - DENSE clumps - 3 1/2 - 4 m. INFLORESCENCES  
PANICULATE - RACHIS DARK RED - BRACTS DARK RED -  
Fl. yellow - TIPS EXserted - FRUIT Blue - BASE of leaves  
ACUMINATE - COMMON - (see pickle) (5)  
BRACTEOLS PRESENT

3615 - Heliconia - 3-4 m. UNDERSIDES of leaves PURPLE  
INFLORESCENCES erect - TERMINAL on LONG STALK -  
1 1/2 m. ON BASE AS IN RENEALAIN - BRACTS  
SLANDER - DARK GREEN - Fl. ROSE PINK - WITH  
WHITE TIPS - FRUIT <sup>DARK</sup> BLUE - Fl. prominently  
EXserted - BRACTEOLS PRESENT - (see pickle) (4)  
BASE of leaves ACUMINATE FRUIT <sup>DARK</sup> BLUE -

3616 - Heliconia - 1 - 1 1/4 m. INFLORESCENCES ERECT.  
 RACHIS & BASE OF BRACTS RED - TERMINAL BUD OF  
 UNOPENED BRACTS & OUTER 2/3 OF BRACTS YELLOW -  
 FLOWERS PURPLISH YELLOW - TIPS EXsertED -  
 BRACTS PRESENT. BASE OF LEAVES ROUNDED.



(see pickle)

(2)

3617 - URERA CLATA (SW.) DRISD. SHRUB - 2 - 3 m.  
 FLs. PINK - FRUITS ORANGE - SHOWY -

(6)

3618 - CALAThea INSIOnI'S Peters. 7 m. BRACTS STRAW  
 YELLOW - FLs. pale pink to straw yellow -  
 COMMON -

(3)

3619 - POTthOMORPHE peltata (L.) MIGUEL. 1 1/2 m.  
 COMMON -

(4)

3620 - CUCURBIT - corky Liana - FLs. ORANGE -

(7)

3621 - COMPOSITE - woody HERB - 4-5 m. FLs. DIRTY  
 WHITE - CLIBADIUM APPRESSIPILUM BLAKE? -

(3)

3622 - FRYTHARINA TIBBOSA CUFONTIS - TREES - 5-6 m.  
 FLs. SCARLET - COMMON -

(4)

3623 - CARLUDOVICA - ACANthESCENT HERB - 2 - 2 1/2 m.  
 AURANTIAn 8-10 LEAVES - NOT STOLONIFEROUS -  
 BRACTS & FLs. WHITE -

(5)

3624 - CUPHEA UTRICULOSA KOEHNIG - HERB - 30 cm  
 COMMON ON ROCKS IN STREAMS. FLs. purple -

(6)

3625 - CASTILLA sp. TREES - 20 m. PROBABLY  
 PLANTED -

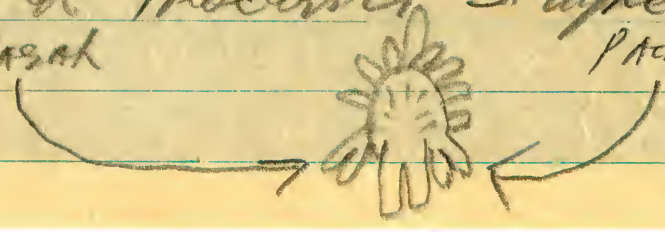
(2)

3626 - PHELLANTHUS - SPREADING TREES - 8 m.  
 COMMON ALONG STREAMS -

(12)

3627 - CYCNOCHES - STAMINATE CLAN - S. p.  
 & COLUMN GREEN - SPOTTED RED-BROWN -  
 LABELLUM WHITE - WITH 13 TOOTH-LIKE  
 PROCESSES ON THE MARGIN - (SEE PICKLE)  
 FINER PROCESSES SIMPLE - EXCEPT FOR  
 THE BASAL PAIR, WHICH ARE BRANCHED.

(1)



3628 - *Cycnoches* - STAMINATE CLAIR - S. & P. NEARLY  
WHITE, WITH TINY SCATTERED ROSE-RED DOTS -  
LABELLUM WHITE - WITH 13 FINER PROCESSES  
NEARLY ALL OF WHICH ARE FORKED -  
(SEE DRAWING & PICKLE)  
PROBABLY BOTH VARIATIONS OF *CYCNOCHES*  
*DIANA* -

3629 - *Heliconia velleriana* Poeppig - STOUT HERBS  
3-4 M. BRACTS SCARLET - VILLOUS, WEATHERED  
SMOOTHER WITH AGE - FLs. YELLOW - TIPS  
EXsertED. FRUITS BLUE - INFLORESCENCES  
pendulous - BASE OF LEAVES BROAD - ONE  
LOBE ABOVE THE OTHER - VILLOUS BRACTS  
PRESENT. (1)

3630 - *Saurauia*? <sup>ZATERIANA STANDL.</sup> - TREE - 15 M. FLs. WHITE, WITH  
YELLOW STAMENS - FRAGRANT - (17)

VICINITY OF TRINDI - CANAL ZONE - 10 M.  
8/14/46

3631 - *Heliconia* - VERY STOUT - 3 1/2 M. LEAVES STAVEON  
ON UNDER SURFACES - BASES ROUNDED - ONE  
LOBE ABOVE THE OTHER - INFLORESCENCES  
pendulous - BRACTS RED - RADIUS RED - FLOWERS  
YELLOW - TIPS EXsertED - BRACTES  
PRESENT - FRUITS LAVENDER - (SEE PICKLE) (1)

VICINITY OF CAMP PINA - 2 M. - 8/14/46

3632 - *Enallagma cucurbitina* (L.) Bailh. Rocky  
COASTAL HIGHLANDS - TREE - 10 M. FRUITS  
LIKE MINIATURE CALABASHES - Panama  
Total 1169 (2)

VICINITY OF MADON DAM - 25 m. 8/8/46

3633 - Heliconia - 2 m. BRACTS GREENISH YELLOW -  
Fls. prominently ~~axillary~~ - pubescent - yellow  
with DARK GREEN TIPS - SAME AS - #3610 (3)

VICINITY OF CAMP PUNA - 8/14/46 -

3634 - AEROID - TERRESTRIAL, ON STEEP HIGHLANDS - ANTHURIUM - (1)

EL VALLE DE ANTON - 8/21/46 - 1000 m.

3635 - TILLANDSIA GUANACASTENSIS STANDL. Epiphytic -  
BRACTS TAN - Fls. yellow - (5)

3636 - Tuzmania coriostachya (KUNZE) TREV. - Epiphytic  
LEAF BRACTS RED - Fls. JUKE WHITE - (3)

3637 - CAVENDISHIA CAPITULATA DENN. SM. - MUCH BRANCHED  
SHRUB - 1 1/2 m. Epiphytic - BRACTS PINK - Fls.  
PALE LAVENDER - (7)

3638 - TREE - 20 m. - <sup>SAPINDACEAE?</sup> FRUITS DARK RED - OPENING  
IN 3 VALVES - DISCLOSES THE SEEDS WHICH  
ARE COVERED WITH AN ORANGE YELLOW HAIR - (6)

3639 - CYCNOCHES PINNAE REHB. F. B. P. & COLONN  
PALE GREEN SPOTTED RED-BROWN - LABELLUM WHITE  
WITH 11 UNBRANCHED MARGINAL CLAWS. (1)

3640 - MUCUNA - VINE - FLOWERS CREAMY WHITE IN  
MARGRAVIA - LIKE CLUSTERS ON LEAF PENDANT  
CORDS - COMMON ALONG TRAILS - (7)

3641 - UCHARIA BOULETII <sup>WOODS & ALLAN</sup> - Fls. white (1)

3642 - <sup>locus of</sup> ~~ACTRAS CATICA PITTA~~ ? ? TREE - 25 m.  
FRUITS PALE YELLOW - (SEE PÉREZ)

3643 - COMPOSITE - FLESHY BRANCHES EPiphytic  
1 1/2 m. SHRUB - IN TOPS OF TALL TREES - LEAVES  
CORIACIOUS - FLs. purple - showy - (12) (1)

3644 - HELICONIA - 2 m. INF. ERECT - BRACCS ORANGE,  
WITH REDDISH BLUE AT BASE AND NARROW  
DARK GREEN MARGIN - FLOWERS HIDDEN - DARK  
GREEN. BRACTEALS PRESENT - (SEE PICKLE) (1) (1)

3645 - TREE - 30 m. FLs. pale yellow - (14) (1)

VICINITY OF LA CHORRERA - 8/27/46 -

3646 - BIGNONIAE - VINE - FLs. white, striped lavender  
COMMON ALONG HIGHWAY IN SECOND GROWTH - (7)

VICINITY OF OCU - 8/28/46

3647 - CHRYSOPHYLLUM CAINITO L. TREES 20 m.  
COMMON IN PARTS ALONG STREAMS. (6)

3648 - DENDROPHAX? TREE - 10 m. FLs. greenish white  
COMMON - (9)

VICINITY OF SAN FELIX - CHIRIQUI PROVINCE  
100 m. 8/29/46

3649 - CROTON <sup>STYRACINACEAE</sup> ~~PARAMENSIS (KOTZSCH) MULL. ARG.~~  
TREE - 12 m. SPREADING - FLs. white  
COMMON - (6)

3650 - TREE - 6 m. FLs. white - FRUITS WITH  
COVERING OF GREENISH YELLOW POWDER - (12)

3651 - TILLANDSIA FLEXUOSA Sw. Flowers red - (4)

- 3652 - TUSSACIA WOODSONIANA - Calyx deep orange - Red  
 Corolla yellow - striped orange - Common on  
 wet roadside banks. (10) (1)
- 3653 - MELASTOMACEAE - SHRUB - 1 1/2 m. Fls. Pink - (10) (1)
- 3654 - SHRUB - 2 m. Fruits Pink -
- 3655 - COCCOLOBA - SPREADING TREE - 6 m. Along River  
 Banks - (9) (9)
- 3656 - STERCORDIA APETALA (Jacq.) Karst. - TREE - 25 m.  
 Fls. TAN - MARKED RED-BROWN - Along River (2) (1)
- 3657 - BENIGNA AMERICANA L. TREE - 5 m. Fls.  
 Pale yellow - Common in pastures -  
 BENIGNA CARUTO H.B.K. ?? (8) (8)
- 3658 - CATASETUM <sup>OCEANICUM</sup> ~~MACROCARPUM~~ - ON FENCE POSTS - (1) (1)
- 0.150 m
- VICINITY OF REMEDIOS - 8/29/46 -
- 3659 - ANDIRA - TREE - 25 m. Flowers Bluish lavender - (40) (1)  
 DOES NOT FIT A. INEQUIS, JAMAICENSIS OR CHIRICAN  
 Looks like a species common on the Vaucluse.
- 3660 - VRIESIA SANGUINOLENTA COHN. & MARCKH. (3) (1)  
 Huge tank epiphytes in tops of large trees -
- 3661 - CITRAPHYLUM sp. - Small tree - 3 m. Fruits  
 orange - Infrequent in second growth - (7) (7)
- 3662 - TREE - TILIACEAE - 25 m. Fls. yellow - (20) (2)

3663 - *Erythrina rubrinervia* HBK. Fence Post  
Common - (3)

3664 - *Warsceviczia coccinea* (Vahl) Klotzsch  
SHRUB OR SMALL TREE - 3-4 m. BRACTS  
SCARLET. Fls. yellow - Common (5)

3665 - <sup>TRIMETTA -</sup> TREE - 8 m. Fls. white, with yellow  
stamens - ON EDGE OF MANGROVE SWAMP. (12)

3666 - ~~Pithecellobium~~ - Small TREE - 8 m. Fls.  
Rose Red - *Calliandra tonduzii* (B.R.) Standl. (9)

3667 - *Tillandsia usneoides* L. - ON tall trees in  
MANGROVE SWAMPS EAST OF Remedios. (5)

3668 - *Heliconia* - BRACTS GREENISH yellow - Fls. yellow  
prominently exserted - with dark green tips.  
FRUITS Blue - Same as # 3633 & 3610 (5)

3669 - *Bellucia grossularioides* (L.) Triana ? -  
TREE - 6 m. Fls. pale pink. (8)

VICINITY OF Camp Pina, Colon Province - 25 m.  
9/16/46

3670 - Small TREE - 10 m. very common in cut over land.  
FRUITS Red - Flowers greenish yellow - (10)

3671 - *Mikania* ? - LARGE vine, very common in  
SHRUBS & TREES - Fls. deepest white - (10)

3672 - SHRUB - 2 m. *Mitostoma* - RACHIS &  
CALYX DARK RED - Fls. white - Common. (10)

3673 - *Verbena* ? - WEEDY HERB - Fls. blue - (6)



3674 - TREE - 5 m. - Fls. white - Fruits Red -  
Common in second growth scrub - (2)

3675 - TREE - 10 m. Fls. white, with yellow stamens  
SAME AS # 3665 - ~~Thamnia~~ sp. (6)

3676 - TREE - 20 m. ANNONACEAE ? - Fls. cream  
yellow - (12) (12)

3677 - SOLANUM - SHRUB OR SMALL TREE - 3 m.  
Fls. white - Common - (12) (12)

3678 - COPANIA SERMANNI TRIN & PLANCH. ? Small  
TREE - 10 m. FRUITS RED - ARIL OF BIRD  
ORANGE - (10)

3679 - JACARATIA COSTARICENSIS FRANK. JOHNSTON -  
TREE - 20 m. FRUITS ORANGE - (7) (7)

EL Valle - 1000 m. NORTH - 9/18/46

3680 - PASSIFLORA - Flowers white - (1)

3681 - ONCIDIUM CABARRAE SCHLTR. G. & P.  
Rich chocolate brown, with  
labellum spreading - base chocolate brown  
with frontal lobe rich yellow - callus  
with toothed processes. very handsome -  
lateral lobes of lip yellow - (1)

3682 - Hillia TETRANTRA SW. - Epiphytic SHRUB -  
1 m. Fls. white - (3)

3683 - Small TREE - 3 m. Fls. yellow (4)

3684 - ODONTONEMA STRIATUM (NEES) KUNTZE  
Herb - 1 1/2 m. Fls. Red - (1)

- 3685 - *RALPHEA SPICATA* OERST. ? - STOUT HERB OR  
SHRUB - 1 m. Fls. Red - (6) (6)
- 3686 - *WULFFIA BACCATA* (L.F.) KUNTZE ? - SCANDENT  
SHRUB - 3-4 m. Fls. yellow - Composite (7) (7)
- 3687 - *ACALYPHA MACROSTACHYA* Jacq. SHRUB  
1 1/2 m. Fls. Rose Pink - (1)
- 3688 - *CENTROPORON RADICANS* (OITZE.) MIC VAUGH ? (6) (6)
- 3689 - *TILLANDSIA* - epiphytic - (1) (1)
- 3690 - *TILLANDSIA ANCEPS* Lodd. (2) (2)
- 3691 - *BURMANIA DONNELLSMITHII* Mez ex Donn. Sm. (1) (1)  
SCAPE BRACTS LACINATE RED - Fls. yellow -
- 3692 - *STEMMADENIA HERRI* (DONN. SM.) Woods. TREE  
4 m. BULL HORN FRUITS - yellow - (3)
- 3693 - *ACETONIA ALLENII* L.B. SMITH. Epiphytic  
SCAPE BRACTS ROSE PINK - Fls. LAVENDER (1)
- 3694 - *APHELANDRA AURANTIACA* (SCHIEDW.) Lindl.  
HERB - 50 cm. Fls. ORANGE - SCARLET - (9)
- 3695 - *JACOBINIA AUREA* Hemsl. ? - SHRUB OR  
STOUT HERB - 1 1/2 m. Fls. BRIGHT  
yellow - (2)
- 3696 - *CENTROPORON NOTANS* Phil. & OERST.  
HERB - 1 1/2 m. Fls. Pink - (1)
- 3697 - *Drymonia* - BRANCHING epiphytic SHRUB  
OR WOODY HERB - 2 m. Fls. yellow  
with Red - BROWN MARKINGS - (4)  
(SEE PICKLE -)

3698 - SCHEFFLERA ROBUSTA A.C. SMITH - STOUT -  
ERECT EPHYLLITE SHAUB - 7m. LEAVES  
COMPOUND - FRUIT PINK - ① ①

3699 - XIPHIODIUM CAERULEUM. AUBL. ① ①

El Valle - Floor - 600m. 9/19/46

3700 - MIMOSACEAE - TREE - 20m. FL. WHITE -  
FRAGRANT - COMMON - ⑦

3701 - LONOCLOBUS ALLENII WOODSON - VINE - IN  
TRAILSIDE THICKETS - FL. DARK GREEN - ②

3702 - STROTHERANTHUS POLYRHIZOS MART. ??  
PARASITIC SHAUB - VERY COMMON - FL.  
RED-TIPPED ORANGE - ⑩ ⑩

3703 - CUPANIA SP. - TREE - 20m. - ⑩ ⑩

3704 - COMMELINACEAE - HERB - 50cm. FORMING  
COLONIES ALONG STREAM BANKS - FL. WHITE ⑧ ⑧

El Valle - Floor - 600m. 9/27/46

3705 - CISSAMPelos TROPAEOLIFOLIA DC. VINE,  
FL. GREEN - ④

El Valle - NORTH - 1000m. 9/27/46

3706 - SAURAVIA ZETEKIANA STANDL. (S. PAUCISERRATA HENRICH)  
TREE - 30m. ②

RE-SEND 3413 & 3438

El Valle - 1000 m. 9/27/46 -

3707 - MARANTACEAE - 1 1/2 m. Fls. + BRACTS  
White - MYROSMA? - (4)

ALSO SEEN  
VERY COMMON  
PIÑA

3708 - SYMPLEONIA STOBULIFERA L. F. TREE - 30 m.  
STOUT ROOTS <sup>OFTEN</sup> PROTRUDING FROM LOWER 3 FT. OF  
TRUNK - Fls. BLOOD RED - LATEX YELLOW -  
KNOWN LOCALLY AS "CURILLO" ALSO  
ON CURRO CAUCANA + EL JEFÉ - RATHER  
COMMON - SEE 3413 - + 3438 (11) (1)

3709 - LAURACEAE - TREE - 12 m. (7) (1)

3710 - SMALL TREE - 5 m. Fls. WHITE - (9) (9)

3711 - TREE - 20 m. FRUITS RED - RUBIACEAE (7) (7)

3712 - HYDRANGEA OERSTEDII BRIG. ? Climbing vine,  
resembling in the juvenile stage FICUS REPENS,  
developing STRONG LATERAL BRANCHES ON REACHING  
THE TOPS OF THE LARGEST TREES - STERILE Fls.  
PINK OR WHITE - (13) (1)

3713 - JACOBINIA AUREA Haussk. SHAUB - 2 1/2 m.  
Fls. BRIGHT yellow - (4) (4)

3714 - NEUROLAENA LOBATA (L.) R. BR. - ERECT - STOUT  
HERB - 3 m. Fls. yellow - common on  
CUT OVER LAND ALONG TRAILS - (2) (2)

3715 - MAXILLARIA - (1)

3716 - MAXILLARIA VARIABILIS BATEM. Fls. TAN - (3)

3717 - BRASSIA ALLENII L. Wms. (1)

- 3718 - *COLUMNEA ARBUTA* - MORTON - FLS. SCARLET<sup>(2)</sup>  
Golden yellow lines AT THE COROLLA DIVISIONS
- 3719 - TREE - 30 m. EUPHORBIAEAE? <sup>(7)</sup>  
FASCICULATA VAR.?
- 3720 - TILLANDSIA - SCAPE BRACTS RED - FLS. DEEP  
INDIGO BLUE - <sup>(4)</sup>
- 3721 - LORANTHACEAE - PARASITIC SHRUB - IN TOPS OF  
TREES - 30 m. BRANCHES LONG - TO 2 m.  
FRUITS BLUE - <sup>(5)</sup>
- 3722 - TREE - 25 m. FRUITS BLACK-purple <sup>(7)</sup>
- 3723 - *ISUZMANIA DISSITIFLORA* (ANDRE) L. B. SMITH -  
SCAPE BRACTS SPRING PINK - FLS. YELLOW  
TIPPED PALE GREEN - <sup>(4)</sup>
- 3724 - *HAMELIA PANAMENSIS* STANDL. SHRUB OR STOUT  
HERB - 2 m. FLS. GOLDEN YELLOW - IN SECOND  
GROWTH IN CLEARINGS - <sup>(1)</sup>
- 3725 - TREE - 30 m. <sup>(16)</sup>
- 3726 - TREE - 30 m. FLS. WHITE <sup>(6)</sup>
- 3727 - TREE - 30 m. FLS. WHITE - <sup>(7)</sup>
- 3728 - TREE - 30 m. <sup>(12)</sup>
- 3729 - *MATISIA* (QUARARIBEA) <sup>AFF. *CORDATA*?</sup> TREE - 30 m. <sup>(12)</sup>
- 3730 - *PEPERONIA* - UNDERSIDES OF LEAVES PURPLE. <sup>(3)</sup>
- 3731 - *SWARTZIA DARIENENSIS* PITTIER - TREE - 10 m.  
FRUITS ORANGE - <sup>(10)</sup>
- 3732 - SMALL TREE - 3 m. FLS. TAN - <sup>(1)</sup>
- 3733 - TREE - 30 m. FLS. TAN - FRUITS RED - <sup>(9)</sup>

3734 - MICONIA - TREE - 12 m. SECOND GROWTH SCAR  
UNDERSIDES OF LEAVES TAN - (10) (C)

3735 - BURMANNIA NICARAGUENSIS MER & C. F. BAKER  
UNDERSIDES OF OLDER LEAVES PINK LAVENDER -  
BASAL 1/2 OF NEW LEAVES ROSE RED - SCAPES  
BRACTS SHINING PINK - FLs. BRIGHT YELLOW -  
FLOWERING SCAPES VARY SHORT - ABOUT  
1/3 THE LEAVES - (1) (C)

3736 - PENTAGONIA <sup>DENNETH SWITZII?</sup> ABSOLUTELY NOT P. MACROPHYLLA  
TREE - 20 m. FLs. WHITE, FRUITS <sup>RUSSIA</sup> RED  
SEE ALSO FORMER COLL. NO. 2801 (7) (C)

3737 - SOLANDRA BRACHYCALYX KUNTZE - WOODY BRANCHING  
LIANA, GROWING IN TOPS OF TREES - FLs.  
YELLOW - (3) (C)

3738 - DENDROPANAX - TREE - 30 m. FRUITS  
PURPLE - (9) (C)

3739 - XYLOBIUM FLONATUM HUMB. (1) (C)

3740 - NORANTHA SUBSESSILIS (BENTH.) D. SM. - HOPE  
BRANCHING EPiphytic SHRUB - FRUITS RED - (8) (C)

3741 - TREE - 30 m. MILKY LATEX - (10) (1) (C)

3742 - POUROUMA ASPERA TRECUK - TREE - 30 m.  
SAP BLACK - (7) (1) (C)

3743 - LAURACEAE - TREE - 30 m. QUARARIBEA sp. (9) (1) (C)

3744 - ORCHID - EPiphytic - FLs. BROWN - (1) (1) (C)

3745 - STIGMATOBLIX RACEMIFERA L. WMS. (1) (1) (C)  
FL. PINK YELLOW

3746 - *APRIBA ASPERA* AUBL. TREE -  
30 m. (2) (C)

3747 - TREE - 30 m. FRUITS PURPLE - (11) (C)

El Valle - CREST OF CARRO PAJITA - 1100 m.  
9/28/46 -

3748 - *STROBILIS ALLENII* STEYERMARK - EPiphyte  
HERB - Resembles *TRIS PERUVIANA*. (1) (C)

3749 - *VISMIA VIRIDIFLORA* DUCHASS. ?? - SMALL TREE,  
3 m. (7) (C)

3750 - *PEPEROMIA* - CREEPING VINE ON TREE TRUNKS  
SMALL THICK LEAVES - (1) (C)

3751 - Epiphytic Bromeliad - FOLIAGE SEDGE-LIKE -  
BRACTS RED-TIPPED WHITE - FLOWERS PURE  
WHITE - COMMON - (9) (C)

3752 - *MADONIA* - TREE - 12 m. UNDERSIDES OF  
LEAVES RICH RED-BROWN - NOT SEEN  
PREVIOUSLY. (20) (20)

3753 - TERRESTRIAL Bromeliad - FORMING THICKETS -  
FOLIAGE SEDGE-LIKE - BRACTS RED-TIPPED  
PATE YELLOW - FLs. YELLOW - VERY  
COMMON - (4) (C)

3754 - *PITCAIRNIA* - EPiphytic - BRACTS PINK - (1) (C)

3755 - *PITCAIRNIA* - TERRESTRIAL - 3 m. TALL -  
SCAPE VERY SLender - BEARING LONG  
SLender ROSE RED - FLs. ON THE  
BRANCHES. (1) (C)

Palmoretia SEE ALSO # 3789

3756 - ORCHID - TERRESTRIAL - FOLIAGE DARK GREEN - THIN, STRIPED SIKUARY WOOD - FLs. LIKE MINIATURE SOBRAKIA - pale yellow (1)

3757 - CHUSIA - STOUT EPIPHYTIC BRANCHING SHRUB - 3 m. FLs. white - (5)

3758 - RENEALMIA - 1 1/2 m. FRUITS RED - (1)

3759 - CALATRA - BRACTS PAPER WHITE - FRUITS BLUE - FLs. pale yellow - (1)

3760 - ERICACEAE - EPIPHYTIC SHRUB - 75 cm. FLOWERS PENDENT ON A LONG THREAD - LIKE STEM. (1)

3761 - MELASTOMACEAE - STOUT <sup>Sprengelia</sup> TREE - 10 m. TRUNK 50 cm. DIAM. FLs. pale pink. (10)

3762 - DENDROPANAX - TREE - 12 m. FLs. GREEN - (4)

NUEVA GORDONA - O-M - 10/5/46

3763 - JACQUINIA PANAMENSIS LINDL. - SHRUB - 2-3 m. FLs. DEEP ORANGE - FRAGRANT - VERY COMMON (1)

3764 - SOLANUM SCAFORTHIANUM ANDR. - VINE - FLs. BLUE - FRUITS RED - (1)

3765 - ANEMOPAETOMA ORBICULATUM (JACQ.) DC. - SHRUBBY VINE - FLs. YELLOW - COMMON - (9)

notes copied + sent  
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CERRO TRINIDAD - PANAMA PROVINCE - 800 - 1000 m.  
OCT. 20, 1946 (ALSO SEE NOTES)

- 3766 - PEPEROMIA - ON MOIST Boulders in deep  
SHADE - (6)
- 3767 - UTRICULARIA - ON WET ROCK FACES OF MAIN  
PEAK - FLOWERS pale blue with yellow  
BLOTCH AT BASE OF LABELLUM - TRAPS  
VERY LARGE IN RELATION TO SIZE OF  
PLANT - LIKE A MINIATURE U. ENRESI - (1)
- 3768 - ERYTHRODUS sp. TERRESTRIAL, FORMING small  
colonies in HEAVY FOREST - BRACCS white,  
Fls. creamy white - (4)
- 3769 - CENTROPON GRANULOSUS Presl - MUCH BRANCHED  
AROMATIC SHRUB - OR WOODY HERB - 3 m. Fls.  
PINK - (6)
- 3770 - ORCHID - Fls. TAN - EPIDENDRUM? - (3)
- 3771 - TREE - 5 m. FRUITS yellow - (6)
- 3772 - EPiphyllum - GIANT LIANA TO SEVERAL HUNDRED  
FEET IN LENGTH - IN TREES OR ON ROCKS - FLOWERS  
NOCTURNAL - VERY LARGE - OUTER petals pinkish  
TAN - INNER petals white - (1)
- 3773 - TREE - 6 m. FRUITS ROSE PINK - RUBINUM (6)
- 3774 - CYPHAELIS - WOODY HERB - 75 cm. BRACCS purple -  
FRUITS BRILLIANT BLUE - (1)
- 3775 - <sup>BIOPHYTUM PENDROIDES (HBK) DC.</sup> WOODY HERB - Fls. pale pink - ON  
ROCK FACES OF MAIN PEAK - (4)

RENTON NORTH OF EL VALLE - 1000 M. 10/27/46  
(Fl. in coll. of RAMON FAIRCHILD)

3776 - ONCIDIUM CABARRAE SCHOT. (1)

PSEUDO-BOLES STENON - SOMETIMES SPOTTED BLACK -  
BECOMING LONGITUDINALLY RIDGED WITH AGE - SEPAL  
TAN - PETALS LIGHT BROWN - FRONTAL AND LATERAL  
LOBES OF LIP YELLOW - BASAL 1/2 BELOW <sup>callus</sup> ~~callus~~  
BROWN - CALLOSUS CRISTED - WHITE, SPOTTED  
LIGHT BROWN - A SMALL FLD. FORM.

CARRO PASITA - EL VALLE - 1100 M. 10/27/46

3777 - EUZMANIA MUSICA (LINDL.) NEES -  
PLANTS WITH BROAD ALTERNATING BANDS  
OF GREEN & PURPLE - SCAPE BRACTS  
ORANGE - FL. PURE WHITE. (1)

3778 - CENTROSOLENIA - NOT C. LINEATA -  
LARGE TERRESTRIAL PLANTS - FLOWERS DEEP  
RED-BROWN - (SEE PICKLE)

3779 - MAXILLARIA FULGENS (RHB.F.) L. WMS.  
S. & P. BLOOD RED - LIP BRIGHT YELLOW (2)

3780 - EPIDENDRUM - FLOWERS PALE GREENISH YELLOW -  
STENON PSEUDOBOLBS PRESENT ALTHOUGH  
THEY DISAPPEAR IN DRYING - KEYS OUT TO  
E. PYBMAEUM IN ANES EPIDENDRUM, WHICH  
IT IS NOT - PROBABLY NEW - CHECK -  
(SEE PICKLE) - (4)

3781 - ERECT - VASE-LIKE. GREY TANK BROWN LIND -  
COMMON TO EDGES OF BRASSY RIDGE - TOWARD  
VAL TIRE & ROCK FACES - CARRO TRINIDAD (1)

3782 - ERICACEAE - SPHYROSPERMUM? - CREEPING  
WOODY PLANTS - EPITHYTIC - FLOWERS PURPLE -  
FRUITS PURE WHITE - (SEE PICKLE) (3)

3783 - ORCHID - TERRESTRIAL - AGREES FAIRLY WELL WITH  
THE SPECIMEN OF ERYTHRODES SECUNDA AMES IN  
MY HERBARIUM - (1)

3784 - VOYRIA ATHANII STEYERMARK - SAPROPHYTIC  
IN DENSE SHADE - FL. ROSE PINK - (1)

3785 - KEYS OUT TO EPIDENDRUM CENTROPETALUM ROBB. F.  
IDENTICAL EXCEPTING FOR COLOR WITH PLANTS IDENTIFIED  
BY WILLIAMS AS E. GONNIMANNIANUM. SEPAL &  
PETAL PINK GREEN - LIP PURE WHITE - ANOTHER  
IDENTICAL SPECIMEN SEEN IN WALTER COPE'S  
COLLECTION FROM CARRO CAMPANA - (1)

COCCOCYPSELUM HIRSUM BARTH.  
3786 - RUBIACEAE - CREEPING HERB - IN HIGHLAND CHERRINOS  
FRUITS BRIGHT BLUE - CONSPICUOUS - FL. BLUE (6)

3787 - PALMORCHIS? - (POSONIA (TRIPHORA)  
NOT IN FLORA - LEAVES  
STRIPED SILVERY GRAY - FL. CREAM YELLOW -  
LIP STRIPED LAVENDER - (SEE PICKLE) TERRESTRIAL (1)  
SEE ALSO NO. 3756 -

3788 - ACANTHACEAE - SHrub - 1 M. FL. PINK - (1)

HILLS SOUTH OF EL VALLE - 7000 M. 10/27/40

3789 - FICUS VELUTINA WILD. - SPREADING TREE -  
20 M. (I HAVE TWO FICUS SPECIMENS IN THE  
HERBARIUM WHICH HAVE BOTH BEEN DETERMINED AS  
F. VELUTINA - THEY ARE NEARLY IDENTICAL IN EVERY  
THING BUT FRUITS, WHICH ARE VERY DISTINCT -  
SEE NOS. 1837 AND 2525 - THE LAST OF WHICH  
AGREES ENTIRELY WITH THE PRESENT SPECIMENS - (5)

3790 - *Sobralia leucoxantha* - RCHB.F. - ON STEEP  
VOLCANIC ASH BANKS - S. & P. PURE WHITE  
LIP WHITE, WITH SULPHUR-YELLOW INNER  
THROAT - HORNS OF COLUMN SULPHUR YELLOW - (1)  
(SEE columns in Pickle)

VICINITY OF CARRO Jefe - PANAMA PROVINCE 7000.  
(Flowered in collection of MR. ROLAND JONES - BARBOA, C.R.  
10/28/46

3791 - *Eulophia*? - TERRESTRIAL - LONG-NARROW BLADE-LIKE  
FOLIAGE - SLANDER BASED PSEUDO-BULB - SLANDER RACEME  
OF 6-8 FLESHY FLOWERS. S. & P. PALE GREEN.  
LIP WHITE, WITH TRANSVERSE PURPLE STRIPES.  
SEE ALSO NO. 3562 - (Pickle only) (1) (2)  
LOOK UP *Eulophia filicaulis* -  
SEE ALSO *Otostylis* AMES ORCH. FASC. VII p. 58  
WEST INDIES - SEE *Cyrtopodium cristatum*!  
AMES. ORCH. FASC. VII p. 62

CERRO PASITA - EL VALLE - 1100 m. 10/29/46

3792 - *Maxillaria repens* L. Wms. (4)  
SEE plate AMES. ORCH. Soc. Bull. FEB. 1, 1942

3793 - *Pleurothallis* - (was *Devallia*??) EPITHEUTIC -  
FLOWERS LAVENDER (Pickle only) - - (1)

3794 - BENTIANACEAE - SAPROPHYTIC - FLS. DEEP YELLOW (1)  
(Pickle only)

3795 - *Leptanthes*? - SAPROPHYTIC - HERBS - (1)  
(Pickle only)

3796 - *Wasdevallia* - NOT IN FLORA - SINGLE  
DAMAGED FLOWER IN PICKLE - (1)

3797 - ORCHID - Fls. white - epiphytic -  
3797 (Pickle) only

(1)

ISOCHILUS - SEE FL. JAMA. ORCH. PL. 13

NUEVA GORONA - 0 mi. Panama Province 10/28/46  
3798

3798 - ACANTHOCERCUS PENTAGONUS (L.) BRITT. & ROSE - (1)  
Fls. white - NOCTURNAL - IN THICKETS ABOVE  
SEA BEACHES - Common -

CARRO PASITA - EL VALLE DE ANTON - 100 mi. 10/27/46

3799

3799 - Epiphytic Bromeliad - SCAPE BRACTS pale green  
throughout - LANK LEAVES GREEN - BRACTS  
Filled with transparent jelly - (1)

EL VALLE - TRAIL TO HEADWATERS OF RIO MATA ANONADO  
900 m. Nov. 10, 1946 - Collected by HARRY DUNN

3800

~~3800~~ - CYCNOCHUS - VERY STOUT PLANTS, PSEUDO -  
BULBS UP TO 7 CM. IN DIAMETER & 30 CM.  
IN HEIGHT - AVERAGE ABOUT 4 CM. DIA. & 18 CM.  
TALL - BEARING BROAD - Plicate LEAVES CLOTHING THE  
ENTIRE BULB - VERY STRONGLY VEINED DARK GREEN  
TOWARD THE BASAL clasping portion - UPPER  
3-4 LEAF AXIS BEARING CLUSTERED PISTILLATE  
INFLORESCENCES, SOMETIMES WITH THE POSITION  
OF A PAIR OF THE STAMINATE FORM. PISTILLATE  
FLOWERS FLASHY - SEPAL & PETAL YELLOWISH  
GREEN OBSCURELY VEINED DARKER GREEN - LIP IRONISH  
YELLOW - SHADING TO GREEN ON THE POINTED TIP.

NARROW SEMI-CIRCULAR CHEST DULL BROWN - (continued)  
~~(over)~~

3800 - (CONTINUED) FLOWERS ARE IN GREENISH  
YELLOW - WITH BROWN MARKINGS TO THE SEAMENTS -

3800

STAMINATE FLOWERS NORMALLY PROCEEDED IN A LONG  
PANICLED CHAIN FROM THE LOWER LEAF AXIS.

SEALS & PETALS PALE YELLOWISH GREEN - OBSCURELY  
VEINED DARKER GREEN - LIP WHITE WITH PROLONGED  
ACUMINATE TERMINATION & LATERAL MARKING TOOTH  
PROCESSES. BASE OF LIP UNDER COLUMN WITH  
A GREEN BLOTCH & TWO GREAT PALE GREEN  
PROCESSES - UPPER SEPAL - PETALS & COLUMN  
MINUTELY SPOTTED - RED-BROWN - (SEE PICKLE)

VICINITY OF DAVID - CHIRIQUI PROVINCE - 100 MI.

(PLANTS FLOWERED IN TAMBOA NOV. 12, 1946)

3801

3801 - *CATHEPA SKINNERI* - SEALS & PETALS LIKE (RIPR.) - ONLY  
PARTIALLY OPENING - LIP TENDRILY ROLLED ABOUT THE COLUMN -  
CONSIDERABLY REDUCED IN SIZE - APEX OF LIP WHEN OPENED  
FOR INSPECTION PINK PURPLE SHADING THROUGH PINK  
TO BASAL 1/2 UNDER COLUMN, WHICH IS MAFFENTA - (2)  
(SEE PICKLE)

EL VALLE - CARRO PATITA - 100 MI -

(FLOWERED IN TAMBOA - NOV. 18, 1946)

3802

3802 - *SPIRANTHES NAUARENSIS* (AMES) L. WMS. TERRESTRIAL -  
IN HEAVY SHADE - SCAPE BRACETS CORAL RED - UPPER  
SEPAL ZINC ORANGE - LOWER SEALS, PETALS & LIP  
ABOUT ORANGE BUFF. (SEE PICKLE) (1)

PACIFIC LOWLANDS - EXACT LOCALITY UNKNOWN

(PLANTS PURCHASED FROM COLLECTOR - FLOWERED TAMBOA NOV. 12, 1946)

3803

3803 - *CATHEPA SKINNERI* - S & P. NOT FULLY EXPANDED - LIP TENDRILY  
ROLLED OVER COLUMN - FRONTAL LOBE OF LIP PINK PURPLE -  
SHADING TO NEARLY PURE WHITE IN CENTRAL INNER THROAT -

3803 - (CONTINUED) BASAL 1/3 UNDER COLUMN VERY NEAR  
BORDEAUX -

(1)

3803

El Valle - NORTH - 1000 m. (Loma del Tigre) 11/16/46

<sup>3404</sup>  
3804 - BRASSIA ALLENII - LINN. S. & P. OLIVE OCHER - SHADING  
TO CINNABON BUFF AT THE BASE - PETALS WITH A SMALL  
BASAL TRIANGULAR BARIUM YELLOW SPOT. LIP BARIUM  
YELLOW WITH A NARROW BAND OF IRREGULAR MIKADO  
BROWN SPOTS BELOW CREST - CREST WHITE, WITH  
A DEEP LONGITUDINAL CLEFT WHICH IS COLORED STRONTIAN  
YELLOW. ANTHUR CAP WAX YELLOW - WITH A MIKADO  
BROWN BEAK - COLUMN WHITE, WITH TWO LATERAL BLOTCHES  
OF MIKADO BROWN - FRAGRANT - (SEE PICKLE) (1)

3805

3805 - SMALL TREE - 5 m. FRUIT RED -

(3)

3806

3806 - ARDISIA PITTIERI Mez - SMALL TREE - IN HEAVY FOREST  
3 m. FL. PINK - IN PENSIVE PANICLES - STAMENS YELLOW -  
FRUIT BRIGHT RED -

(3)

3807

3807 - TREE - TEN METERS - FRUIT YELLOW

(2)

3808

3808 - PLEUROTHALLIS - NEAR P. ROWLEEI, BUT DIFFERING VERY  
CONSIDERABLY IN THE FORM OF THE PETALS. FLOWERS NEARLY  
RASIN PURPLE - SEPAL'S HIRSUITE - PLANTS VARIABLE IN  
SIZE - & LEAF SHAPE - FLOWER CLOSTERS IN VARIOUS  
CARRIED ON UNDER-SIDE OF LEAF - (SEE PICKLE) (7)

(7)

3809

3809 - ONCIDIUM CRISTA-GALLI - RICH. F. - (PICKLE ONLY)

(1)

3810

3810 - PLEUROTHALLIS ROTUNDATA SCHWEINF. - UNDERSIDES OF LEAVES OFTEN  
PURPLE - SEPAL'S ROSE RED-TIPPED WAX YELLOW - PETALS PALE  
YELLOW - TIPPED PALE BROWN - HIRSUITE - LIP PALE YELLOW AT  
BASE - SHADING TO ROSE RED - APAX YELLOW - MARGINS OF S. & P.  
DENSELY MINUTE HIRSUITE - (SEE PICKLE) (1)

(1)

WENCKLEI SCHATZL

3811 - SCAPHYLOTTIS - S. & P. WHITE - LIP WHITE, WITH FAINT LATERAL  
PURPLE LINES - COLUMN PURPLE - POLLINIA 4 - (SEE PICKLE) ①

3812 - ISOCHILUS - SEPAL'S PURPLE - SHADING TO CREAM YELLOW  
AT THE TIPS - PETALS GREENISH YELLOW - TRANSLUCENT -  
LIP TRANSLUCENT - GREENISH YELLOW - POLLINIA 4 - ② ③  
(SEE PICKLE)

3813 - MAXILLARIA - VARIABILIS - BATEM. - S. & P. PALE GREENISH  
YELLOW - INNER LIP MAROON WITH GREENISH YELLOW MARGIN  
TO THE FRONTAL LOBE - (SEE PICKLE) ① ②

3814 - PLEUROTHALLIS - NEAR P. RUSCIFOLIA - R. BR. SEPAL'S WHITE -  
PETALS PALE YELLOW - LIP YELLOW - (SEE PICKLE) ① ②

3815 - PLEUROTHALLIS COBRAEFORMIS L. WULF. - UPPER SEPAL PALE  
TRANSLUCENT GREEN - HEAVILY SPOTTED MAROON - LOWER SEPAL  
RED - WITH BROAD <sup>LONGITUDINAL</sup> CENTRAL PALE GREEN BAND - 4 IRRREGULAR <sup>maroon</sup>  
BLOTCHES UNDER LIP - PETALS MAROON - THE MARGINS <sup>maroon</sup>  
LIP MAROON - COLUMN MAROON - (SEE PICKLE) ① ②

3816 - PLEUROTHALLIS - PTEROCAULIS L. WULF. Fls. purple - (SEE PICKLE) ① ②

3817 - MAXILLARIA ENDRESII VAR. ANGUSTISEGMENTA (A. G. S.) SCHWEIN  
OUTER SURFACES OF S. & P. WHITE - INNER SURFACES OF  
SEPAL'S ~~to~~ yellow shading to white at base -  
INNER petals white, INNER LIP BRIGHT YELLOW, WITH  
WHITE MARGIN TO THE FRONTAL LOBE. INNER 1/3 BELOW  
COLUMN WHITE, STRIPED <sup>RICH</sup> RED - BROWN - COLUMN RICH  
RED BROWN - APICAL 1/3 WHITE - ANTHER CAP TAN ⑤ ⑥  
(SEE PICKLE)



EL VALLE - UPPER RIO ANTON - 650 m. 11/16/46

3818 - TREE - 25 m. LUM'S SQUARE TREE - (4)  
← QUARARIBEA AFF. PLATYPHYLLA Pitt. + O. Sm.

3819 - INDA - SMALL TREE - 4 m. FLG. WHITE - (5) (5)  
FAIRLY COMMON IN ROADSIDE THICKETS -

REGION SOUTH OF EL VALLE - RIO MATA A HORRADO  
200 m. 11/16/46

3820 - BLETIA - <sup>TUBEROSA (L.) AMES</sup>  
(SEE PICKLE) (2)

VICINITY OF JUAN DIAZ - PANAMA PROVINCE - 50 m. 11/12/46  
(Flowers in Pedro Zúñiga in collection of Walter Cope)

3821 - MAXILLARIA - <sup>CAMARIDII</sup>  
S. & P. PURE WHITE - Lip RICH yellow -  
MARGINED WHITE, WITH TRANSVERSE BARS OF RED-BROWN -  
Red-Brown blotch at base of column - flowers (1)  
usually produced as a single pair - (SEE PICKLE) (1)

3822

3822 - MAXILLARIA - S. & P. Cream - Lip very pale  
yellow - 3 pairs of flowers produced simultaneously (1)  
(SEE PICKLE) (1)

RIO NAVARRO - FORESTS ABOVE OROSI - COSTA RICA  
5000 FT. - Flowered in the collection of MR. CH. LANKESTER  
LAS CONCANAS - CARTAGO - COSTA RICA - 11/26/46

- 3823 - *Pleurothallis grandis* Rolfe -  
3824 - *Pleurothallis coccolobiceps* ?? - RHB.F. ?? -  
3825 - *Dichaea ciliolare* Rolfe  
3826 - *Scaphosepalum anchoriferum* RHB.F.  
3827 - *Pleurothallis* sp. possibly new -  
3828 - *Stelis cascariensis* Wurd. near *S. leucopogon*  
3829 - *Pescatorea cerina* - very large flowered form -  
3830 - *Epidanthus* near *E. paranthicus*  
3831 - *Oncidium pauciflorum* Ames - Bulbs & leaves as *Oncid. ochmatochilum*.  
3832 - *Lochnera lunifera* ?? -  
3833 - *Pleurothallis* sp. fls. yellow  
3834 - *Pleurothallis pallidata* -  
3835 - *Sitomatostachy* *heymanniana*  
3836 - *Sistatolobosium raceminatum* (*Platythallis*?)  
3837 - *Sobralia* - dried flowers - color rose purple  
3838 - *Odontoglossum convularioides* - fls. white  
3839 - *Oncidium cheirophorum* -  
3840 - *Physosiphon* sp.  
3841 - *Pleurothallis standleyi*

VICINITY OF LAS CONCANAS - CARTAGO - COSTA RICA  
Flowered in the collection of MR. CH. LANKESTER  
11/26/46

- 3842 - *Lycaste leucantha* -  
3843 - *Epidendrum criniferum* RHB.F. (keys out to this sp.)  
3844 - *Oncidium stenotes* -  
3845 - *Lepanthes turbinata* (see illus. WARS. ORCH.)  
3846 - *Epidendrum brassavolae*  
3847 - *Lycaste brevifolia*  
3848 - *Epidendrum difforme* -

REGION ABOVE EMPALME - 6000 FT. COSTA RICA  
Flowered in the collection of C. H. LANKESTER  
LAS CONCAVAS - CARTAGO - 11/26/46

3849 - *Lepanthes* - growing on caks - may be new.

VICINITY OF ESTRELLA - 5000 FT. COSTA RICA  
Flowered in the collection of MR. C. H. LANKESTER  
LAS CONCAVAS - CARTAGO - COSTA RICA 11/26/46

3850 - *Trichocentrum PFAVI* -

3851 - *Maxillaria COCCINEUM* - Fls. ORANGE -

3852 - *KEFERSTEINIA ESTRELLENSIS* - THIS SHOULD BE PROVED -

VICINITY OF CARILLO - 1000 FT. COSTA RICA  
Flowered AT LAS CONCAVAS - COLLECTION OF MR. C. H.  
LANKESTER - 11/26/46

3853 - *Cryptophranthes* - Fls. CREAMY WHITE -

VICINITY OF OROSI - COSTA RICA - 4500 FT.

11/26/46

Flowered in the collection of MR. C. H. LANKESTER  
LAS CONCAVAS -

3854 - *Restyria LANKESTERI* - ANES -

PACIFIC COAST LOWLANDS - COSTA RICA

Flowered AT LAS CONCAVAS - MR. C. H. LANKESTER

11/26/46

3855 - *Laelia RUBESCENS* -

3856 - *Pleurothallis LONNISSINA* - Fls. yellow

OAK FOREST MOND PAN AMERICAN HIGHWAY  
TO EL GENERAL - 7000 FT. FLOWERS AT LAS  
CONCEVAS IN COLL. MR. C. H. LANKESTER 11/26/46

3857 - MAXILLARIA sp. Fls. ROSE PINK - Common

VICINITY OF CAENI - REVENTAZON VALLEY - <sup>Costa Rica</sup> COSTA RICA  
4000 FT. FLOWERS AT LAS CONCEVAS - COLL.  
MR. C. H. LANKESTER - 11/26/46

3858 - PLEUROTALLIS SCANDENS - Fls. PURPLE -

3859 - SIGMATOSTYLIS COSTARICENSIS -

OTOMODO - VICINITY OF TRES RIOS - 6000 FT. <sup>Costa Rica</sup> COSTA RICA  
FLOWERS AT LAS CONCEVAS - COLL. MR. C. H. LANKESTER  
11/26/46

3860 - MASDEVALLIA ECORNUTA

3861 - MILTONIA ENPRESSII

3862 - MASDEVALLIA sp. Fls. yellow

3863 - PLEUROTALLIS sp. Fls. purple -

3864 - MAXILLARIA sp.

3865 - SCAPHYLOTTIS sp.

CERRO UYUCA - DEPARTAMENTO DE MORAZAN - <sup>Honduras</sup> HONDURAS  
6000 FT. CLOUD FOREST - WITH PAUL C. STANLEY  
& LOUIS O'WILLIAMS - 12/5/46

3866 - EPIDENDRUM sp. Fls. GREEN - (SEE PICKLE) ①

3867 - EPIDENDRUM AFF. E. RAMESUM - Fls. <sup>greenish</sup> PINK GREENISH  
yellow - (SEE PICKLE) ①

3868 - APOPHYLLUM ALPINUM? Fls. ROSE PINK - Common  
(SEE PICKLE) ②

- 3869 - <sup>3869</sup> Pleurothallis - fls. pale yellow (see pickle)  
 3870 - <sup>3870</sup> Odonostemon pulchellum - ON OAKS - 5000 FT.  
 Fls. white - (see pickle)

PENA BLANCA - HEADWATERS OF RIO LINDO - DEPARTAMENTO DE YORO - HONDURAS - DEC. 10, 1946 - WITH MARK TRATTON -

- 3871 - <sup>3871</sup> Epidendrum? - <sup>Pyramicum Hook.</sup> S. & P. TAN - lip white, with painted lavender mid lobe - creeping habit - common - (see pickle)

- 3872 - <sup>3872</sup> Pleurothallis - fls. tan - common - (see pickle)

- 3873 - <sup>3873</sup> Masdevallia simulata - fls. translucent - heavily spotted red-brown - (see pickle) - common

- 3874 - <sup>3874</sup> Maxillaria <sup>Rehderi F.</sup> Friedrichsianii - S. & P. yellow - lip red-brown - common - (see pickle)

- 3875 - <sup>3875</sup> Pleurothallis - probably identical with no. 3872 - (see pickle) fls. tan - common -

- 3876 - <sup>3876</sup> Pleurothallis sp. - fls. yellow - (see pickle) rare -

- 3877 - <sup>3877</sup> Epidendrum <sup>Boottii (Lindl.) L. Wms (C. Beck)</sup> ~~puberulum~~ - fls. straw yellow - (see pickle) very common -

- 3878 - <sup>3878</sup> Epidendrum <sup>ANCEPS JACQ.</sup> - with NOT leaf out in "ANKS" Epidendrum - " S. & P. TAN - lip pinkish tan - under surfaces of foliage purple - common - (see pickle -)

- 3879 - <sup>3879</sup> Maxillaria - S. & P. cream white - lip bright orange - (see pickle)

3880 - TILLANDSIA - EPiphytic -

3881 - TILLANDSIA - EPiphytic -

CARRO UYUCA - DEPARTAMENTO DE MORAZAN - HONDURAS  
6000 FT. CLOUD FOREST - WITH PAUL C. STANLEY & LOUIS  
O. WILLIAMS - 12/5/46

3882 - NESNERIACEAE - SHAUB - 1 M. FL. SCARLET. (4)

3883 - MYRSINACEAE - SHAUB - 2 M. FL. PALE PINK. (2)

RIO YEGUARE - VICINITY OF CASITAS, ABOUT 800<sup>m</sup>  
DEPARTAMENTO DEL PARAIISO - HONDURAS - 12/4/46 -  
WITH PAUL C. STANLEY & LOUIS O. WILLIAMS -

3884 - COMPOSITAE - HERB - FL. WHITE - (1)

3885 - COMPOSITE - WOODY HERB - 2 M. - (1)

3886 - LANTIA RUBESCENS - (2)

3887 - QUERCUS - TREE - 20 M. (3)

3888 - METASTOMIACEAE - SHAUB - 1 1/2 M. (2)

3889 - SERTANIA TAILLONIAE STANLEY - WOODY  
VINE - (3)

3890 - LEROUXIA - HERB - FL. ORANGE - COMMON IN  
PASTURES - (1)

3891 - LEROUXIA - HERB - FL. YELLOW - COMMON (1)

3892 - EUPHORBIA - WEEDY HERB - (1)

3893 - LEROUXIA - HERB - FL. ORANGE - COMMON - (2)

3894 - MIMOSA - WOODY HERB - 2 M. FL. PINK -  
COMMON - (3)

3895 - TURNERA - HERB - FL. ORANGE - COMMON - (2)

3896 - ASTER SPINOSUS ? - WOODY HERB - ON ROCKS  
IN STREAM COURSES - FL. WHITE WITH YELLOW  
CENTERS - COMMON - (2)

CRISTUM MONTANUM - FEB. 1944

Cerro UYUCA - DEPARTAMENTO DE MORAZAN - HONDURAS  
5000 FT. PINE-OAK CLEARINGS - 12/5/46 - with  
DR. PAUL C. STANLEY & LOUIS O. WILLIAMS -

- 3897 - *DISTYLIUM HONDURENSE* STANLEY & WALKER.  
TREE - 15 m. DET. STANLEY - (2)
- 3898 - <sup>MALVACEAE</sup> WOODY HERB - 1 1/2 m. Fls. purple - (3)
- 3899 - MELASTOMACEAE - WOODY HERB - 1 1/2 m. Fls. pink (1)
- 3900 - *PINDICULA CRENILoba* - Fls. white - (1)
- 3901 - *CASTILLEJA* - HERB - 1 m. (1)
- 3902 - *LINUM* - Fls. yellow - (1)
- 3903 - *VALERIANA SORBI FOLIA* - (2)
- 3904 - COMPOSITE - WOODY HERB - 1 1/2 m. Fls. yellow. (2)
- 3905 - TREE - 20 m. 6000 FT. Cloud FOREST. (2)
- 3906 - COMPOSITE - WOODY HERB - 2 m. Fls. white - (1)
- 3907 - *SALVIA* - Fls. blue - common - (3)
- 3908 - *SALVIA* - Fls. rose purple - (3)
- 3909 - *SALVIA* - Fls. red - (1)
- 3910 - *CESTRUM AURANTICUM* - SHrub - 1 1/2 m.  
Fls. orange - FRUITs white - common (2)
- 3911 - *SALVIA* - Fls. pale lavender - (2)
- 3912 - *EUPATORIUM* - WOODY HERB - 2 m. Fls.  
pale pink - (4)

RIO TABASARA - VERAGUAS PROVINCE - PANAMA - 100 m.  
PLANTS FLOWERING IN TAMBOA 12/20/46

- 3913 - *CYCNOCHES VENTRICOSUM* - MALE FLOWER -  
(SEE PICKLE -) ON PLANT ABOUT 8" HIGH - SWAY  
TO FIREHOLD - Small size of flower believed  
to be correlated with size of plant - (1)
- 3914 - *CYCNOCHES VENTRICOSUM* - MALE FLOWERS -  
SOMEWHAT LARGER IN SIZE THAN 3913, BUT  
OTHERWISE IDENTICAL (SEE PICKLE) PLANT NO. 1 (1)



3915 - *CYCNOCHES VENTRICOSUM* - HERMAPHRODITIC FLOWERS  
(SEE PICKLE) PLANT. NO. 2 (1) (1)

EL VALLE DE ANTON - 600 M.

PLANT FLOWERS IN TAMBOA 12/20/46

3916 - *CATASETUM SCURRA* - (SEE PICKLE) (1)

3917 - *EPIDENDRUM CONGESTUM* ROLFE - (SEE PICKLE) (1)

VICINITY OF LA PINTADA - COCLE PROVINCE - 150 M.

PLANT FLOWERS IN TAMBOA 12/20/46

3918 - *ONCIDIUM AMPLIATUM* - (SEE PICKLE) (1)

3919 - *EPIDENDRUM STAMFORDIANUM* - (SEE PICKLE) (1)

EL VALLE DE ANTON - 600 M. COCLE PROVINCE  
FLOWERS AT TAMBOA 12/26/46

3920 - *ORNITHOCYCLUS* - S. P. P., WHITE (SEE PICKLE) (1)

3921 - *LEP. FROEN. COCHLEARIFORMIS* C. SCHWEINF.

REGION NORTH OF EL VALLE - LOMA DEL TIPORE  
1000 M. FLOWERS AT TAMBOA 12/26/46

3921 - *MAXILLARIA ALLENII* L. WUER. FL. PINK  
YELLOW - (SEE PICKLE) (2)

3922 - *EPIDENDRUM CRINITIFLUM* RCHB. F. (SEE PICKLE) (1)

3923 - *PLEUROTHALLIS* AFF. *P. POWELLII* - (SEE PICKLE) (1)

3924 - *EPIDENDRUM NOCTURNUM* - VERY STRIKING  
VARIATION FROM NORMAL - COULD BE DESCRIBED AS  
NEW SUB-SPECIES. FOLIAGE PURPLE ON UNDER  
SURFACES -

El Valle - Floor - 600 m.  
Flowered at TAMBOA - 12/26/46

3925 - EPIDENDRUM LOCKHARTIODES SCHLTR.  
Pls. GREEN - (see pickle) TORNING  
TAN WITH AGE - (5)

VICINITY OF TAMBOA, C. 2. 12/31/46

3926 - NOTYLIA PANTRACHNE Rehb. F. (see pickle) (1)  
Sepals pale green - petals near white, with  
two minute orange circular spots - lip  
pale white

Rio Lindo - Honduras - Flowered at TAMBOA 1/5/47

3927 - SCAPHYNOTIS - S. & P. greenish white - lip white -  
column tinged purple (see pickle) (1)

3928 - HEXADESIA (SCAPHYNOTIS?) S. & P. pale green - obscurely  
striped greenish tan - lip white, with a broad pale  
yellow median stripe - anther cap purple -  
(see pickle) (2)

VICINITY OF EL ZAMORANO - HONDURAS - Flowered at  
TAMBOA 1/5/47

3929 - CATHEYA KURANTICA - Sepals bright orange - petals  
bright orange with minute red dots - lip bright  
orange with red spots. (see pickle) (1)

VICINITY OF TAMBOA, C. Z. 12/20/46 - collected by  
Dorothy O. Allen -

3930 - PASSIFLORA SEEMANNI Wilsob. Fls. Blue - (3)

3931 - LEANER - WOODY LIGNA - Fls. PINK - (2)

TRAIL TO

Cerro PASITA - Hills NORTH of EL VALLE - ~~1200 m.~~ <sup>500</sup>  
1/2/47 - WITH BRATHAM FAIRECHILD

3932 - APTALANOTA - SHRUB - 1 1/2 m. Fls. PINK - (4)

CREST of Cerro PASITA - Hills NORTH of EL VALLE  
1200 m 1/2/47 - WITH BRATHAM FAIRECHILD -

3933 - SPIRANTHUS NAUFRANENSIS (Aubl.) L. Wals. (5) (1)  
(See pickle)

3934 - SELAGINELLA - EPiphytic - (1)

3935 - SCOPHYNOCTIS - Fls. pale greenish white,  
faintly striped lavender (see pickle) (4)

3936 - CEPHAELIS - SHRUB - 1 1/2 m. BRACTS pale pink -  
Fls. pale pinkish lavender - (3)

3937 - LYCOPODIUM - 2 1/2 m. tall - in thin forest (4) (4)

3938 - STEWOLEPIS ALLENII STEYERMARK - (see pickle) (1)

3939 - LOCKHARTIA - Fls. yellow - (see pickle) (1)

3940 - ~~SPIRANTHUS~~ SPIRANTHUS FUNCKIANA? <sup>terrestrial?</sup>  
(see pickle) (1)

3941 - MAXILLARIA ALLENII L. Wals. S. & P. pale yellow -  
lip reddish tan - (1)

- 3942 - MAXILLARIA - AFF. *CHAMPIDIUM RANOIDIFLORUM* -  
 S + P. WINE RED - TIPPED 4 MARCHES YELLOW -  
 LIP RUST ORANGE - (See pickle) (3) (3)
- 3943 - EPIDENDRUM - AFF. *E. JAMAENSE* - FLs. GREEN - (2)  
 (See pickle)
- 3944 - SCAPHYLOTTIS - GIANT SPECIES - TO 3 FT. TALL -  
 S + P. PINK GREENISH LAVENDER - LIP WHITE, WITH  
 CENTRAL YELLOW MEDIUM BAND - (See pickle) (3) (1)
- 3945 - MAXILLARIA - S + P. PINKISH TAN - LIP RED BROWN -  
 (See pickle) (4)
- 3946 - MAXILLARIA REPENS L. WIND. (Pickle only) (1)
- 3947 - PRECOTTIA ORIENTALIS ?? - (Pickle only) EPiphytic. (1)
- 3948 - PLEUROTHALLIS - PROBABLY *P. OXYPTROSTRE* SULLIV. (1)  
 (Pickle only) FLs. WHITE.
- 3949 - POLYSTACHYA sp. - FLs. GREENISH YELLOW -  
 (Pickle only) (1)
- 3950 - EPiphytic ORCHID - FLs. <sup>PINK</sup> GREEN.
- 3951 - LYGANTHES ? - FLs. TAN - (Pickle only) (1)
- 3952 - PLEUROTHALLIS (*MADONATHIA*) ? - FLs. PURPLE - (Pickle only) (1)  
 SAME AS NO. 3793
- FLOOR OF EL VALLE - 600 m. COLLECTED BY DOROTHY  
 ALLEN - 1/2/46
- 3953 - TRICHOCLERUM - sp. (Pickle only) (1)

3954 - *Pleurothallis muricata* - SCHOTT, Fls. yellow -  
common - (Picke only) ① ②

Cerro Patita - Hills north of El Valle - 1200 m.  
1/2/47 - with William Fairchild -

3955 - Melastomae - Stout trees - common to El Fin  
Forest - 3-4 m. Fls. white - ⑥

3956 - Melastomae - Stout spreading tree - 3-6 m.  
Common to El Fin Forest - Fls. pink -  
Stamens yellow - ⑤

3957 - Bromeliad - Undersurface of leaves lavender -  
Spike bracts scarlet - Fls. pale yellow - ①

3958 - Bromeliad - Terrestrial - Flower spikes - 2 m tall.  
Flowers red - common - ①

El Valle Chiquito - 600 m. Flowers in 1947  
Action in the collection of Mr. Harry Dunn 1/7/47

3959 - *Bomarea quinque nervis* - Ruiz & Pavon -  
Flowers yellow - Spotted - Red - Brown -  
(see picke) ①

Cerro Ampara - 800 m. 1/7/47 - with William  
Fairchild -

3960 - *Clusia* - tree - 10 m. Fls. pinkish white,  
FRAGRANT - ④ ⑤

3961 - *Pleurothallis* - Fls. red - brown - (see picke) ①

- 3962 - ERICACEAE - GIANT BRANCHING EPiphytic SHRUB -  
3-4 m. Fls. pink - (6)
- 3963 - PLEUROTHALLIS - Fls. purple - (see picture) (1)
- 3964 - CALATHEA - BRADS purple - Fls. greenish  
yellow. 1 1/2 m. (1)
- 3965 - SHRUB - 2 m. Fls. dark purple - (2)
- 3966 - LEOCOTYLOS - ? Fls. brown - (see picture) (1)
- 3967 - LYCOPODIUM - EPiphytic - (1)
- 3968 - MAXILLARIA Allenii L. Wms. S. & P. Straw yellow -  
lip red - orange - (5)
- 3969 - PLEUROTHALLIS aff. P. COCOPHLOEUS - Fls. translucent  
maroon red - brown - (see picture) (1)
- 3970 - POOECARPUS Allenii - Tree - 25 m. Very common  
Name reported as "Alfajillo" (6)
- 3971 - EPIDENDRUM RIBIDIUM Jacq. Fls. greenish  
yellow - (see picture) (1)
- 3972 - GIANT THORNY LIGN - (CAETACEAE?) FRUITS ORANGE (1)
- 3973 - MAXILLARIA - Fls. TAN - (see picture) (2)
- 3974 - ASCLEPIAS - VINE - Fls. pale yellow - (2)
- 3975 - PLEUROTHALLIS - S. & P. white - lip white,  
Frontal lobe purple with central white  
spot. Anther cap purple - (see picture) (1)

- 3976 - *Cyclanthus* - Tupper Creek (1)  
 3977 - *Prescottia* *Staelhovei* (Sw.) Hitchc. Tupper Creek (1)  
 3978 - ~~*Prescottia*~~ - *Epiphytic* - in wooded forest - (1)  
*Spiranthes?*

Rio TABAZARA - VERAGUAS PROVINCE - 100 m.  
 Flowered in STAMBOA 1/11/47

- 3979 - *Cycnocheilus* *ventricosus* - male fls.  
 Producers from plant NO. 2 - (see pickle) (1)

Cerro PATITA - Hills NORTH of La VILLA - 1200 m.  
 Flowered at STAMBOA 1/12/47

- 3980 - *Scaphyloctis* *bilineata* (Raff. F.) Seidl.  
 (see pickle) G.P. Pale lavender with  
 column & anther of lavender - (1)

Rio Lindo - HONDURAS -  
 Flowered in STAMBOA 1/12/47

- 3981 - *Dichaea* - fls. Translucent - spots pale (1)  
 PINKISH LAVENDER - ANTHOR of purple - (see pickle)

Cerro Chupank - 800 m. Flowered in STAMBOA  
 1/12/47

- 3982 - *Scaphyloctis* - fls. Translucent - striped  
 lavender - see also NO. 3935 - (see pickle) (1)

- 3983 - *Epiphanium* *meigsii* - fls. tan (see pickle) (1)  
 Foliage green

- 3984 - *Epiphanium* *diffusum* - flowers white  
 with pale green tips to sepals & petals.  
 (see pickle) (1)

El Valle - Floor - 600 m. Flowered at DUMBOA  
1/14/47

3985 - *Melipona* *INVENI* - S. & P. yellowish green -  
minutely spotted red-brown - lip TAN -  
Beehive very strongly packed with air -  
minutely spotted red-brown (see pickle) (1)

CARRO PLANTACION - vicinity of Summit - C. 2.  
Flowered in the collection of Mr. & Mrs. James  
Barrat, ~~San~~ Obispo - C. 2. 1/14/47

3986 - *Monoprymna* *lypsocombata* - S. & P. pure  
white - lip white, with narrow forked lines  
in the inner throat - Ovary white - 2 styles  
narrow - Corolla & Anther also pure white -  
Strong cinnamon fragrance in the ~~morning~~  
MORNING. (see pickle) (1)

El Valle - Floor - 600 m. Flowered at DUMBOA  
1/14/47 - collected by Dorothy O. Allen

3987 - *Oncidium* *chiropterum* - (see pickle) (1)

CARRO CAJON - Rock Face - 800 m. Flowered at  
DUMBOA - C. 2. 1/14/47 collected by Dorothy Allen.

3988 - *Sobralia* *DEORA* - (see pickle) (1)

3989 - *Trichocentrum* - (pickle only) (1)

El Valle - Trail to Carro Plata - 800 - 1000 m.  
1/2/47

3990 - *Voyria* *Allenii* - Pickle only - (1)



3991 - ORNITHIDIUM ? - (ZUAXILLARIA) Fls. Red-brown -  
(see pickle) (1)

3992 - ZUAXILLARIA - Fls. pale brownish tan - lig with  
BRSH KONITOPINKH NICHIN yellow callus - (see pickle) (1)  
Anther of sometimes attached to tip of labellum

Rio TOCUMAN - vicinity of PEORA - 50 m. Flowered  
AT RAMONA 7/5/46 - collected by WALTER FAURET

3993 - CATASETUM VIRIDIFLAVUM - (Pickle only)  
Male & Female flowers - (1)

Rio MATA AHOBAHO - vicinity of EL VERDE  
500 m. Flowered in the collection of MR. & MRS.  
James Barrett - BAS OBISPO - C. R.

3994 - Selenicium tenuifolium - (Pickle only) (1)

Cerro UYUCA - HONDURAS - 5000 FT. PINE - OAK  
CLEARINGS - with Prof C. Stanley and Louis O.  
Williams. 12/5/46

3995 - Lupinus - Fls. Blue (3)

3996 - Phaseolus - vine - Fls. purple - (1)

3997 - Hyptis - SHrub or woody herb - 1 m. (1)

3998 - ASTRAGALUS KONTUMALENSIS (1)

3999 - OREGANUM - TREE - 6 m. (1)

4000 - TILLANDSIA STANLEYANA - SUFFR BRACTS Red -  
Fls. DARK purple - common on PINES - (3)

4001 - CATOPSIS - common on PINES - (1)

4002 - *Tillandsia* - Bases  $\frac{1}{4}$  of leaves brown -  
Terminal  $\frac{3}{4}$  green - Sepals bracts red - Terminal  
bracts of inflorescence green - Flowers  
dark purple - common on pines - (2)

4003 - *Salmia dorisiana* Standley - Fls. BRIGHT PINK - (2)

Summit of

Cerro Uyucá - Honduras - 6000 ft. Cloud Forest  
12/5/46 - with Prof. C. Standley and Louis Williams

4004 - *Monotropa* - ~~Coelocarya~~ - *Monotropa* (2)  
Coelocarya - Fls. BRIGHT PINK -

4005 - *Prescottia stricklandii* - (1)

4006 - *Podocarpus* - Trees to 95 ft. very common - (4)

4007 - *Peperomia* - Epiphytic and terrestrial herb -  
common - *quadrifolia* (L.) HBK. (1)

4008 - *Psychotria* - Tree - 4 m. (3)

4009 - *Saurauia villosa* - Small tree - 6 m.  
Fls. white - (4)

Vicinity of El Zamorano - Honduras - 2500 ft. Williams  
12/7/46 - with Prof. C. Standley and Louis O. Williams

4010 - *Hyptis martiniana* Benth. - Herb - 2 m. (2)

4011 - *Croton poperei* Standley - Shrub - 1 m. (3)

4012 - *Achyrocline amorphoides* Liebm. Tree - 6 m. (2)

4013 - *Pisonia maritima* L. Tree - 15 m. (2)

4014 - *Espejita mexicana* DC. Herb - common - (1)

4015 - *Zinnia mexicana* - Fls. dull red - common (3)

4016 - *Triumfetta charonii* Standley - Shrub - 6 m. (2)

4017 - *Richthia hirta* L. Tree - 15 m. (1)

4018 - *Ipomoea arborescens* - woody shrub - 3 m. Fls. white (2)

4019 - *Rhynchospora bougainvillei* Aublet - Tree - 6 m. (2)

4020 - TREE - 6 m. FRUITS RED - (3)

4021 - ARISTOLOCHIA - FLs. BROWN - TINTED WOOLY  
LIANA - FLs. produced from old woody stems - (1)

\* HOODURA'S NOTES TO HALL'S STENT WOODS 2/15/47

vicinity of CHIVA CHIVA - ~~100 m.~~ 100 m. 1/15/47  
collected by WILLIAM FAIRBANKS

4022 - EPIDENDRUM SELLETERIANUM AICES -  
(see pickle) FAIRBANKS. (1)

Cerro Campana 800 m. 1/15/47 -

4023 - ARDISIA COMPRESSA HBK. - TREE - 6 m.  
FLs. PINK - (4)

4024 - SHRUB OR STOUT HERB - 1 m. NOTE  
ODD FRUIT - (1)

4025 - MAXILLARIA - S + P. pale green - tinted lavender -  
lip pale green - with median yellow callus -  
another cal sometimes referring to point  
of labellum - (see pickle) (1)

4026 - MAXILLARIA - S + P. yellow - lip red - brown -  
(see pickle) (1)

4027 - EPIDENDRUM RAVICANS - Summit of Rock  
Face - (see pickle) (1)

4028 - EPIDENDRUM AICEPS - FLs. greenish yellow. (1)

4029 - BROUCHIERIA - KUZMANIA DISSITIFLORA (ANDRE)  
L. B. SMITH - (1)

4030 - *Broussaisia* - SAGE BRACTS. Red - Fls.  
white - common - (1)

Vicinity of ARAUQUA - 50 mi. 1/23/47

*PEIRANISIA VELUTINA* BRITTON & KILLIP  
4031 - SHRUB - (CASSIA) 1 1/2 mi. Fls. yellow - very  
common to marshes flooded in the wet season - (5)

*CASIMYRIA ERIOSTACHYS*

4032 - *Schinus molle* - TREES - AVERAGE 8 METERS  
BUT SOMETIMES REACHING 15 METERS UNDER  
FAVORABLE CIRCUMSTANCES - Fls. yellow -  
seen only in the area from Arauquá  
to the OCU ENTRANCE ROAD - (8)

Vicinity of Campaña - 100 mi. 1/21/47

4033 - *Pithecolobium*? - WOODY VINE - Fls. purple -  
very common - (2)

4034 - *Schinus molle* - LARGE TREES - 25 M. Fls.  
yellow - known locally as "INDIO"  
seen from MANDUA TO CERRO CAMPANA -  
COVERING AREAS OF 100 INCH PRECIPITATION -  
OFTEN CLUSTERED IN "MANCHAS" OF 8-10 TREES (15) (1)

NOT TO BE CONFUSED WITH NO. 4032

~~4035 - *Peirania velutina* (HBK) DC - woody herb -  
1 1/2 mi. from Arauquá~~ (1)

Vicinity of Ocu - 100 m. 1/22/47

- 4035 - Mimosa pudica - Fls. pink. (2)
- 4036 - Bauhinia - Small unarmed tree - 6  
meters - Fls. white - (4)
- 4037 - Leucaena - tree - 15 m. Fls. white - (7)
- 4038 - Calycophyllum candicansimum (Vahl) DC.  
Trees - 20 m. Fls. + bracts white - (4)
- 4039 - Mouroua aculeata Ruyr. ex Fourn.  
dense spiny clumps - 20 m. common  
along stream courses - (8)
- 4040 - Pectis ~~capitata DC.~~ <sup>capitata DC.</sup> Herb - Fls.  
yellow - capitata - DC. (2)
- 4041 - Acanthaceae Herb - Fls. pink - (2)
- 4042 - Pterolepis pumila (Bonpl.) Cogn. Fls. pink. (1)
- 4043 - Desmodium castanifolium (HBK) DC.  
woody herb - 1 1/2 m. Fls. pink. (1)
- 4044 - Rhyssanthusa mexicana DC. woody  
herb - 1 m. Fls. royal purple - (2)
- 4045 - Menthaea - Fls. lavender - (1)
- 4046 - Composite - Fls. pale yellow - (1)
- 4047 - Rosselia verticillata HBK. stout  
herb - 1 m. Fls. red - (1)
- 4048 - Scholtesia tomanensis (Aubl.) Mart.  
Fls. pale pink - (1)
- 4049 - Peperomia latifolia (Rode) Roem.  
common tree - 8 m. (2)
- 4050 - Herb - common in pastures - (3)
- 4051 - Solanum - small tree - 3 m. Fls. white - (3)
- 4052 - Combretum <sup>fruticosum HBK.</sup> woody scandent shrub  
8 m. Fls. greenish yellow - fruits  
red-brown - common - (5)
- 4053 - Menthaea - tall herb - 1/2 m. Fls.  
lavender - (2)

- 4054 - *Carex pruriifolia* HBK. woody herb - 1 1/2 m - Fl. yellow - common - (1)
- 4055 - *Davilla lucida* Presl. scandent shrub - 4 m. (1)
- 4056 - ~~*Chrysanthemum*~~ *Triumfetta* - shrub - or woody herb - 1 1/2 m. (3)
- 4057 - *Wattieza stolonata* Presl - shrub - 1 1/2 m. Fl. white - common - (3)
- 4058 - *Bouzauna ulmiifolia* Lam. (1)
- 4059 - *Asclepias curassavica* L. (1)
- 4060 - shrub - 2 m. fruits red - (3)
- 4061 - *Sida* - Fl. buff - common weed - (2)
- 4062 - *Hymenaea courba* L. - tree - 15 m. (1)
- 4063 - *Anacardium occidentale* L. small trees - planted along road side - common - (1)
- 4064 - ~~*Alphitonia*~~ <sup>*Bursera*</sup> *Simarouba* (L.) Rose - small tree 10 m. common - (1)
- 4065 - *Jatropha curcas* L. shrub - 3 m. sterile - (1)
- 4066 - *Apitandra* - shrub - 2 m. Fl. pink - (2)
- 4067 - *Clusia* - <sup>*Odontia* Seem.</sup> tree - 12 m. Fl. pink - common - (5)
- 4068 - *Myrsineae* - <sup>*Ardisia revoluta* HBK.</sup> tree - 3 m. (2)
- 4069 - *Inga spuria* H. & B. tree - 20 m. Fl. white - (3)
- 4070 - *Arabisida candicans* (Ch. C. Rich.) DC. Liana - Fl. purple (4)
- 4071 - *Cochlospermum vitifolium* (Willd.) Spreng. (1)
- 4072 - *Mussaenda trifida* (Jacq.) Winkl. Arn. woody vine - Fl. green - (1)
- 4073 - *Convolvulaceae* - vine - Fl. lavender - (1)
- 4074 - *Digitaria robinoides* Benth. "maceao" common tree - 6 m. Fl. yellow - (1)
- 4075 - *Anacardium excelsum* (Bart. & Bate) Skeels. tree - 25 m. sterile (Burm.) Trin. (1)
- 4076 - *Conostema subcrustulata* - shrub or woody herb - 1 1/2 m. Fl. pink - (1)

- 4077 - ACANTHACE - HERB - Fls. PINK - Common  
plant 2 TRUNKS - (3)
- 4078 - JACQUEMONTIA PENTANTA - (Jacq.) DON  
Convolvulaceae - Fls. White - Common (2)
- 4079 - SOLANUM, vine - Fls. pale blue - (1)
- 4080 - IPOMOEA TRILOBA L. vine - Fls. lavender - (1)
- 4081 - BOSSYPIUM ~~TRIDENS~~ <sup>TRIDENS COOK & HUBBARD</sup> ~~TRIDENS~~ - STOUT  
woody HERB - 4 m. - Fls. ~~pale~~ yellow <sup>pink</sup> (1)
- 4082 - CAECALIA FISSILIS VETH. TREE - 15 m. (3)
- 4083 - TREE - 15 m. (3)
- 4084 - CAESALPINIACEAE - HERB - 1/2 m. Fls.  
yellow. common weed - (1)
- 4085 - COMPOSITE - woody HERB - 2 m. Fls. pale  
lavender - common - (2)
- 4086 - AMARANTHUS SPINOSUS L. (1)
- 4087 - AESCHYNOMECE AMERICANA L. weak HERB -  
2 m. Fls. yellow (1)
- 4088 - CENTROSEMA PUBESCENS Benth. VINE -  
Fls. lavender - (1)
- 4089 - SALVIA OCCIDENTALIS Sw. Fls. Blue  
common weed - (1)
- 4090 - OELIMUS MICRANTHUS Willd.  
common weed - (1)
- 4091 - VINE - Fls. pale pink - (4)
- 4092 - LIPPIA HEMISPHERICA Jacq. AFRICAN  
SHRUB - to 5 m. Fls. white - (2)

NOTES TO HERE SENT TO  
 WOODSON 1/31/47

- 4093 - LAUREA SPECIOSA Willd. - TREE - 20 m.  
Common on edges of PRAIRIES. (1)
- 4094 - HERPETICA ALATA (L.) Raf. - Small TREE - 4 m.  
Fls. yellow - common (2)

4095 - *Loetia Seemana* Dinkh & Planch. - Tree - 20 m.  
Fls. white, common along streams. (1)

Rio Viejo - vicinity of Puerto Pilon - Colon Prov.  
10 m. FEB. 2, 1947

4096 - *Setaria* - Forming dense colonies in shade -  
Stout branching species to  $\frac{3}{4}$  m tall - stems  
often to 2 m in length. (3)

4097 - Tree - 25 m. Fls. white - (3)

4098 - <sup>woody</sup> Malvaceae - Stout herb - 3 m. Fls. yellow - Calyx  
& fruit bright red - veins of undersides of  
leaves bright pink - very showy & handsome. (5) (6)

4099 - Tree - 7 m. Fls. white - (7)

4100 - *Triumfetta* - Shrub - 2 m. Fls. yellow. (4)

4101 - *Neorhiza lobata* (L.) R. Br. - <sup>woody</sup> herb -  
2 m. Fls. yellow - (1)

4102 - *Labiopsis Oaxacensis* (Steud.) Hitchc. - Bamboo - (2)

4103 - Palm - Completely Acaulescent - 12-15 flowers -  
spikes produced at stem level between flower  
axils - seemingly with separate staminate &  
pistillate inflorescences - fruit clusters often  
very low in the flower axil so as to be  
nearly or quite invisible from a short  
distance - very common in heavy forest. (1) (6)



JUAN MINA PLANTATION - RIO CHANES - REGION ABOVE  
NUMBER - 25 m. 2/3/47

4104 - ERYTHRINA STUCCA Willd. "SALITO" - TREES -  
15 METERS - EXTREMELY COMMON ON FLOODED LAND  
AND ISLANDS - FL. ORANGE - FLOATING GRASS  
ISLANDS TEND TO ACCUMULATE IN STAGNANT WATER  
AND SCROVING OF THIS SPECIES TAKE ROOT IN THE  
FLOATING MATS, EVENTUALLY ANCHORING THEMSELVES  
TO THE BOTTOM & THEN FORMING IN TIME PERMANENT  
ISLANDS -

4105 - CONVULVACEAE - FLOATING AQUATIC HERB IN SHALLOW  
WATER ALONG SHORE - FL. LAVENDER -

TRICHANTHERA HIRANTIA (HBK.) HUMB. & BERTH.  
4106 - TREE - 12 m. BROWN WITH BRIGHT RED  
IN MARSHY LAND - FLOWERS BRIGHT BROWN -

4107 - CONVULVACEAE - VINE - FL. YELLOW - COMMON.

4108 - SPINDACEAE - WOODY LIGNA - FL. WHITE -

4109 - CEPHAELIS TOURNETOIA (AUBL.) VATH. - SHrub -  
2 m. BRACKS RED -

4110 - ROBINEAE - SMALL TREE - 4 m.

4111 - BIXA ORCHANA L. - TREE - 10 m.

4112 - ANANTHERAE - HERB - 2 m. FL. PURPLE -

4113 - HELICTERES KARWINIAEFOLIA HBK. - SHrub  
3 m.

4114 - FABACEAE - WOODY LIGNA - FL. PINK.

4115 - OPLISMENUS HIRTILLUS (L.) BEAUV. COMMON

4116 - FABACEAE - FL. REDDISH BROWN -

4117 - HELICONIA - BRACKS GREENISH YELLOW -  
FL. YELLOW - TIPPED DARK GREEN - 2 m.

4118 - HERB - FL. WHITE -

4119 - WOODY HERB

4120 - COMPOSITE - TALL WOODY HERB - FL. LAVENDER

4121 - EUPHORBIA TRIDENTATA VATH. FL. BLUE -

4122 - IRESINE CLOSIA L. - FL. WHITE

- 4123 - CONVULVULACEAE - VINE - FLs. Purple - Common. (2)
- 4124 - PIROPOUS AZUREUS (SWARTZ) RAV. common  
AQUATIC - FLs. Blue - (1)
- 4125 - TRIUMFETTA HISPIDA A. RICH. woody HERB -  
2 m. Common (1)
- 4126 - HIBISCUS - woody HERB - 2 m. FLs. PINK. (2)
- 4127 - SOLANUM - WEAK - THICK SHAWB - 1 1/2 m.  
FLs. Blue - (1)
- 4128 - JUSSIAEA NATANS H. B. K. - Floating  
AQUATIC - FLs. white - very common - (1)
- 4129 - CABOMBA AQUATICA AUBL. Common  
AQUATIC - FLs. PINK - (1)
- 4130 - HELICONIA - 3 m. BRACTS GREEN - FLs.  
LARGE - RED - Prominently EXsertED - (1)
- 4131 - CALATHEA LUTEA (AUBL.) R. F. W. Meyer.  
3 m. BRACTS BROWN - FLs. yellow - Common (1)
- 4132 - DATE CANNONIA TILIAEFOLIA Lam. BRACTS CRIMSON  
colorED - Common VINE - (1)
- 4133 - RODRIGERIA SECUNDA Kunth - FLs.  
Pink - very common on CITRUS - (see picture) (1)
- 4134 - TILHANSIA BARBISIANA SCHULT.  
Very common on citrus - (3)
- 4135 - CATOPSIS NUTANS (Sw.) Triseb. very  
common on citrus - (2)
- 4136 - TILHANSIA FASCICULATA Sw. common on citrus (1)
- 4137 - woody HERB - 1/2 m. (2)
- 4138 - APHETANORA BINCULARIMA NEES - SHAWB - 3 m.  
BRACTS CRIMSON - FLs. lavender - Common - (2)
- 4139 - POLYRANUS PUNCTATUS Ell. - Floating  
AQUATIC HERB - Common - (1)
- 4140 - CLIBATIUM SURINAMENSE L. SHAWB - 2 m.  
Common - (1)
- 4141 - SERJANIA RHOMBEA RADLK. - Common vine - (1)
- 4142 - EUPHORBACEAE - Small TREE - FLs. DARK  
RED - (2)

- 4143 - ANANTHAEAE - Fls. pink - common - (2)
- 4144 - ROBINIAEAE - Small tree - 3m. Fls. yellow - (2)
- 4145 - SIDAEEAE - very common - (2)
- 4146 - VISMIA VIRIDIFLORA DUCHASS. Small tree 4 m. Fls. green - common - (1)
- 4147 - DAVILLA KUNTHII ST. Hil. - woody liana - Fls. yellow - common - (1)
- 4148 - woody liana - Fruits brown - (3)
- 4149 - FABACEAE - woody vine - Fls. purple - very common in prairie places - (2)
- 4150 - LASIACIS OAXACENSIS (STEUD.) HITCHE. Bamboo - 4 m. common - (1)
- 4151 - CHAMAEFISTULA BRILLARIS (L.F.) W. DON Small tree - 3m. Fls. yellow - (2)
- 4152 - Bromeliad - common on citrus - (3)
- 4153 - COELOSPERMUM VITAEFOKURE (WILLD.) SPRENGER (1)
- 4154 - MICONIA ARGENTA (SW.) DC. - tree - 12 m. Fls. white - common - (5)

Rio MATUNCILLO - VICINITY OF SANTA ROSA - 25 m.  
2/3/47

- 4155 - ERYTHRINA STAVEA WILLO. (1)
- 4156 - HIRTELLA AMERICANA L. - SHRUB - 3 m. Fls. purple - (2)
- 4157 - LUFFERA SEEMANNII RIBAK & PLANCH - tree 25 m. Fls. white - (2)
- 4158 - HERPETICA ALATA (L.) RAF. - SHRUB - 2 1/2 m. Fls. yellow - common - (1)
- 4159 - TRIFOLIUM FERTONIANUM BATEM. ex LINCOL. (1)  
very common on bare trees. (see pickle)
- 4160 - SHRUB - 1 m. ~~Fls.~~ Introduced Asiatic weed - (2)
- 4161 - HAMERIA NOBOSA MART. & RAU. SHRUB - 2-3 m. Fls. orange - few - (1)

- 4162 - Tree - Lehoue - 12 m. (2)  
 4163 - *CARDIOSPERMUM SPANDIFLORUM* Sumate.  
 vine - fls. white (1)  
 4164 - Tree - 15 m. fls. white (2)  
 4165 - *STIMMOPHYLLON* - vine - fls. yellow (1)  
 4166 - *CYCISTA Aequinoctialis* (L.) MiERS  
 woody liana - fls. pink (1)

Cerro Parita - Hills north of EL VALLE DE ANTON  
 1000 - 1200 m. 2/7/47 with Dorothy Allen

- 4167 - *Epiphyllum* - fls. green (1)  
 4168 - *Cephaelis juncifera* Sw. STROB OR SMALL  
 Tree - 3 m. bracts orange - red - fls. white (1)  
 4169 - *Hymenophyllum fucoides* Sw. Filmy Fern  
 Common (1)  
 4170 - *Polythaceae* - fls. white - Common (4)  
 4171 - *Trichomanes* - Common (2)  
 4172 - *Maxillaria* - Sepals & Petals white  
 Lip reddish brown on under surface, erect  
 for the floral tube which is cream yellow.  
 yellow callos (see picke) (1)  
 4173 - TREE FERN - very stout short trunk  
 3 m. 10" diam. like Costa Rican *Paco*  
 de mico - Common (1)  
 4174 - *Begonia Allenii* Standl. fls. dark pink -  
 Common (1)  
 4175 - *Melastomaceae* - tree - 3-6 m. in dense  
 forest - 1200 m. fls. white - very fragrant (4)  
 4176 - GRASS - INFREQUENT (1)  
 4177 - *Maxillaria* - S. & P. Red - corolla green -  
 lip red - marked white. Callos yellow  
 (see picke) (2)  
 4178 - Epiphytic shrub - 1/2 m. fls. green (2)

- 4179 - *VERNONIA* - SCANDENT SHRUB - 3m, Fls.  
WHITE - (1)
- 4180 - *BURMEISTERIA AUROBARBATA* (E. Wimmer.) E. Wimmer,  
Epiphytic Herb - 3/4 m. Fls. Brown - (1)
- 4181 - *Psychotria peperomiaefolia* Standl. Epiphytic  
Shrub - Fruits Red - Common - (1)
- 4182 - *Tillandsia bahnacastensis* Standl. (1)
- 4183 - *Columna rubra* Morton - Calyx Red - with  
stems separate maroon - Undersides of  
leaves nice Red - Flowers bright yellow - (1)
- 4184 - *Arctostaphylos Allenii* L. B. Smith - Scape Erect  
Bright Pink - Fls. Deep Lavender - Common - (1)
- 4185 - *Epiderorum crassilabium* P. & F. 9. & P. Tan  
Havily blotched Red-Brown - Lig. pale yellow  
Floral joint lavender - (1)
- 4186 - *Kuzumia watkinsii* L. B. Smith - Scape  
bracts striped Red & green - Fls. yellow - (1)
- 4187 - *Lisimachia* sp. Shrub - 3m, Fls. yellow -  
Tipped green - (2)
- 4188 - *Anthurium* sp. - Epiphytic - (1)
- 4189 - *Pleurorrhiza* - Fls. maroon - (see picture) (1)
- 4190 - *Pitcairnia* - Terrestrial - Fls. Red - Common - (1)
- 4191 - Tree - 3m. In elfin forest - Fls. white - (5)
- 4192 - *Mimiltharia Endressii* var. *arabideseoides* - (1)
- 4193 - *Ceiba Allenii* Woods. Tree - 20m, thick  
16" diam. Fls. white - Stamens yellow - (3)
- 4194 - *Schattleria* - Epiphytic Shrub - 1m, Fls.  
white - (2)
- 4195 - *Euterpe jamaicensis* Burret 3-4 m.  
Dwarfed by wind - in elfin forest - (1)
- 4196 - *Ornithocarpus* - 84 P. white - lig. dark  
green - maroon white - (see picture) new? (1)

Rio Viejo - vicinity of Puerto Pilon - Caba Province  
10 m. Feb. 2, 1947

4197 - *Heliconia Bihai* L. common - (1)

JUAN MINA - RIO CHARRAS - 25 m. 2/3/47

4198 - *Cordia Alliodora* ( Ruiz + Pavon ) ROEMER + SCHULTZ.  
TREES - 15 m. Fls. white - common - (3)

4199 - *Heliconia Bihai* - L. common - (1)

4200 - *Calathea lutea* ( Aubl. ) W. F. W. Meyer  
3 m. BRACTS BROWN - Fls. yellow - undersides  
of leaves white - common (1)

4201 - *Ochroma Miconioides* Roubin - tree - 15 m.  
Fls. white - common - (1)

Vicinity of Beluco - sea level - 2/7/47 -

4202 - *Bignoniaceae* - woody liana - flowering without  
leaves - very common in low trees along  
highway - Fls. pink - (4)

4203 - *Tournefortia pentaphylla* ( L. ) HBK. trees - 20 m.  
common to rocky hills EAST of Beluco -  
Fls. pink - (2)

LA YARHE - floor - 600 m. 2/7/47

4204 - *Anacardium excelsum* ( Bart. & Ehb. ) SKEEL.  
Trees - 25 m. common along streams - (1)

4205 - *Shorea thalicti muricata* SKEEL. Fls. yellow.  
very common - (1)

4206 - *Gustavia* - tree - 20 m. trunk 12" diam.  
Fls. lavender - (1)

Hills South of El Valle - 700 m. 2/7/47 -

- 4207 - *Scaphylophora* - Fls. white - common. (2)  
4208 - *Epidendrum Ibatuense* HBK. - common on  
Riverside banks in grass - (see pic) (2)  
4209 - *Dysoxylum montanum* (Benth.) Gray - Fls.  
orange - common Shrubby Herb. (1)  
4210 - *Lisimachis corymbosus* Perkins - Shrub -  
2 m. Fls. yellow. (1)

Trails & Clearings North of El Valle - 700-800 m.  
2/7/47

- 4211 - *Encelium ciliolobum* Rehb. Fls. yellow  
common. (1)  
4212 - *Woodsia?* woody Herb - 1 m. Fls. white -  
common in clearings. (3)  
4213 - *Mimosa* - Shrub - 3-4 m. common along  
trails - ~~and~~ in hillside clearings. (2)  
4214 - woody Herb - 3 m. Fls. yellow. (1)  
4215 - *Begonia* *Amifolia* R. DC. woody Herb -  
to 2 1/2 m. Fls. very pale pink. (3)  
4216 - *Begonia squarrosa* R. DC. Fls. white. (1)  
4217 - *Centropogon nutans* Phil & Oakes.  
Scandent Shrub - 3 m. Fls. pink. (1)  
4218 - *Myriocarpa yzambiensis* (Dun. Sm.) Killip.  
Small tree - 4 m. common in second growth  
along trails - Fls. white. (1)  
4219 - *Aechmea* - Shrub - 3 m. (2)  
4220 - *Iresine celosia* L. woody Herb - 2 m.  
Fls. white. (1)

El Valle - FLOOR - TRAILS near TRAPICHE - 600 m. 2/7/47

- 4221 - SIDA? - woody Herb - 3 m. Fls. yellow - (4)
- 4222 - COENUTIA GRANDIFOLIA VAR. NORMALIS (KUNZE)  
mohdenke - Tree - 6 m. Fls. Blue - (1)
- 4223 - MIMODIENNUM STERILENS (BENTH) WOOD.  
Tree - 20 m. Fls. Pink - Also on Cerro  
Caugua - (1)
- 4224 - woody Herb - 2 m. Fls. Blue - common (2)
- 4225 - LONOCLOBO'S ALLENII wood. - woody vine,  
Frequent along trails - Fls. green - (1)
- 4226 - ACHITAEAE - woody Herb - 1 1/2 m. Fls.  
pinkish orange - (1)
- 4227 - COMPOSITE - BRANCHING woody Herb - to 3 m.  
Fls. yellow - common along trails - (4)
- 4228 - SYNEDELLA NOVIFLORA (L.) KAERTN. Herb -  
1/2 m. Fls. yellow - (1)
- 4229 - TRICHANTH - woody Herb - 2 m. (3)
- 4230 - IRESINE - SCANDENT Herb - 3 m. (2)
- 4231 - SIDA - <sup>Bushy</sup> woody Herb - 1 m. Fls. yellow -  
common (3)
- 4232 - CROTON - SHrub - 2 m. Fls. white - (3)
- 4233 - ORNITHOGALUS COEHLERIFORMIS C. SCHUBER. (1)
- 4234 - Bushy Herb - 2 m. Fls. white - (2)

CERRO CAUGUA - 800 m. Collected by William Fitchell  
1/24/47

- 4235 - MAXILLARIA - Fls. TAN - (see pickle) (2)
- 4236 - PRESCOTTIA OLIVANTHA (SW.) LINCH. (1)

CERRO CAUGUA - 800 m. Fls. stained 1/6/47

- 4237 - MAXILLARIA - Same as No. 4235 - (1)
- 4238 - SPIRANTHUS ACROBIS (VIE. SM.) COEN.  
ON ROCK FACE - (see pickle) - Fls. green (1)  
see KENTON PHOTO



Cerro Chingana - 500 m. Flo. NAMBORA 2/14/47

4239 - EPIDENDRUM ANCEPS - Jacq. (1)

VICINITY OF SENA - Flo. NAMBORA 2/6/47

4240 - TRICONIDIUM FERTONIANUM BATEA, ex Lindl.  
Sepals & petals pale greenish yellow - the  
petals striped brown + with round brown spot  
at tips. Reversed front lobe of lip  
yellow - Inner lip under column striped  
brown - Common on large trees in  
pastures - See also 4159 (1)

4241 - LAELIA KOEPPENII (Prill.) L. Wms.  
S. & P. brown - lip pinkish lavender  
edge brown with central yellow callus -  
(See picture) (1)

VICINITY OF DAVID - CHIRIQUI PROVINCE - 25 m.  
Flowers NAMBORA 2/15/47

4242 - ONCIDIUM STIPITATUM Lindl. S. & P. very  
heavily blotched red-brown - labellum + lateral  
lobes bright yellow - crest heavily spotted  
red-brown - <sup>Reverse</sup> surface of lip heavily  
spotted red-brown - (See picture) (2)

Vicy. Rio de Jesus - Flo. NAMBORA 1/4/47

4243 - BOBOLYTHUM JACQUETII Kuhn. (3)

Vicy. Rio de Jesus - Flo. NAMBORA 2/15/47

4244 - ASPASIA EPIDENDROIDES Lindl. -

VICINITY OF ESQUINTLA - GUATEMALA - 100 m. Flowered  
in the collection of Nathaniel F. Pichler 2/1/47

4245 - ONCIDIUM CAVENDISHIUM BATH. Leaves very  
thick. S. & P. WHITE, UNDULATE - HEAVILY SPOTTED  
BROWN. Lip BROWN WITH UNDULATE WHITE MARGINS.  
CRIST & COLUMN NERVOUS. (SEE PICKLE) (1)

VICINITY OF EL ZAMORANO - DEPT. DE MORAZAN - 2500 FT.  
Flowered BANBORA 1/28/47

4246 - ONCIDIUM AFF. O. CAROLINAE - S. & P. yellow  
Heavily spotted LIGHT BROWN - Frontal & lateral  
lobes of lip yellow - callus LIGHTLY DOTTED  
RED - BROWN - (SEE PICKLE) (1)

HILLS SOUTH OF MANAGUA, NICARAGUA - 2500 m.  
VICINITY OF CASA COLORADA - Flowered BANBORA  
1/28/47

4247 - ONCIDIUM STIPITATUM Lindl. - S. & P. yellow -  
SPOTTED RED - BROWN. Frontal & lateral lobes  
of lip BRIGHT yellow - CRIST HEAVILY  
SPOTTED BROWN - (SEE PICKLE) (1)

RIO TEFMECHIN - HONDURAS - BETWEEN LAKE YOJA &  
SI BUATEPEQUE - 500 m. Fl. BANBORA 1/28/47

4248 - ONCIDIUM STIPITATUM Lindl. S. & P. yellow -  
SPOTTED RED - BROWN - lip & lateral lobes BRIGHT  
yellow. CRIST SPOTTED BROWN - (SEE PICKLE) (2)

4249 - NOTYLIA PENTACHE ROTH. F. Sepals pale brown  
parabls white, with one to several minute  
orange spots - lip pale white. (SEE PICKLE) (1)

4250 - ONCIDIUM LORIPURUM Lindl. - S. & P. Brown -

Lip Brown - with a rich yellow & mauve crest -  
column & the thick end pale pink - (see picture) ①

\* NOTES TO HERRI SWEET WOODSON 4/25/47

Rio Lindo - Honduras - Vety. V. = Puerto Blanco - 300 m.  
Dept. de Yoro - Flo. Number 2/24/47

4251 - BONBORA QUINQUENARVIS Ruiz et Pavon - Lower  
Sigsbee, petals & column heavily barred & spotted reddish  
brown - upper two sepals divided longitudinally  
in two distinct color areas, half pure white &  
half reddish brown. Labellum wax white, excepting  
frontal lobe, half of which is pale tan - (see picture) ①

Rio Viejo - Colon Province - Vety. Puerto Pilon - 25 m.  
Flo. Number 2/24/47

4252 - ASPERIA PRINCIPISSA Rehb. F. - Sepals & petals pale  
green - striped brown - lip pale yellow, with prominent  
pattern of darker yellow lines from the column.  
Column creamy white - (see picture) ①

Rio Matuncillo, Vety. SANTA ROSA - 25 m. Flo. Number  
2/24/47

4253 - LORICARTIA GALLICA Rehb. F. Sepals & petals white  
labellum pale yellow - (see picture) ①

Cerro Palmita - El Valle - 1000 m. Flo. Number  
2/20/47 -

4254 - MAXILLARIA - S. & P. THAI - Frontal lobe of  
lip Red - Brown - ①

4255 - *Scaphyloctis bilineata* (Roth. f.) Sullstr.

Yoro, Panama Vieja - Panama Prov. 0 m. (See Bennett's)  
2/18/47

4256 - *Pithecolobium oblongum* Benth. Tree - 4 m.  
Fls. white - Fruits red - (14)

Rio Mata - Atorazo - 300 m. vey. of El Valle -  
Fls. yellow 2/24/47

4257 - *Selenipedium laetifolium* Roth. f. (1)

Peña Blanca - Hot waters of the Rio Lirio - Dept. of Yoro  
Honduras - 300 m. Fls. yellow 2/18/47

4258 - *Conoclinium quinquevallis* Ruiz et Pavon - Fls.  
Rosset - Vinaceous - (See pickle) (1)

Carro Parita - El Valle de Antón - 1000 m.  
Fls. yellow 2/18/47

4259 - *Leckartia* - Fls. yellow - tip with orange  
callos at base - (See pickle) (2)

Carro Campaña - 800 m. Fls. yellow 2/16/47  
Collected by Dorothy Athan

4260 - *Trichostema* sp. Sepals green, Petals  
green - Throat brown - Labellum green white  
with red-brown markings at base. Anthers  
off woody - white - Corolla veins white.  
(Pickle, waxy) (1)

VCTY, SONA-VERA RUAZ PROVINCE - 1/23/47

4261 - *Stiricidia sapium* (Jacq.) Steud. - Small tree - 4 m.  
Fls. PINK - common along roadside - (4)

VCTY, LA CATORCELA - PANAMA PROVINCE - 50 mi 2/28/47

4262 - *Cassia grandis* L. F. - TREE - 20 m. Fls.  
PINK - (2)

4263 - *Cassia mesolepta* H. B. K. - TREE - 15 m.  
Fls. BRIGHT ORANGE - (4)

4264 - *Souroubea* - woody liana - (3)

CHIVA - CHIVA ROAD - PANAMA PROVINCE - 100 mi, 3/2/47  
woody climber

4265 - *Tabebuia* - TREE - 20 m. Fls. yellow - (3)

4266 - *Passiflora vitifolia* HBK. Fls. scarlet.  
Common - (1)

4267 - *Mangroecium flabrellum* (Benth.) Wedd.  
Tree - 15 m. Fls. pink - (2)

4268 - *Barleria micans* Nees - Fls. yellow - (4)

4269 - *Triplaris americana* L. - FRUITS DARK PINK -  
Tree - 15 m. (4)

CERRO PLATA - EL VALLE - 1000 m. Fls. number  
3/1/47 -

Orethia *Platypholis coriacea* di Wied.  
4270 - Sepals brownish olive, petals pale green,  
striped olive, lip near white, slender  
lanceolate on under surface - (see picture) (3)

FLD. RAMBOA

CERRO CAMPANA - Pinar - Province - 500 m 3/6/47

4271 - *Scaphylothos* sp.

(1)

Rio TEJEMECHE, Honduras - FLD. RAMBOA 3/1/47

4272 - *NOTYLIA gaudichaudii* ROTH. F. Sepals brown, petals white, with 1-3 minute orange spots, lip white - (SEE PICKLE)

(1)

VCTY. Rio DE JESUS - YERANOS PROVINCE - FLD. RAMBOA 3/2/47

4273 - *ASPASIA epidenroides* LAM. Sepals brown, with whitish margins. petals pale lavender, lip white, with prominent purple blotches. Ovary yellow. Column + anther cap tinged lavender - (SEE PICKLE)

(4)

VCTY. RAMBOA, C. 2. 100 m. 3/8/47

4274 - *Platymiscium*? - Tree - 12 m. Fls. orange - (5)

VCTY. PINONTANA - DARIEN PROVINCE - 20 m. 3/4/47

4275 - *COMBRETUM* sp. woody liana - calyx red - Stamens yellow - (5)

4276 - *Triplaris* - Fls. white - Tree - 10 m. (3)

4277 - *Thourea* vine - *Trinoria* tree - (3)

4278 - *Prothyridium* - vine - Fls. purple - (3)

4279 - *BURZUMA ulmi-folia* LAM. - Tree - 10 m. (4)

4280 - Weedy herb - 2 m. Fls. white - (2)

- 4281 - *Leucaena* - Tree - 30 m. (5)
- 4282 - *Heliconia* - 2 m. Bracts green, Fls. Rose Red - Prominently cascading (see picture) (3)
- 4283 - *Rubiacae* - Tree - 30 m. Fls. white - (5)
- 4284 - Tree - 30 m. (2)
- 4285 - *Lauraceae* - Tree - 30 m. (3)
- 4286 - *Anacardium excelsum* (Bart. & Bal.) Skeels. Tree - 25 m. (3)
- 4287 - *Tabebuia pentaphylla* (L.) Hemsl. Tree - 20 m. Fls. pink - (6)
- 4288 - *Convolvulacae* - Vine - Fls. yellow - (3)
- 4289 - Tree - 10 m. Fls. white - (5)
- 4290 - *Liana* - Fls. white - (4)
- 4291 - *Luetkea Seemannii* Trimen & Planch. - Tree - 30 m. (5)
- 4292 - *Aristolochia grandiflora* Swartz - Vine - Fls. blotched dark purple - (4)
- 4293 - *Petrea volubilis* Jacq. woody liana - Fls. blue - (1)
- 4294 - *Tabebuia kunyana* (Seem.) Hemsl. - Tree - 25 m. Fls. yellow - (2)
- 4295 - *Bombax Barrington* (Seem.) Desmanne - Tree - 20 m. Fls. white (2)

Loc. Belice - Panama Province - 25 m. 2/28/47

- 4296 - *Anacardium excelsum* (Bart. & Bal.) Skeels. Tree - 25 m. Common along streams - (2)

Loc. Yape - Rio Toira - Darien Province - 25 m. 3/5/47

- 4297 - *Kouzuia ulmifolia* Lam. - Tree - 12 m. (3)

- 4298 - COMPOSITE - TREE - 6 m. Fls. pinkish  
lavender - leaves grayish - Also seen  
on narrow banks of Rio Apimay - Colombia - (8)
- 4299 - WOODY HERB - 3 m. Fls. yellow - (4)
- 4300 - <sup>Rubiaceae</sup> WOODY HERB - 1 1/2 m. BRACTS RED - Fls.  
yellow - COMMON IN BANANA PLANTATIONS - (5)
- 4301 - GRASS - COMMON ON RIVERSIDE BANKS - (5)
- 4302 - AMARANTHACEAE - SCANDENT HERB - 3 m.  
Fls. white - (3)
- 4303 - Heliconia popayanensis HBK. - TREE -  
12 m. Fruits pink - (5)

4304 - CORN - DARIEN NO. 1 - RED - CULTIVATED BY LOCAL  
INDIANS

4305 - CORN - DARIEN NO. 2 - YELLOW.

4306 - CORN - DARIEN NO. 3 - RED - DWARF

VCTY. PINONANA - DARIEN PROVINCE - 20 m. 3/4/47

- 4307 - COMPOSITE - WOODY HERB - 2 m. Fls.  
white - COMMON - (5)
- 4308 - Heliconia zanzibar Hook - (1)
- 4309 - ONCIDIUM STIPITATUM Lindl. (SEE PICKLE)  
S. P. yellow - SPOTTED RED - BROWN - LACERATION  
yellow on both surfaces - (1)
- 4310 - GUSTAVIA SUPERBA (H. B. K.) Benth. - TREE -  
10 m. (3)
- 4311 - CECROPIA MEXICANA Hemsl. - TREE - 10 m. (2)
- 4312 - OCHROEA LIMEAENSIS Rowlee - TREE - 12 m.  
Fls. white - (2)
- 4313 - Heliconia BINAI L. (1)



Cerro Pasita - Region North of EL Valle de Abasco  
1200 m. Ito, SANBOA. 3/10/47

4314 - *Polycycnis barbata* (Lindl.) Rehb. f.  
S. & P. Pale translucent yellow, heavily spotted  
red. Labellum white, the lateral lobes spotted  
red. Lower frontal lobe white, spotted purple. ①  
Column green. Anther cap purple. (see pickle) ①

YCTY. Madden Dam, C. 2. 30 m. 3/20/47

4315 - TREE - 25 m. - RARE in cuipo dominated  
deciduous forest - LEAVES - (IF you don't  
believe it, open the seed pods !!) ⑨

YCTY. Pacora - 10 m. 3/16/47

4316 - *Dalbergia retusa* Hemsl. - TREE - 20 m. Fls.  
white - ⑤

"LA VICTORIA" - YCTY, La Joya - Panama Prov. 200 m.  
3/16/47

4317 - WOODY SCANDENT SHRUB. Fls. PINK -  
LEAVES - ③

Cerro Campana - 2000 ft. Fls. coll. Graham Freyre  
2/10/47

4318 - *Oncidium stipitatum* - (pickle only) ①

4319 - *Dicranium bidanckianum* (Rehb.) Hemsl. (pickle only) ①

4320 - *Epidendrum* aff. *E. nocturnum* - growing on  
rocks in full sun. (pickle only) 8 plants - ①

EL VALLE - 1800 FT. FLO. in the coll. DRAGON FAIRCHILD  
2/15/47

- 4321 - BONBORA QUINQUE NERVIS RUIZ ET PAVON (Pickle only) (1)
- 4322 - CATASETUM SCURRA RHB. F. (Pickle only) (1)
- 4323 - DICHAEA - (Pickle only) (1)
- 4324 - MAXILLARIA ENDRESII VAR. ANGSTISEGMENTA (A.S.)  
SCHWEINF. (Pickle only) (1)

CHIVA - CHIVA ROAD - 50 M. coll. DRAGON FAIRCHILD  
1/20/47

- 4325 - EPIDENDRUM SCHLECHTERIANUM FRIES - (Pickle only) (1)

CERRO CAMPANA - 1000 FT. FLO. coll. DRAGON FAIRCHILD  
1/20/47

- 4326 - EPIDENDRUM STAMFORDIANUM BATEM. (Pickle only) (1)
- 4327 - MAXILLARIA - (Pickle only) (1)
- 4328 - MORMODAS IRENEUM LINCH. (Pickle only) (1)

YCTY. BEDUCCO - 25 M. FLO. coll. DRAGON FAIRCHILD  
2/15/47

- 4329 - ONCIDIUM AMPLIATUM LINCH. (Pickle only) (1)
- 4330 - ONCIDIUM STIPITATUM ? - (Pickle only) (1)

CERRO CAMPANA - 2000 FT. FLO. coll. DRAGON FAIRCHILD - 3/15/47

- 4331 - EPIDENDRUM ONCIDIOIDES ? (Pickle only) (1)

VCTY. SANTA FE - VERAGUAS PROVINCE - FORESTED SLOPES  
OF CERRO TUTÉ - 3000 FT. 3/24/47

- 4332 - Bromeliad - Epiphytic - Same as on Cerro Pasita  
& Cerro Trinidad. (1)
- 4333 - Heliconia - INFLO. pendulous - apical  $\frac{1}{2}$  of  
bracts dark red - basal  $\frac{1}{2}$  yellow - 3 m. (1)
- 4334 - Papaveronia - Epiphytic - (1)
- 4335 - Columnnea - Epiphytic - calyx only - (1)
- 4336 - Eleanthus linifolius Presl ?? fruiting spec. (1)
- 4337 - Eleanthus divifolius Presl ?? fruiting spec. (1)
- 4338 - Maxillaria - (coll. by Truman Fairchild) S. & P.  
white - lip white, the frontal lobe yellow.  
(see pickle) (1)
- 4339 - Sedge - in heavy forest - (3)
- 4340 - Cavendishia - Epiphytic shrub - 2 m.  
bracts pink - fls. lavender - (9)
- 4341 - Tree - 15 m. fls. white - also on  
crest of Cerro Pasita - (5)
- 4342 - Acanthaceae - woody herb - 2 m. fls. red. (3)
- 4343 - Cavendishia dultherioides A. C. Smith - (3)  
Epiphytic shrub - 1  $\frac{1}{2}$  m. bracts pink -  
fls. pale yellow -
- 4344 - Spiranthes navarrensis (Ames) L. Wms.  
fruiting specimen - (1)
- 4345 - Rubiaceae - shrub - 2 m. fls. blue - (7)
- 4346 - Lobeliaceae - Epiphytic herb -  $\frac{3}{4}$  m. (1)
- 4347 - Melastomaceae - woody herb - 1 m.  
fls. pink - (1)
- 4348 - Cephaelis punicea Sw. - tree - 5 m.  
bracts orange-red - (4)
- 4349 - Centrojuncus - scandent shrub - 3 m.  
fls. red - tipped orange yellow - (1)
- 4350 - Gesneriaceae - herb - 1 - 1  $\frac{1}{2}$  m.  
fls. white - monopyle. (4)
- 4351 - Gesneriaceae - Epiphytic herb -  
fls. white - (1)

- 4352 - *CLUSIACEAE* - TREE - STILT ROOTS - 20 m. Fls. WHITE - STAMENS yellow - GOATY latex. (6)
- 4353 - *PSAMMISIA* - BRANCHING EPiphytic SHRUB - 4 m. COROLLA CORAL PINK - TIPS WHITE. (4)
- 4354 - *ERICACEAE* - EPiphytic BRANCHING SHRUB - COROLLAS CORAL PINK WITH DARK GREEN TIPS. (4)
- 4355 - *MELASTOMACEAE* - TREE - 75 FT. Fls. WHITE - ALSO ON CREST OF CARRO PATITA. (6)
- 4356 - *SMILACINA PANICULATA* - Fls. WHITE (1)
- 4357 - *BESONIA LABRA* AUBL. ?? - CHIMBINIA & ROOTING ON TREES - Fls. WHITE. (1)
- 4358 - *CUCURBITACEAE* - Liana - Fls. BRIGHT ORANGE. (1)

YCT4. SANTA FE - FORESTED SLOPES OF CARRO TUTE - 2500 FT. 3/25/47 - WITH DRAGON FAIRCHILD

- 4359 - *BUZMANIA QUATROKANSIS* L. B. SMITH. (2)
- 4360 - *BROMELIAD* - EPiphytic. (1)
- 4361 - *BROMELIAD* - EPiphytic. (1)
- 4362 - *COSTUS* - 1 1/2 m. BRANTS RED - Fls. RED. (1)
- 4363 - *BROMELIAD* - EPiphytic. (1)
- 4364 - *EPIDENDRUM* - Fls. GREEN - (SEE PICKER) (1)
- 4365 - *EPIDENDRUM CRYPTANTHUM* L. WMS. (SEE PICKER) Fls. WHITE. (1)
- 4366 - *COSTUS* - BRANTS RED - KAFFERS. (1)
- 4367 - *BOMAREA Allenii* Killip - VINE - Sepals Shell pink - petals pink, style green. (3)
- 4368 - *RONDELETIA* - TREE - 18 FT. Fls. PINK. (8)
- 4369 - *CENTROPYCHON NOTANS* - LAX SHRUB - 3 m. Fls. PINK. (1)

- 4370 - RUBIACEAE - WOODY HERB - 1 MI. FRUITS RED - (1)
- 4371 - SCAPHYNOTTIS - FLs. STRIPED LAVENDER - ALSO ON  
CURRO PASITA - (1)
- 4372 - EPIDENDRUM DIFFORME VACQ. FLs. GREEN - (1)
- 4373 - BESNERIACEAE. ?? - WOODY HERB - 2 MI. (2)
- 4374 - APHELANORA AURANTIACA (SCHIEDW.) LINDL. (1)
- 4375 - BERONIA SQUAMOSA C. DC. FLs. WHITE (3)
- 4376 - PALM - 6 MI. FRUITS YELLOW - (1)
- 4377 - PALM - 6 MI. (1)
- 4378 - MACROCENEMUM STABRESCENS (BENTH.) WOOD. TREE -  
15 MI. FLs. PINK. (3)
- 4379 - PRYMONIA - EPiphytic WOODY HERB - 1 MI. FLs.  
RASIN PURPLE - (3)
- 4380 - COLUMNEA ARISTA MORTON - FLs. SCARLET WITH  
DORON YELLOW STRIPES - (1)
- 4381 - COLUMNEA LOCALIS MORTON - FLs. RED -  
EPiphytic - (2)
- 4382 - EPiphytic SHRUB - RUBIACEAE? - FLs. SALMON  
RED - (2)
- 4383 - PLEUROTHALLIS - (SEE PICKER) (1)
- 4384 - PLEUROTHALLIS. (1)
- 4385 - PLEUROTHALLIS - (RESTRIPIA) (SEE PICKER) (1)
- 4386 - PLEUROTHALLIS - (SEE PICKER) (1)
- 4387 - EPIDENDRUM - POSSIBLY NEW. LF PURPLE -  
S & P. PINK GREEN - (SEE PICKER) (1)
- 4388 - PLEUROTHALLIS. FLs. RASIN PURPLE - (1)
- 4389 - CUCURBITACEAE - VINE - FLs. NEARLY  
WHITE - (3)
- 4390 - TREE - 10 MI. FLs. PINK GREEN - (5)
- 4391 - LORANTHACEAE - PARASITIC SHRUB IN TOPS  
OF LARGE TREES - 2 MI. FLs. YELLOW -  
FRAGRANT - (3)

- 4392 - CARICACEAE - TREE - 7 m. FL. WHITE - (6)
- 4393 - PLATYALOTTIS CORIACEA L. WALS. (SEE PICKLE) (3)
- 4394 - RUBIACEAE - GIANT WOODY LIANA - FL. WHITE - FRAGRANT - (5)
- 4395 - BROMELIAD - EPiphytic - (1)
- 4396 - RUBIACEAE - TREE - 8 m. FL. PURPLE - COMMON - (3)
- 4397 - GRASS? FL. WHITE - (1)
- 4398 - BROMELIAD - EPiphytic - (2)
- 4399 - RUBIACEAE - SHRUB - 4 m. FL. YELLOW - (2)
- 4400 - LYCASTE MACROPHYLLA LINDL. (SEE PICKLE) (1)
- 4401 - ODONTONEMA STRICTUM (NEES) KUNTZE - WOODY HERB - 1 1/2 m. FL. RED - (1)
- 4402 - ACANTHACEAE - FL. LAVENDER - (1)
- 4403 - MALVACEAE - TREE - 15 m. FL. WHITE - (1)
- 4404 - ARDISIA SEIBERTII - SHRUB - 4 m. FL. LAVENDER - (4)
- 4405 - MAXILLARIA - 9 1/2 ft. WHITE - LIP RED - BROWN - FOLIAGE BRASSIC GREEN - (SEE PICKLE) ALSO ON CARRO PASITA - (5)
- 4406 - PLEUROTHALLIS - (SEE PICKLE) (1)
- 4407 - TUXIMANIA DISSITIFLORA (ANDRE) L. B. SMITH (1)
- 4408 - HELICONIA - INFLO. ERECT - BRACTS BLOOD RED - FL. YELLOW - (1)
- 4409 - EPIDENDRUM - POSSIBLY NEW - (SEE PICKLE) (1)

4410 - ~~XXXXXXXXXX~~ - EPiphytic SHAUB - 15 CM. Fls.

Pale PINK - (SEE PICKLE)

(1)

4411 - PLEUROTHALLIS - (SEE PICKLE)

(1)

4412 - PLEUROTHALLIS (RESTYRIA) (SEE PICKLE)

(1)

4413 CEIBA ALLENII WOODSON - TREE - 20 M.

(2)

YCTG, SANTA FE - RIO SANTA MARIA - VERAGUAS  
PROV. 1000 FT. 3/26/47

4414 - EPIDENDRUM ATROPURPUREUM WILLO.

(4)

4415 - AJEIBA TIBOURBOU - AUBL. TREE - 6 M.

(3)

4416 - BOMBACOPSIS - TREE - 12 M. COMMON -

(3)

4417 - INRA - TREE - 8 M. Fls. WHITE -

(5)

4418 - MICONIA ARGENTEA (SWARTZ) DC - TREE - 4 M.

COMMON -

(4)

4419 - MORMONES JANEUM LINDL. Fls. olive green -

(1)

4420 - BRASSAVOLA NODOSA LINDL.

(1)

4421 - OCHRONA LIMONENSIS - TREE - 10 M.

(1)

4422 - CECROPIA MEXICANA - TREE - 10 M.

(2)

4423 - FLAHERIUM SIMARUBA (L.) ROSE - TREE - 15 M.

(3)

4424 - ANACARDIUM EXCELSUM (BERT. & BAB.) SKEELS -

(2)

4425 - COMPOSITAE - WOODY HERB - 2 M. Fls. WHITE

(5)

4426 - CASSALPINIACEAE - WOODY HERB - 1 1/2 M. Fls. yellow -

(4)

4427 - *HYMENOCYBE COURBARI* - TREE - 10 m. (1)

4428 - *VANILLA PLANIFOLIA* ANDR. FL. YELLOW (2)

4429 - *LOCKHARTIA* - FL. YELLOW - COMMON (1)

4430 - *MARANTHUM SCHIEDERANUM* CHAM. COMMON ON  
ROCKS IN STREAMS. FL. PINK (1)

YCTY, PINOYANA - DARIEN PROVINCE - 3/4/47

4431 - *JACARANDA COPAIA* - FL. BLUE - TREES - 20 m. (6)

YCTY, SANTIAGO - VERAGUAS PROVINCE - 3/28/47

4432 - *BYRSONIMA CRASSIFOLIA* (L.) HBK. TREES - 10 m. (2)

YCTY, DIVISA - 25 m. 3/28/47

4433 - *SAMANEA SAMAN* - TREE - 20 m. FL. PINK (2)

YCTY, SANTA FE' - VERAGUAS - 1000 FT. 3/26/47

4434 - *CASSIA GRANDIS* - FL. PINK - TREE - 20 m. (1)

4435 - *ANDIRA INERMIS* - TREES - 15 m. FL. LAVENDER (3)

4436 - *BYRSONIMA CRASSIFOLIA* - TREE - 10 m. (1)

4437 - *SAMANEA SAMAN* - TREE - 20 m. FL. PINK (3)



4438 - QUASSIA AMARA - SMALL TREES - 4 MI. FL. PINK -  
FORMING THICKETS UNDER LARGER TREES ALONG RD  
SANTA MARIA - (2)

4439 - TREE - 15 MI. FL. RASIN PURPLE - LEAVES - (4)

4440 - EPIDENDRUM IMATOPHYLLUM LINDL. - FL.  
ROSE PURPLE - GROWING IN ANT NESTS ALONG  
STREAMS - (4)

REGION WEST OF SANTA FE - DRY SLOPES OF CARRO  
TUTE - 1500 FT. - 3/25/47

4441 - CHRYSOPHYLLUM - TREE - 20 MI. (5)

4442 - BIJONACEAE - LIANA - FL. TRAVEL - PLANT IN  
PRESS WITH A STRONG ONION ODOR - (5)

CARRO PASITA. EL VALLE - 1200 MI. FL. RAMBOA  
4/9/47

4443 - PLANTAGINACEAE - SEE PICKLE (1)

CARRO ULUCA - VCTY. EL ZAMORANO - HONDURAS -  
5000 FT. FL. RAMBOA 4/8/47

4444 - BALEANDRA - EPiphytic ON OAKS - SIF P. VERY  
PALE GREEN - LIP WHITE, WITH PALE GREENISH YELLOW  
SPUR - TWO FAINT PINK LINES INSIDE THE LIP,  
COLUMN PURE WHITE - (SEE PICKLE) (1)

CARRO PASITA - EL VALLE - 1200 M. FLD. NAMBOA  
4/6/47

4445 - *Pleurothallis* - Fls. ROBIN PURPLE -

①

RIO MATA - ANORADO - 1500 FT. FLD. NAMBOA 4/2/47

4446 - *Selenipedium longifolium*

①

CARRO CAMPANA - 2500 FT. HEAVY FOREST - FLD.  
NAMBOA 4/2/47

4447 - *Pescatorea carina* ROHB. F.

①

VCTY. RIO DE JESUS - FLD. NAMBOA 3/20/47

4448 - *Epidendrum atropurpureum* - (SEE PICKLE)

①

RIO LINDO - KENOURAS - FLD. NAMBOA 4/2/47 -

4449 - Fls. ORANGE - SEE PICKLE -

①

EL VALLE - FLOOR - 1800 FT. FLD. NAMBOA 3/20/47

4450 - *Maxillaria charticifolia* A. G. S.,

Fls. PINKISH BROWN - (SEE PICKLE)

①

VCTY, PACORA - FLD. SANBOA 3/20/47

4451 - ONCIDIUM STIPITATUM - S & P. yellow, blotched  
red-brown - frontal & lateral lobes of lip bright  
yellow on both surfaces. callus slightly blotched  
tan. (see pickle) (1)

VCTY, CASA COLORADA - Hills south of MANANUA,  
NICARAGUA - 1000 FT. FLD. MANANUA 4/1/47

4452 - ONCIDIUM STIPITATUM? - S & P. yellow - spotted  
red-brown - lip yellow on both surfaces  
excepting for a central line of red dots on  
underside - (1)

VCTY, DAVID - CHIRIQUI PROVINCE - FLD. SANBOA  
3/20/47

4453 - ONCIDIUM STIPITATUM - ? - S & P. heavily blotched  
red-brown. frontal & lateral lobes of lip yellow,  
callus brown - undersurface of frontal lobe of  
lip heavily spotted red-brown - (see pickle) (1)

Hills near "La Joca" - PANAMA PROVINCE -  
4/13/47

4454 - BIGNONIACEAE - woody climber - FLD. MANANUA - (4)

Cerro Campana - 2000 ft. Flo. Amber 3/20/47

4455 - *Trichocentrum* -

(1)

Ycty. el Zamorano - Honduras - Flo. Amber  
3/20/47

4456 - *Epidendrum encicloides* - on pines - S.P.

Red-brown - lateral lobes of lig pale green -  
tinged purple on outer surfaces. Frontal lobe  
pale yellow, strongly veined purple. Column  
white, shading to purple at base. Anther  
cap yellow - (see pickle)

(1)

Ycty. Pico - Flo. Amber 4/10/47

4457 - *Encidium stipitatum* -

(1)

Rio Tapachula - Honduras - Flo. Amber  
4/20/47

4458 - *Notylia pentaneura* -

(2)

Ycty. National Airport - 4/13/47

4459 - *Koenysia ferruginosa* - tree - 15 m. Fls. Orange (2)

4460 - *Jacaranda copaia* - tree - 20 m. Fls. Blue (2)

4461 - *Byrsonima crassifolia* - tree - 10 m. Fls. Yellow (2)

HILLS NEAR LA JOYA - 2000 FT. 4/13/47

4462 - JACARANDA COPAIA - TREES - 20 m. FLG. BLUE - (10)

CURRO PASITA - HILLS NORTH OF EL VALLE  
1200 m. FLD. RAMBOA 4/12/47

4463 - EPIDENDRUM TZOYO BAMBAK KANZH. - S. & P.  
pale green, lip white - (SEE PICKLE) (1)

4464 - SOBRALIA BOUCHERII A. & S. (SEE PICKLE) (1)

HILLS NEAR RAMBOA, C. 2. 300 FT. 4/18/47

4465 - JACARANDA COPAIA - TREES - 20 m. FLG. BLUE - (2)

HILLS NEAR PEDRO TZOYUOK - C. 2. 300 FT.  
4/20/47

4466 - JACARANDA COPAIA - TREE - 20 m. FLG. BLUE - (4)

YCTY. TZOYUOK DAM. C. 2. 150 FT.  
4/18/47

4467 - JACARANDA COPAIA - TREE - 20 m. FLG. BLUE - (3)

BALBOA, C.R. 4/20/47

4468 - TREE - 20 m. CULTIVATED AS *PELTOPHORUM*  
*FERRUGINUM* - Fls. yellow - (4)

VEGET. SIQUATEJEPUE - HONDURAS - 5000 FT.  
4469 - *EPIDENDRUM ORCIDIODES* - S. & P. GREEN - LIP  
GREENISH WHITE. COLUMN MARKED RED-BROWN -  
(SEE PICKLE) (1)

EL VALLE - FLOOR - 1800 FT. 4/8/47

4470 - *ANDIRA INERMIS* - TREES - 12 m. Fls. <sup>PINKISH</sup> LAVENDER. (5)

4471 - *CASSIA FRANCIS* - TREE - 15 m. Fls. PINK. (4)

4472 - *ANDIRA JAMAICENSIS* - TREE - 10 m. Fls. PINK. (1)

4473 - *PASSIFLORA* - Fls. GREENISH WHITE. (3)

4474 - SAPINDACEAE - VINE - IN SECOND GROWTH SCRUB. (2)

4475 - VINE - (4)

4476 - *SCAPHYLOTTIS* - (1)

HILLS SOUTH OF EL VALLE - 2500 FT. 4/8/47

4477 - *TABEBUIA HETEROTRICHIA* (DC) Hems L. - TREE  
15 m. Fls. yellow - (2)

EL VALLE - LOMA DEL TIKRE - 1000 M. 4/8/47

4478 - *CARICA* sp. TREE - 6 M. in heavy forest - (2)

4479 - *COLWANEA* - UNDERWINDS OF LEAVES RED - (1)

4480 - *EPIDENDRUM* *excidioides* - SPP. TAN. LIP WHITE,  
MARKED PURPLE - (SEE PICKLE) (1)

4481 - *CAVENDISHIA* - EPiphytic SHRB. 1/2 M. (1)

VCTY, BELUCO - 4/12/47

4482 - *ANDIRA* *INERMIS* - TREES - TO 50 FT. FLG.  
LAVENDER - (4)

VCTY, CHORRERA 4/12/47

4483 - *TABEBUIA* *HETEROTRICHA* TREE - 18 M. FLG.  
YELLOW - (2)

4484 - *BYRSONIMA* *CRASSIFOLIA* - TREE - 10 M. FLG.  
YELLOW - TURNING BURNT ORANGE WITH AGE  
VERY COMMON. (2)

VCTY, SINUATEJECQUE, HONDURAS - 5000 FT.  
FLO. RAMBOA 3/20/47

4485 - *BLERIA* - SPP. TRAVEL - FRENCH LOBE OF  
LIP PURPLE - WITH RAISED YELLOW KEELS, THE  
LATERAL LOBES STRIPED RED ON THE INNER  
SURFACES - (SEE PICKLE) (1)

CARRO CAJONANA - 2000 FT. FLO. DAMBOA 4/2/47

- 4486 - EPIDENDRUM IONOPHLEBIUM ROXB. F. - S. & P. GREENISH  
WHITE - lip WHITE, LINED <sup>RADISH-</sup> purple - (SEE PICKLE) (3)
- 4487 - PHAEOSTALLIS - FL. CREAM WHITE - (1)
- 4488 - ONCIDIUM STIPITATUM - (1)

VCTY. ARRANJAN - 4/12/47

- 4489 - JACARANDA RHOMBIFOLIA B. F. W. MAY. - TREE -  
20 M. LG. BLUE, WITH WHITE SPOT INSIDE  
COROLLA - (FLOWERS ONLY) (1)

VCTY. CHORRERA - 4/12/47

- 4490 - CORN - CULTIVATED AT OUTSKIRTS OF TOWN - USED  
TO FATTEN PIGS & CHICKENS. OWNERS SAY THEY  
HAVE BEEN THERE BUT A SHORT TIME &  
THIS IS THEIR FIRST CORN CROP. PURCHASED  
SEED FROM A NEIGHBOR -

EL VALLE - VCTY. LA MESA - 1000 FT. 4/8/47

- 4491 - CORN - COMMON YELLOW - SMALL EARS -

NOTES TO HERE SENT WOODSON 5/7/47



MAIN ROAD - VERY SUMMIT - 5/4/47

4492 - BODMANIA AESCULIFOLIA (HBK) STANDL.  
(SEE FOSBERG 27394) TREE - 12 M.  
FLS. TAN - (9)

CARRO PASITA - EL VALLE DE ANTON - 3500 FT.  
5/12/47

4493 - Bromeliad - TERRESTRIAL ON STEEP BANKS - (1)

4494 - ZINGIBRACEAE ?? - TERRESTRIAL HERB -  
FLS. BRISTLE PINK - (1)

4495 - ASCLEPIAD - CORKY VINE - FLS. YELLOW - (4)

4496 - EPiphytic SHRUB - 6 FT. FLS. PURPLE - (2)

4497 - TREE - 10 FT. FLS. YELLOW - (1)

CARRO PASITA - 3000 FT. 5/12/47

4498 - TREE - 30 FT. FLS. WHITE - (18)

CARRO PASITA - 2000 FT. 5/12/47

ORNOZIA JANAMENSIS.  
4499 - LIGNUM - ANDIRA? - VERY LARGE TREES -  
90 FT. FLS. LAVENDER - FRISKY  
COMMON - (20)

EL VALLE CHIQUITO - <sup>1800 FT.</sup> FLD. TAMBOA 5/14/47

4500 - CYCNOCHAS DIANAЕ - (SEE PICKLE) (2)  
S + P. GREEN - SPOTTED RED - BROWN - LIP WHITE -

YCTY, DAVID - CHIRIQUI PROVINCE - FLD.  
TAMBOA 4/29/47

4501 - EPIDENDRUM - AFF. E. TANGENSE - S + P.  
GREENISH YELLOW TO TAN. LIP WHITE -  
(SEE PICKLE) SEE PHOTO - (6)

YCTY, PROORA - 150 FT. FLD. TAMBOA 5/8/47

4502 - CATASETUM VIRIDIFLAVUM - (STAMINATE FL.) (1)

CARRO CAMPANA - 2500 FT. FLD. TAMBOA 4/23/47

4503 - PLEUROTHALLIS - FLG. TRANSLUCENT - S + P.  
& LIP. HEAVILY STRIPED & SPOTTED PURPLE - (1)  
(SEE PICKLE)

YCTY, PROORRO - CHIRIQUI PROVINCE <sup>500 FT.</sup> FLD.  
COLL. HARRY DUNN - 5/9/47

4504 - CATASETUM MEXICANUM - LIP VERY HEAVILY  
SPOTTED RED - BROWN. S + P. VERY DARK  
RED - BROWN - (SEE PICKLE) (1)

YCTY, REMEDIOS - CAIRIPUI PROVINCE - 100 FT.

FLD. RAMBOA 5/9/47

CAIRIPUI

4505 - CATASETUM ~~MACROCARPUM~~ - deep GREEN - LIGHTLY  
SPOTTED RED-BROWN - S. 141. SPOTTED RED-BROWN -  
(SEE PICKLE) CAIRIPUI (1)

4506 - CATASETUM ~~MACROCARPUM~~ - SMALL FLD. DARK  
PHASE - (1)

CARRO TUTE - Hills WEST OF SANTA FE

VERAGUAS - 2500 FT. FLD. RAMBOA 5/9/47

4507 - STANHOPEA POLKA? - Sepals pale yellow  
petals yellow. Lip TAN - MARKED & MARBLED  
RED-BROWN - REDDISH BROWN callus -  
(SEE PICKLE) COMMON SEE PHOTO (1)

4508 - ELLEANTHUS - Hymenophorus REHB. FI  
Fls. yellow - deep EDGED ORANGE - (1)

4509 - PISCATORIA CARINA REHB. FI (1)

CASITAS, Dept. del PARAI'SO 2500 FT.  
HONDURAS - ~~NOTES SENT~~  
~~REASON FOR~~  
~~ATTEMPTED IN 1947~~

VCTY. ~~El Zamorano~~ - HONDURAS - 2500 FT.

FLD. TAMBOA 5/14/47 BRASSAVOLA CUCULLATA R. BR.

4510 - EPIDENDRUM - LEAVES TERRE. S & P. yellow,  
NARROWLY EDGED BROWN - FRONTAL LOBE of leaf  
yellow - NARROWLY MARGINED BROWN - LATERAL  
FRINGED LOBES of leaf & column PURE WHITE -  
(SEE PICKLE) ALSO SEE PHOTO - (1)

CARRO PATIYA - 3500 FT. 5/12/47

4511 - CYCLANTACEAE - STOUT EPiphytic plant - common - (2)

VCTY. Summit, C. 2. 5/18/47

4512 - RUBIACEAE - TREE - 20 FT. Fl. creamy white,  
FRAGRANT - Fairly frequent in clear second  
growth along road - (10)

VCTY. Beluco - 5/22/47 - Dry deciduous  
SCRUB -

4513 - LANTANA - SHRUB - 4 FT. Fl. very pale pink -  
common - (2)

4514 - STIGMAPHYLLON ellipticum (HBK) Juss.  
VINE - Fl. yellow - (1)

4515 - <sup>BURSERA TOMENTOSA</sup> PROTIUM ? - TREE - 15 - 20 FT. Deciduous during  
dry season - sometimes used for fence posts - common - (17)

YUCY. Summit, C. 2. 500 FT. Heavy Forest -

5/23/47

- 4516 - corky vine - Fls. dull red - <sup>milkly</sup> Sap caustic -  
Asclepiad - (10)
- 4517 - TURNERA PANAMENSIS URBAN - SHRUB -  
8-10 FT. Fls. orange - very showy - (10)
- 4518 - MELASTOMACEAE - SHRUB - 8-10 FT. Fls. white -  
very common on edges of scrub in ravines  
rare - (3)
- 4519 - MELASTOMACEAE - Small rounded tree -  
20 FT. Fls. white - (4)

ANCON Hill - C. 2. 200 FT. 5/24/47

- 4520 - TABEBUIA HETEROTRICHA TREE - 60 FT. Fls.  
yellow - (1)
- 4521 - ANNONA - SPREADING DECIDUOUS TREE -  
35 FT. (1)

Pacific lowlands - Flo. Coll. KRANON FAIRCHILD -

5/29/47

- 4522 - ONCIDIUM - Plants identical with O. PANAMENSE -  
SAP yellow - BARRED BROWN - lip BRIGHT yellow -  
See photo + pickle - (1)

Cerro Campina - 2000 ft. Flo. Nambuoa 5/23/47

- 4523 - *Epidendrum eburneum* Rob. F. - Sepals pale tan -  
Petals pale cream yellow - lip pure white - with  
Basal bright yellow callus - (see pickle & photo) ①  
Grows on rocks in full sun -

Yoty, Paeora - 50 ft. Flo. Nambuoa 5/14/47

- 4524 - *Catasetum viridiflavum* Hook - 3 sp.  
Green - lip green - with slight yellow shading  
on inner surface - (see pickle) ①

Rio Terecethu, Honduras - Flo. Nambuoa 5/14/47

- 4525 - *Epidendrum coelestium* L. - 8 sp. pale green  
outer <sup>surface</sup> 2/3 lip deep purple - basal 1/3 pale  
green - inner surface of lip 2/3 deep purple  
1/3 base white, with purple lines - center  
of lip with yellow wash over purple -  
(see pickle) ①

Rio Mata Abogado - 1500 ft. Yoty, Ch. Valle  
Flo. Nambuoa 5/14/47

- 4526 - *Dycaete Brewispatha* Kl. - Sepals very  
pale green - spotted pink - petals & lip white, spotted  
pink - (see pickle & drawing) ①

HILLS SOUTH OF MANAGUA, NICARAGUA - 1000 FT.

FLO. MANABOA 5/18/47 -

4527 - BRASSAVOLA - S & P. like green - lip white - (1)

Upper Rio Chico - DARLEN PROVINCE - 6/13/47

4528 - CORN - MEDIUM SIZED EARS, GRAINS BLACK & DARK RED - Kept separate & used for CHICHA - with NOT pop.

4529 - CORN - LARGE EARS - GRAINS ORANGE - FOUND IN MIXED LOT -

4530 - DARLEN - DWARF yellow - with scattered purple & black GRAINS - FOUND IN MIXED LOT. A POP CORN - BETTER THAN 4531 - BEST

4531 - CORN - DWARF RED - A CHICHA CORN - ALSO A POP CORN - ~~ALTHOUGH~~ APPARENTLY NOT USED IN DARLEN AS SUCH - POPs well -

4532 - CORN - LARGE GRAINED DARK ORANGE - THIS WAS BEING TROUD TO MAKE A SWEET PASTE - SEE DIARY & PHOTO -

4533 - CORN - DWARF - GRAINS PINK TO DARK RED - FOUND IN MIXED LOT - WITH NOT POP

4534 - CORN - LARGE EAR - LARGE GRAINS - purple, yellow & white - in mixed lot -

4535 - CORN - DWARF EAR - purple, white, red  
& TAN GRAINS - IN MIXED LOT -

4536 - CORN - SHORT STOUT EAR - purple, white,  
yellow & pink grains -

4537 - MEDIUM SIZED EAR - GRAINS ALL NEARLY  
BLACK - VERY UNIFORM RECUS - IN MIXED LOT.  
works NOT pop.

4538 - CORN - DWARF EARS - GRAINS DARK ORANGE, WITH  
SCATTERING GRAINS OF A VERY DARK RED -  
IN MIXED LOT. ALSO A pop CORN - BETTER THAN  
NO. 4531

4539 - DWARF EARS - GRAINS - purple, DARK PINK,  
& WHITE - IN MIXED LOT -

4540 - CORN - MEDIUM SIZED EARS - GRAINS MIXED  
RED & BLACK - MIXED IN BIN WITH 4528

4541 - CARRI'BEAN yellow -

4542 - CORN - LARGE EAR - ORANGE GRAINS - IN  
MIXED LOT -

4543 - CORN - LARGE EAR - ORANGE & BROWN GRAINS  
IN MIXED LOT -



4544 - CORN - LARGE EAR - ROUND ORANGE GRAIN.

4545 - CORN - SHORT STOUT EAR - ORANGE GRAIN.

4546 - CORN - DWARF EAR - LARGE CHOCOLATE - BROCON  
GRAINS - in mixed lot -

RIO PACORA - VCTY. PACORA - 0 m.  
FLD. COLL. DRABAM FAIRCHILD - 4/15/47

4547 - ONCIDIUM PANAMENSE SCHULT. - Fls. only -  
Pickle only - (1)

CERRO CAMPANA - 2400 FT. - FLD. COLL.  
DRABAM FAIRCHILD - 5/20/47 -

4548 - EPIDENDRUM ONCIDIODES - pickle only. (1)

PACIFIC COAST LOWLANDS <sup>(PACORA?)</sup> - 100 FT. FLD.  
COLL. DRABAM FAIRCHILD - 5/10/47 -

4549 - ONCIDIUM PSEUDO - BOLBS IDENTICAL WITH THOSE  
OF O. PANAMENSE - pickle only. (1)

CERRO CAMPANA - 2500 FT. FLD. COLL.  
DRABAM FAIRCHILD 5/1/47 -

4550 - LYCASTE - pickle only - (1)

RIO MATTA - ANONAO - 1200 FT. Fl. coll.  
GRAHAM FAIKENHO - 5/15/47

4551 - LYCASTE BREVISPISTA - PICKLE ONLY - (1)

HILLS SOUTH OF EL VALLE - 2000 FT.  
Fl. coll. GRAHAM FAIKENHO - 3/12/47

4552 - ONCIDIUM CONFUSUM? - PICKLE ONLY (1)

HEADWATERS RIO CHICO - DARIEN PROVINCE - 750 FT.  
6/12-13/47

4553 - ZAMIA - SHORT TRUNK - NEARLY BURIED IN  
THE GROUND - ABOVE GROUND PORTION ABOUT  
4" - IN HEAVY FOREST - (1)

4554 - ZAMIA - STERILE - TRUNK BRANCHED, 6 FT.  
TALL - SEE PHOTO - (1)

BALBOA, C.R. MAY 12, 1947

4555 - CASSIA SIAMENSIS - TREE - FL. YELLOW -  
30 FT. CULTIVATED - (2)

Verde Summit, C. 2. May 14, 1947

4556 - *Melastomae* - SHrub - 5 FT. Fls. white,  
with red stamens - common on cut over  
land - (8)

Cerro Campana - 2000 FT. Fls. Nambuá 5/26/47

4557 - *Stanhopea* - Sp. P. pale yellow, spotted rose  
purple - column broadly widened, termination  
in two horns exceeding the pollinia in  
length, color pure white, flared red-brown -  
lip creamy white, spotted purple - see  
pickle & photo - (1)

4558 - *Epidendrum* - aff. *E. fraaians* - Sp. P. creamy  
white, lip white, with purple stripes  
FRAGRANT - see pickle - (2)

Cerro Campana - 2500 FT. Fls. Nambuá  
6/20/47

4559 - *Orchid* - epiphytic - Fls. pure waxy white,  
inner lip waxed & spotted yellow - see  
plate, pickle & photo - FRAGRANT - (1)

Hills EAST OF PANAMA CITY - VCTY. W. PANAMA  
1000 FT. Flo. KAMBOA 6/3/47

4560 - BRASSIA - SEE PICKLE - PHOTO & SKETCH (1)  
2 - LEAVES

EL VALLE - LOMA DEL TIARE - 3000 FT. Flo.  
KAMBOA 5/26/47

4561 - EPIDENDRUM, AFF. E. NOCTURNUM - (1)

4562 - BRASSIA lanceana? ONE LEAF - SEE PHOTO,  
PICKLE & SKETCH - S.P.P. GREENISH (1)  
YELLOW, BLOTCHED RED-BROWN NEAR BASE,  
UP PALE YELLOW, SPOTTED RED-BROWN IN CENTRAL  
BASE PORTION - SUTURE ON CAULIS ORANGE -

EL VALLE - CERRO PASITA - 3400 FT. Flo.  
KAMBOA 5/28/47

4563 - PLATYDIA AFF. P. COCODRILOCEPS - (2)

CERRO TUTE', REGION WEST OF SANTA FE'  
VERAGUAS, - 2500 FT. Flo. KAMBOA 5/26/47

4564 - PESCATOREA CARINA - (2)

CARRO TUTE - REGION WEST OF SANTA FE VERACRUZ  
3000 FT. Flo. RAMBOA 6/20/47

CATABETUM SUAVE A.F.S.

4565 - ORCHID - EPiphytic - IDENTICAL IN VEGETATIVE  
APPEARANCE WITH NO. 4559 - Fls. PURE  
WAXY WHITE. INNER LIP SPOTTED PURPLE.  
STRAWBERRY SCENTED, LIKE A CHAMP BRIDE  
OF SOAP. SEE PHOTO & SKETCH - PICKLE. (1)

4566 - EPIDENDRUM DITERMIS - Fls. GREEN - (1)

VCTY. SANTA FE - VERACRUZ PROV. 1000 FT.  
Flo. RAMBOA 6/24/47

4567 - LYCASTE BREVISPATHA - ON TREES ALONG RIVER - (1)

RIO TEPEMUELLIN - HONDURAS - Flo. RAMBOA  
6/24/47

4568 - EPIDENDRUM COENANTUM - (1)

4569 - CYCLOCHES DIANA - (SEE PICKLE) (1)

SIRUATEPEQUE - HONDURAS - 5000 FT. ON  
PINES - FLD. NAMBOA 6/12/47

4570 - ZYLLAXILLARIA - Fls. yellow - (see pickle) (2)

CARRO UYUCA - VCTY. EL ZAMORANO - HONDURAS -  
5000 FT. FLD. NAMBOA 5/26/47

4571 - CATASEIUM - (CHECKED) <sup>MEXICO TO</sup>  
<sup>HONDURAS.</sup> S 19 P. pale green, dimly  
spotted red-brown - light green on outer  
surfaces, dark red-brown within -  
SEE PHOTO & PICKLE. (2)  
(Pickle deposited in the JAMES HARR. collection)

VCTY. NAMBOA - 5/26/47

4572 - FONOPSIS UTRICULARIODES - SEE PICKLE (1)  
Fls. lavender -

VCTY. Summit, C. 2. 6/25/47

4573 - STRYCHNOS PANAMENSIS <sup>SEM</sup> - WOODY LIMBS -  
Fls. white - FRAGRANT - (9)

Rio Chico, Vozg. Yaviza, DARIEN PROVINCE -  
6/9-11/1947

- 4574 - COSTUS - 9 FT. BRACTS RED - (1)
- 4575 - BROMELIAD - PITCAIRNIA, FORMING DENSE  
COLONIES ON STEEP BANKS ABOVE RIVER. (1)
- 4576 - TREE - 30 FT. FL. WHITE, RUBIACEAE - (10)
- 4577 - BIGNONIACEAE - WOODY LIANA - FL. WHITE -  
"TORTUDA" (6)
- 4578 - APEIBA ASPERA - TREE - 60 FT. FL.  
YELLOW - (6)
- 4579 - ARDISIA <sup>PALMATA</sup> - TREE - 30 FT. FL. VERY PALE  
PINK WITH YELLOW STAMENS - (6)
- 4580 - LAURACEAE - TREE - 75 FT. FL. WHITE -  
"SIRUA" (16)
- 4581 - LANTANA - SHRUB - 6 FT. FL. ORANGE - (2)
- 4582 - CHIBADIVUM - SHRUB - 6-8 FT. FL. WHITE -  
VERY COMMON - LEAVES REPORTED TO BE USED  
AS A FISH POISON. (4)
- 4583 - RONDELATIA? - SMALL TREE - 12 FT. FL. WHITE.  
IN HEAVY FOREST - (2)
- 4584 - SELAGINELLA - FORMING TALL TANKED COLONIES  
IN WET, SHADY PLACES - (2)
- 4585 - INGA <sup>CALANSIANA</sup> - TREE - 60 FT. FL. WHITE - (6)

- 4586 - TREE - 60 FT. REPORTED AS NOT BEING USED FOR RUBBER. (3)
- 4587 - WOODY HERB - 8 FT. WEAK NETTLE. "HUI-CHI-CHI" (1)
- 4588 - VITEX - <sup>MARONIANA</sup> TREE - 75 FT. ON LOW ROCKY RIDGES ABOVE RIVER. FL. BLUE - INFREQUENT. "PU-PU-CHIRU" (2)
- 4589 - FIGS - TREE - 65 FT. COMMON ALONG RIVER BANKS. (3)
- 4590 - AEROID - TERRESTRIAL, ON STEEP BANKS. SPATHE GREEN - SPADIX YELLOW - INFREQUENT. (1)
- 4591 - HURA CREPITANS - FL. RED - TREE 65 FT. COMMON - (1)

DARLEN PROVINCE

HEADWATERS RIO CHOCO - 750 FT. 6/12-13/47

- 4592 - UREA - SMALL TREE - 20 FT. IN WET, DARK FOREST. FRUITS WHITE. A MILD NETTLE. (2)
- 4593 - THEOBROMA - <sup>CHOCANA WOODSON</sup> TREE - 35 FT. FL. DARK RED. CULTIVATED BY CHOCO INDIANS - "CU-LU-HU" (3)
- 4594 - TUSSACIA - HERB - 20 INCHES - FL. ORANGE, STRIPED DARKER ORANGE - IN BANANA PLANTATIONS. (3)
- 4595 - TREE - 30 FT. FL. YELLOWISH-TAN. (2)
- 4596 - JACARANDA RHOMBIFOLIA - TREE - 45 FT. FREQUENT - (1)



- 4597 - RENEALMIA - 6 FT. BRACTS RED - (1)
- 4598 - CAPNARIS - BRACTS RED - SHAUB - 5 FT. (1)
- 4599 - METASTOMACEAE - SHAUB - 10 FT. FRUITS RED - (2)
- 4600 - SAPINDACEAE - WOODY LIANA - FRUITS RED - (3)
- 4601 - BONCHOSIA <sup>CORNIFOLIA</sup> - TREE - 30 FT - FRUITS YELLOW - (3)
- 4602 - METASTOMACEAE - SHAUB - 6 FT. FL. PINK - (2)
- 4603 - PIPER - WOODY HERB - 20 FT. COMMON - (3)
- 4604 - DIKENIACEAE? - TREE - 25 FT. FRUIT PURPLE -  
FL. PALE GREEN - (4)
- 4605 - BENTIANACEAE - HERB - IN BANANA PLANTATIONS  
FL. WHITE - (2)
- 4606 - LEGUMINAE - GIANT WOODY LIANA - BUDS BROWN -  
FL. GREYISH LAVENDER - (10)
- 4607 - SWARTZIA - TREE - 40 FT. FL. YELLOW - (2)
- 4608 - COUMAROUNA JAVANENSIS - TREE - 120 FT.  
FL. PINKISH LAVENDER - FREQUENT - (8)
- 4609 - LIPITYLHUM - EPiphytic - FRUIT RED - (1)
- 4610 - BROMELIAD - BRACTS RED - EDGED WHITE -  
FL. WHITE - SEE KODACHROME - FREQUENT - (1)
- 4611 - COPHA - ON ROCKY BANKS - IN SUN - FL.  
PURPLE - (4)
- 4612 - METASTOMACEAE - SHAUB - 3 FT. - ON WET,  
SHADY BANKS - FL. PINK - (3)
- 4613 - GRASS - COMMON ON TRAVEL BARS - (1)
- 4614 - DORSTENIA - ON WET BANKS - "PEKA-PEKA" (3)

*Trapa intercedina*

- 4615 - TREE - 40 FT. FL. GREEN - FAIRLY FREQUENT  
ALONG RIVER BANKS ON EDGES OF BASSINA PLANTATIONS. (1)
- 4616 - WEEDY HERB - COMMON ON GRAVEL BARS -  
FL. WHITE - (1)
- 4617 - TREE - 15 FT. FL. ORANGE - IN HEAVY FOREST - (2)
- 4618 - WEEDY HERB - COMMON ON GRAVEL BARS -  
FL. YELLOW - (2)
- 4619 - TINY HERB - ON WET, EXPOSED ROCKS - FL. LAVENDER. (1)
- 4620 - SALADINELLA, COMMON ON WET SANDS BANKS - (1)
- 4621 - RUBIACEAE - CREEPING HERB - COMMON ON WET  
FOREST FLOOR - FL. WHITE - (3)
- 4622 - RUBIACEAE - HERB - 24 INCHES - FL. WHITE.  
IN DARK FOREST - (1)
- 4623 - RUBIACEAE - TREE - 15 FT. FL. WHITE - (3)
- 4624 - BIGNONIACEAE - HERB - 18" - FL. PURPLE.  
UNDERSURFACES OF LEAVES PURPLE - (2)
- 4625 - MELIACEAE - TREE - 50 FT. FL. WHITE - (3)
- 4626 - CUCURBITACEAE - VINE - FL. YELLOW - (1)
- 4627 - OCIMUM - CULTIVATED BY CHOCO INDIANS -  
USED TO RUB ON BODY DURING DANCES - (3)
- 4628 - COMPOSITE - THICK WOODY LIANA - (4)
- 4629 - CALADIUM - VERY COMMON ON STEEP, SANDY  
BANKS - SPATHE WHITE - (2)
- 4630 - TREE - 25 FT. FL. WHITE, WITH YELLOW  
STAMENS - FAIRLY COMMON IN HEAVY FOREST - (3)

*MAYNA LONGICRISPIS*

- 4631 - TREE - TO 40 FT. FL. WHITE - FREQUENT -  
 "PU-LU-NA" QUARRARIBEA STENOCLADIA (5)
- 4632 - TREE - 75 FT. FL. WHITE - BARK SMOOTH. TRUNKS  
 ANNULAR OR SOMETIMES SQUARE, PARTICULARLY FOR  
 THE LOWER 6-8 FT. BRANCHES DROOPING, SLIPLIKE  
 REMINISCENT OF A CONIFER. VERY COMMON  
 IN HEAVY FOREST. MAY BE LUNN'S SQUARE  
 TREE - QUARRARIBEA DARIENENSIS WOODSON (8)
- 4633 - CUCURBITACEAE - VINE - BRACTS SCARLET - FL.  
 BRIGHT YELLOW - (5)
- 4634 - TREE - 40 FT. FRUIT YELLOW - (4)
- 4635 - ANNONACEAE - TREE - 12 FT. FL. GREEN - IN  
 DARK WET FOREST - (1)
- 4636 - MALVACEAE - TREE - 25 FT. FL. CREAM YELLOW -  
 PROBABLY IDENTICAL WITH NO. 4625 - (3)
- 4637 - CONVULVACEAE - VINE - FL. PURPLE - (1)
- 4638 - BORAGINACEAE - WOODY LIANA - FRUITS WHITE - (1)
- 4639 - LEGUME - GIANT WOODY, THORNY LIANA - FRUIT  
 ONLY 4 OLD DRIED FL. (2)
- 4640 - RUBIACEAE - TREE - 30 FT. FL. WHITE - (3)
- 4641 - CRYOSOPHILA - COMMON FOREST PALM - 8-12 LIVE  
 FRONDS - TRUNKS SPICY - 3-4" DIAM. "ESCOBA" (1)
- 4642 - LEGUME - TREE - 65 FT. FL. WHITE -  
 FREQUENT - LEUCARNA MULTICAPITULATA SCHODDY (4)
- 4643 - DIOSCOREA - FL. DARK PURPLE - (2)

PROTIUM

4644 - ~~Alaphatium~~ - TALL slender TREE IN HEAVY FOREST -

RED - pap. line BARK: "Hue-chi-chi"

(3)

4645 - <sup>Qualea cymulosa</sup> LEROUX - TREE - 100 FT. FL. ROSE PINK -

(14)

4646 - <sup>Acacia tanujfolia</sup> LEROUX - THICK WOODY LIMB, IN TREES 90

FT. TALL. TRUNK cylindrical, spines - 4-5"

Diam. FL. WHITE -

(5)

4647 - CONVOLVULACEAE - VINE - FL. Purple -

(2)

NOTES TO MAKE SENT WOODSON 7/4/47

CARRO TUTE - REGION WEST OF SANTA FE, VERMONT  
3000 FT. PRO. DAMBOA JUNE 24, 1947

4648 - ACROPERA - Sepals pale cream, minutely spotted

Red - petals rich dark red - column pale cream,

minutely spotted red. Lip orange, with dark

Red tip - see photos, plate & pickle -

(1)

4649 - Epilobium - Sp. P. stem - Lip white, with

lacinate crest - (see pickle)

(1)

V. City, BOQUETE - CONCESSION ROAD EAST OF RIO CALERA  
4500-6500 FT. July 23, 1942

- 4650 - SAURAUJA - SHRUB - 10 FT. FL. WHITE - (1)
- 4651 - LEGUMINOSAE - SHRUB - 10 FT. FL. RED - FREQUENT. (4)
- 4652 - COMPOSITE - STOUT HERB - 6 FT. FL. YELLOW. (1)
- 4653 - OLICACIUM - SHRUB - 12 FT. FL. WHITE - COMMON (3)
- 4654 - BORAGINACEAE - BRANCHY SHRUB - 8 FT. FL. WHITE - (3)
- 4655 - ARALIACEAE - TREE - 30 FT. ON STEEP BANKS - (4)
- 4656 - HELICONIA, FATH. PAROLOUS. BRACTS. SCARLET, FL. YELLOW -  
FREQUENT - ALSO NEAR LAVIDA & BALO MORA - (4)
- 4657 - LAURACEAE - TREE - 50 FT. - (4)
- 4658 - TREE - 60 FT. - (4)
- 4659 - LANTANA - BUSHY SHRUB - 8 FT. FL. PINK - (4)
- 4660 - LANTANA - FL. PINK & YELLOW - 3 FT. COMMON (1)
- 4661 - ASCLEPIAD - VINE. FL. GREENISH YELLOW - (6)
- 4662 - POLYDALACE - STOUT WOODY HERB - 5 FT. FL. BLUE  
& YELLOW. COMMON - (2)
- 4663 - SAURAUJA - TREE - 15 FT. FL. WHITE - (3)
- 4664 - TREE - 60 FT. FRUITS BRICKISH GREEN - (4)
- 4665 - MELASTOMACEAE - TREE - 30 FT. - VERY COMMON (2)
- 4666 - ROCKWARTIA - FL. YELLOW & SPOTS RED - FREQUENT (1)
- 4667 - TREE - 40 FT. FREQUENT - MYRTACEAE (3)
- 4668 - EPiphytic ORCHID - SPP. ORANGE - LIP CRAMMY WHITE (1)

Very. Finca Larida - Forested Valleys - (El Vedo) 5000 ft.

July 24, 1947 -

- 4669 - RUBIACEAE - Lax SHRUB - 6 FT. FRUITS PINK - (4)
- 4670 - TREE - 40 FT. FL. CREAMY WHITE - (6)
- 4671 - SAURAUIA - Small multiple-branched tree - 18 FT.  
FL. WHITE - FREQUENT - (4)
- 4672 - TREE - 120 FT. LAURACEAE - (5)
- 4673 - LOBELIACEAE - Stout Arching Herb - 5 FT. FL. ROSE  
PINK - FREQUENT - (1)
- 4674 - XANTHOSOMA Roseum - 6-8 FT. Very common along  
stream bed - forming continuous colonies - SPATHE  
WHITE - (1)
- 4675 - CARICA - 20 FT. FL. pale green - FRUITS RIPE,  
about 6" in length & 5" in diameter - (3)
- 4676 - TREE - 80 FT. (3)
- 4677 - Epiphytic Bromeliad - very common in tops of tall  
trees - (1)
- 4678 - TREE - 40 FT. FL. TAN - PROX <sup>NOT</sup> C. panamense - (4)
- 4679 - Clusadium - SHRUB - 10 FT. - common on sides of  
channels - FL. WHITE - (2)
- 4680 - Herb - 3 FT. FL. Salween Red - very common - (3)
- 4681 - RUBIACEAE - SHRUB - 10 FT. FL. Purple - Common - (3)
- 4682 - AEROID - Epiphytic - SPATHE GREEN - FRUITS ORANGE - (1)
- 4683 - Quercus - TREE - 95 FT. - (9)
- 4684 - MALVACEAE - TREE - 25 FT. FL. pale pink - (4)
- 4685 - COSTUS - 7 FT. BRACTS & FL. BRIGHT yellow - (4)

Rio Lindo - Honduras - Fls. RAMBORA AUGUST 14, 1947

4686 - MAXILLARIA - 8 FT. yellow - lip Red - BROWN -  
VERY COMMON ON LARGE TREES ALONG THE RIO  
LINDO -

(7)

5 miles

STONY PLAINS SOUTH OF BOPURTE - 3000 FT.

July 22, 1947 | REMOVE THE BYRSONIMA, CACTA, WALTHERIA  
9 CALCA PRUNIFOLIA 9 THERE WOULD BE LITTLE LEFT.

4687 - HERB - Fls. Pink - VERY COMMON - (5)

4688 - MICHASTOMACE - SHRUB - 6 FT. FRUITS BLUE - VERY COMMON (3)

4689 - RUBIACEAE - CREEPING HERB - ON SHADDED BANKS NEAR  
STREAMS - Fls. Blue - FRUITS BLUE - COMMON - (6)

4690 - HERB - Fls. purple - COMMON - COMPOSITE - (5)

4691 - RUBIACEAE - Fls. white - VERY COMMON - (4)

4692 - WALTHERIA - WOODY HERB - 2-3 FT. Fls. LAVENDER -  
VERY COMMON - (2)

4693 - BYRSONIMA - TREE - 35 FT. VERY COMMON ALONG SMALL  
STREAM COURSES - (3)

4694 - RUBIACEAE - HERB - Fls. white - COMMON - (4)

4695 - COSMIBUENA - TREE - 30 FT. Fls. white - ARCTIC MOUNTAIN - (4)

4696 - RUBIACEAE - SHRUB - 8 FT. Fls. white - FREQUENT ALONG  
SMALL STREAMS - (4)

4697 - DEBIERINACEAE - IN COLONIES ON SHADDED BANKS ALONG  
SMALL STREAMS - UPPER TWO PARTS RED  
LOWER 3 WHITE - COMMON - (4)

4698 - ACHIMENES - Fls. Blue - ON SHADDED BANKS ALONG  
SMALL STREAMS - (2)

4699 - SHRUB - 10 FT. Fls. cream yellow - VERY COMMON - (4)

4700 - TREE - 35 FT. FRUITS BLACK - FREQUENT ALONG  
SMALL STREAMS - (3)

4701 - RUSSELLIA - HERB - 5 FT. Fls. Red - FREQUENT - (2)

- 4702 - woody vine - FRUITS ORANGE - FREQUENT (2)
- 4703 - EPIDENDRUM CILIARE - FLG. WHITE - FREQUENT (2)
- 4704 - SLender SHrub - 10 FT. FLG. WHITE - (6)
- 4705 - Piper - <sup>STOUT</sup> HERB - 4-6 FT. STems RED - <sup>SPIKES WHITE -</sup> FREQUENT (4)
- 4706 - CAMARIDIVIA - STR. creamy white - leaf yellow -  
COMMON ALONG SMALL STREAMS - (9)
- 4707 - LORANTACEAE - PARASITIC SHRUB - 3-4 FT. <sup>IMMATURE FRUITS ORANGE</sup> <sup>MAIORS WHITE - COMMON</sup> (5)
- 4708 - ANDIRA INERMIS - TREE - 30 FT. <sup>Fruit</sup> FREQUENT (4)
- 4709 - TREE - 30 FT. ~~tree~~ COMMON ALONG SMALL STREAMS (3)
- 4710 - woody HERB - 24-36" - FLG. SALMON RED - <sup>VARY</sup> COMMON - (4)
- 4711 - Fern ally - COMMON ON ROCKY STREAMS <sup>ALSO IN Adobe</sup> <sup>WALLS - DAVID</sup> <sup>OR BRACK</sup> (2)
- 4712 - Liliaceae - FLG. yellow - FREQUENT <sup>ADOLE</sup> (5)
- 4713 - Miconia ARVENSA - TREE - 25 FT. <sup>VARY</sup> COMMON - (1)
- 4714 - TREE - 35 FT. FREQUENT (2)
- 4715 -

VCTY, FINCA LERIDA - 5500 FT. 7/21/47  
(FINA LERIDA)

- 4715 - EPIDENDRUM BRASSAVOLAE - FREQUENT - (1)

ELEVATED BANCHAS 1 mile south of BOPORE  
4000 FT. 7/20/47

- 4716 - COTON - TREE - 30 FT. <sup>FLG.</sup> FREQUENT - WHITE - (3)
- 4717 - TREE - 35 FT. FLG. PINK - FREQUENT - (6)
- 4718 - SHRUB - 12 FT. FLG. pale yellow - FREQUENT (4)
- 4719 - Small TREE - 20 FT. FLG. WHITE - FREQUENT - (5)



- 4720 - Composite - woody herb - 3 FT. Fls. white. (3)
- 4721 - Composite - Shrub - 9 FT. Fls. white. (4)
- 4722 - QUERCUS - TREE - 40 FT. <sup>COMMON ALONG TRAILS</sup> <sup>AND</sup> <sup>WIDE</sup> <sup>HOPE ROUNDS</sup> <sup>& STREAM</sup> <sup>VALLEYS</sup>. (3)
- 4723 - DENTARIA - Herb - Fls. green - <sup>ON STEEP BANKS</sup> <sup>IN PASTURES</sup>. (7)
- 4724 - LEGUMINACEAE - Fls. white, <sup>INNER COROLLA WITH DARK RED</sup> <sup>SPOTS & CENTRAL YELLOW STRIPE</sup>.  
 FORMING SMALL CLUSTERS IN SHADE - UNDER CUTS - (3)
- 4725 - JOERMA - S. & P. white - Lip white - central inner  
 throat yellow - rooky - with brown flecks - very  
 common. Thousands of plants on steep banks in  
 grass - All flower on same day. SEE PHOTO (2)
- 4726 - Stout Composite - 6-8 FT. <sup>Fls. yellow</sup> very common along road. (3)
- 4727 - Epidendrum Bootii - Fls. tan - very common. (2)
- 4728 - Shrub - 6 FT. Fls. yellowish green - frequent. (4)

Very. Finca Larida - 5000 FT. 7/21/47

- 4729 - MANTOLA SORORUM - Bushy tree - 40 FT. Fls. white. (3)
- 4730 - CITRARXylum MACRODENDRUM - TREE - 60 FT. Fls. white.  
 FRUITS ORANGE - "Palo Pabona" <sup>IN</sup> <sup>PASTURES</sup> very common  
 AND SECOND GROWTH - (6)

81 nos -

1277

FORESTED SOUTHERN

VERY HIGH LAKE - UPPER PART OF THE VELO  
ALONG COFFEE - 5000 FT. JULY 25, 1947 -

4731 - QUERCUS - TREE - 80 FT. (8)

4732 - <sup>COSIBA ROSEAE? TRUNK 2 1/2 FT. DIAM.</sup> LEUCOMIS - TREE - 65 FT. FLOES RED - COMMON (4)

4733 - ORCHID - FL. PINK - COMMON WEED IN COFFEE & ALONG ROADSIDES (14)

4734 - TREE - 60 FT. FL. WHITE - FREQUENT (6)

4735 - RUBIACEAE - SHRUB - 12 FT. FL. YELLOW - FREQUENT (3)

4736 - TREE - 75 FT. FREQUENT (7)

4737 - TREE - 65 FT. FL. YELLOWISH GREEN (17)

4738 - LEUCOMIS - <sup>LARGE</sup> VINE (3)

4739 - ARDISIA - SMALL TREE - 8 FT. (2)

4740 - BORAGINACEAE - LAX SHRUB - <sup>8 FT.</sup> FL. WHITE (1)

4741 - TREE - 45 FT. (5)

4742 - CORNUS - TREE - <sup>FUSCHIA??</sup> 45 FT. COMMON (4)

4743 - LOCKHARTIA - FL. YELLOW - <sup>2 - LOWER SLOPES & CREST</sup> SPOTTED LEAF - COMMON (3)

4744 - RUBIACEAE - <sup>BUSHY</sup> EPiphytic SHRUB - 6-8 FT. FL. PINK - <sup>FL. SALMON</sup> (12)

4745 - RUBIACEAE - SHRUB - 12 FT. FL. PALE PINK - <sup>COMMON</sup> FLOES WHITE (4)

4746 - RUBIACEAE - SHRUB - 12 FT. FL. PURPLE - COMMON (4)

4747 - MOODY HERB - 6 FT. FL. YELLOW (3)

4748 - GESNERIACEAE - SHRUB - 6 FT. FL. ORANGE (9)

4749 - LYCASTE - 3. P. PALE GREEN - PETALS WHITE - LIP WHITE (3)

4750 - EPIDENDRUM PRISMATOCARPUM - <sup>8 x 8. P. PALE YELLOW</sup> BRACED WOOD - (4)

Floral tube of lip lavender - purple - <sup>SLIGHT LATERAL</sup> lobes white -  
Cultivated by the missionaries for years - Said by  
them to be RARE - Flowered at LAKE - (4)



- 4769 - LORANTHACEAE - PARASITIC SHRUB - 18" - SPARSELY BRANCHED -  
FRUITS WHITE - LOUISIANA SARDINA - (2)
- 4770 - COMPOSITE - HERB - FLS. YELLOW - VERY COMMON ONE -  
LOUISIANA SARDINA - 9 CERRILLO COPPER - (4)
- 4771 - SHRUB - 8 FT. BRACETS RED - FLS. RED - TIPPED WHITE -  
COMMON ON SARDINA - (6)
- 4772 - BRONCHITIS - BRACETS & FOLIAGE GREEN - (1)
- 4773 - BALANOPHORACEAE - ROOT PARASITE - FRUITING COLONIES  
UNDER LEAVES - FRUITS DARK RED - FREQUENT - SEE PHOTO - (9)
- 4774 - BALANOPHORACEAE - ROOT PARASITE - (3)

43 nos.

215

WESTERN SLOPES OF CERRO NEGRUETA -  
BADO MERO - ROBITO TRAIL TO CONTINENTAL  
DIVIDE - 5000 - 7000 FT. JULY 27, 1947

- 4775 - MYRTACEAE - HUGE WOODY LIMBA - IN TOPS OF  
TREES - 120 FT. FLS. WHITE - (4)
- 4776 - CINCHONA - ? TREES 40' - 65 FT. - OFTEN FLOWERING  
FREELY AT 15 FT. FLS. PINK - FREQUENT - (14)
- 4777 - SOLANACEAE - WOODY LIMBA - FLS. YELLOW  
FLS. PURPLE (2)
- 4778 - FUSCICA ARBORESCENS - TREE - 30 FT. (2)
- 4779 - TREE - 30 FT. FLS. PINK YELLOW (2)
- 4780 - HERB - 6 FT. FLS. RED - CLIMBER - (5)

- 4781 - BURSERACEAE - TRAILING SHRUB - 10 FT. -  
 FLs. WHITE - (3)
- 4782 - SMILACINA - 6 FT. FL. WHITE - (2)
- 4783 - MAXILLARIA - FLs. yellow - (5)
- 4784 - LEGNERIACEAE - <sup>SHRUB</sup> HERB - 6 FT. FL. ORANGE - (3)
- 4785 - <sup>RUBIACEAE</sup> TREE - 25 FT. FL. DARK ROSE PINK - (9)
- 4786 - DRYMONIA - EPiphytic HERB - FL. yellow - (5)
- 4787 - Xylobium elongatum - FL. pale yellow - (1)
- 4788 - COLUMNEA - Epiphytic. FL. yellow. <sup>TRIKULAR RED</sup> BLOOMS on leaves. (3)
- 4789 - Epidendrum - FL. TAN - (5)
- 4790 - SOLANACEAE - TRAILSIDE HERB - FL. Blue - Common - (4)
- 4791 - <sup>POLEYALANACEAE</sup> HERB - 6 FT. FL. Blue & yellow - (1)
- 4792 - CENTROPOGON - WOODY HERB - 5 FT. FL. ORANGE - (1)
- 4793 - BONNAREA - VINE - FL. RED - <sup>SEEDS SCARLET</sup> - (5)
- 4794 - Epidendrum - S & P. GREEN - leaf white - (2)
- 4795 - Lycopodium - FORMING colonies on steep banks - (4)
- 4796 - STATIS - FL. PASTEL purple - <sup>FREQUENT in tops of</sup> large trees - (2)
- 4797 - SAURAVIA - TREE - 18 FT. <sup>MULTIPLE TRUNK</sup> FL. white - FREQUENT - (1)
- 4798 - COMPOSITE - HERB - 8 FT. FL. ROSEY yellow - <sup>FREQUENT</sup> - (3)
- 4799 - BUNNERA - TERRESTRIAL - <sup>in wet places above small</sup> STREAMS - FRUITS ORANGE - (1)

VCTY. BATO MONO - CHIQUI PROVINCE - 5000 FT.

AUGUST 17, 1947

4800 - CORN - WHITE - "CARTAO"

4801 - CORN - yellow -

ROBALO TRAIL - NORTHERN SLOPES OF CERRO HERPEDIA -  
6000 - 7000 FT. BOCAS DEL TORO PROVINCE - 8/6/47

4802 - ANNONACEAE - TREE - 100 FT. FB. GREEN - (8)  
IN TOPS OF GIANT TREES -

4803 - EPiphytic SHRUB - 12 FT. FB. pale greenish yellow - (3)  
MELASTOMACEAE - IN TOPS OF LARGE TREES

4804 - EPiphytic SHRUB - 6 FT. FB. PINK - (8)  
FRUITS RED.

4805 - CYCINACEAE - EPiphytic HERB - (1)  
COMMON -

4806 - HOFFMANNIA - RUBIACEAE - WOODY HERB - 5 FT. FB. yellow - (2)  
BRACTS DULC PURPLE

4807 - ERICACEAE - EPiphytic SHRUB - 3 FT. FB. lavender - (4)

4808 - ERICACEAE - EPiphytic BRANCHING SHRUB - 15 - 18 FT. (9)  
4 calyx cordas

PETIOLES VIVID PINK - ~~FB.~~ PURE WHITE -

BATO MONO - ROBALO TRAIL - 5000 - 7000 FT. 9/27/47

WESTERN SLOPES OF CERRO HERPEDIA - CHIQUI PROVINCE

4809 - BERONIA - STOUT HERB - 5 FT. FB. WHITE - (3)

4810 - LOBELIACEAE - TRAILSIDE SLENDER HERB - 3 FT. FB. purple - (1)

4811 - LOBELIACEAE - HERB - 4 FT. FB. RASIN purple - (1)  
SHARPER GREEN

4812 - POLYGONACEAE - WOODY VINE - FB. GREEN - (1)

- 4813 - Composite - Stout Herb - 6 FT. Fl. white - (4)
- 4814 - Herb - 12" <sup>CROCIFERAE</sup> Fl. white - common (1)
- 4815 - Thecophylla - Epiphytic - Bracts red - (1)
- 4816 - Fuschia - Shrub - 4 FT. Fl. red - (4)
- 4817 - Melastomaceae - Shrub - 4 FT. <sup>Rachis +</sup> Fl. dark red - (10)
- 4818 - Lobeliaceae - Epiphytic Herb - 2 FT. Fruit purple - vary conspicuous & frequent - (4)
- 4819 - Melastomaceae - Shrub - 6 FT. <sup>Rachis red - leaves &</sup> stems with red pubescence - Fl. blood red - (5)
- 4820 - Columna - Terrestrial on trackside banks or epiphytic - Fl. red - frequent - (6)
- 4821 - Composite - woody Herb - 10 FT. Fl. purple - frequent - (4)
- 4822 - Epiphytic Shrub - 6 FT. Fl. bright orange - (5)
- 4823 - Melastomaceae - Shrub - 6 FT. <sup>Rachis lavender -</sup> Fl. pink - (3)
- 4824 - Cyrtalis - <sup>woody</sup> Herb - 4 FT. <sup>Bracts reddish brown -</sup> Fl. purple - frequent - (6)
- 4825 - Urticaceae - Fleecy Herb - 3 FT. Fl. white - frequent - (5)
- 4826 - Ebenariaceae - Herb - 4 FT. <sup>calyx red -</sup> Fl. bright yellow - (4)
- 4827 - Composite - Shrub - 8 FT. Fl. white - (2)
- 4828 - Solanaceae - Tree - 12 FT. <sup>Fl. white -</sup> common - (2)
- 4829 - Rubiaceae - Shrub - 8 FT. <sup>3 FT.</sup> Fl. cream yellow - (7)
- 4830 - woody Herb - Trackside Herb - Bado moro - (1)
- 4831 - Tree - 30 FT. Fl. pale pink - frequent - (5)
- 4832 - Tree - 60 FT. Lauraceae - (5)
- 4833 - Columna - Epiphytic - <sup>pendulous stands 8 FT.</sup> Fl. red - (12)

YCTY. JUAN MORA - Rio Chamares - 8/20/47 collected  
 By Harold Tapido

4834 - BRONCHITIS - COMMON ON CRANIE TREES - FL. BLUE - (2)

BATO, MIMÓ - RABA LO TRAK - 5000 - 7000 FT. 8/27/47

4835 - RUBIACEAE - COMMON TRAILSIDE HERB - FL. WHITE - (3)

4836 - LOBELIACEAE - TRAILSIDE HERB - 2 FT. FL. RED. <sup>FRUIT</sup> WHITE - (4)

4837 - DIOSCOREA - VINE - FL. GREEN - (4)

4838 - LORANTACEAE - PARASITIC SHAUB - 8 FT. <sup>IN TOPS OF TREES</sup> 120 FT. TALL - (5)

4839 - TREE - 75 FT. FL. WHITE - (6)

4840 - EPIDENDRUM - S.P. TAN - BLOTCHED <sup>RED</sup> BROWN - LIP WHITE - (1)

4841 - ERICACEAE - EPYPHYTIC SHAUB - 5 FT. <sup>BRACTS PURPLE</sup> FL. PURPLE FREQUENT - (3)

4842 - TREE - 120 FT. NEAR CONTINENTAL DIVIDE - (5)

4843 - ZYGASCOMACEAE - TREE - 60 FT. 7000 FT. - (6)

4844 - TREE - 100 FT. 7000 FT. - (3)

4845 - ERICACEAE - EPYPHYTIC SHAUB - <sup>LONG SLIMY BRANCHES 6-8 FT.</sup> FL. PINK. <sup>COMMON IN TOPS OF TALL TREES</sup> - (9)

4846 - LAURACEAE - TREE - 120 FT. "SILVER" FL. TAN 7000 FT. - (10)

HANO DEL VOLCAN - 4500 FT. CHIRIQUI PROVINCE  
 AUGUST 3, 1947

4847 - CONVOLVULACEAE - FL. ROSE PINK. <sup>VERY</sup> COMMON - (6)

4848 - UACUENANTIA ? - FL. BLUE - EVOLVULUS ? - (5)

4849 - HABENARIA - FL. PURE WHITE - VERY COMMON - (6)

4850 - RUBIACEAE - FL. PALE PINK - COMMON - (3)

4851 - TREE - 30 FT. FL. PINK - <sup>ON ROAD TO BAMBIDON</sup> HAZY FOREST - (15)



- 4852 - LEUCOMIS - PROSTRATE HERB - FLG. ORANGE - (3)
- 4853 - SALVIA - 3 FT. FLG. BLUE - (6)
- 4854 - WOODY HERB - 3 FT. FLG. PINK - (5)
- 4855 - CROTON - SHRUB - 4-6 FT. FLG. WHITE - VERY COMMON - (5)
- 4856 - LAURACEAE - TREE - 20 FT. FLG. TAN - INFREQUENT IN DRY WASHES - (11)

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BADO MONO - ROCA'LO TRAIL - 7000 FT. 7/24/47 -

- 4857 - HABENARIA - EPiphytic - ST. DARK GREEN - <sup>SPOR</sup> WHITE, TIPPED GREEN - (SEE PICKLE) - (1)

NORTH FACE OF  
CARRO COPETE - AN EASTERN SPUR OF CHIRIQUI  
VOLCANO - 8000 FT. <sup>8500 FT.</sup> 7/29/47

- 4858 - PROSTRATE HERB - (5)
- 4859 - TREE - 40 FT. FLG. WHITE - FRAGRANT - (5)
- 4860 - ERICACEAE - LAX SHRUB - ARCHING CANES 10 FT. TERRESTRIAL, ON FOREST FLOOR - FLG. PINK, TIPPED WHITE - POSSIBLY FALLON FROM ABOVE - (6)

- 4861 - QUERCUS - STERILE - THIS IS THE DOMINANT TREE ABOVE ABOUT 7500 FT., FORMING NEARLY PURE STANDS ON THE NORTH FACE OF COPETE, AND NORTH & EASTERN SLOPES OF THE VOLCANO - (3)

- 4862 - RUBIACEAE - TRAILING HERB - FLG. PINK - FORMING DENSE COLONIES - (6)

- 4863 - BROMELIAD - LEAVES RICHLY MARBLED DARK RED - VERY COMMON & CONSPICUOUS ON OAKS FROM CASITA ALOJA TO SUMMIT - (1)

- 4864 - Composite - woody vine - Fls. yellow - (2)
- 4865 - Composite - Herb - 5 ft. Fls. white - (3)
- 4866 - SHRUB OR Small TREE - 12-15 ft. Fls. pink - (1)
- 4867 - TERRESTRIAL BRUSH - Fls. green - (4)
- 4868 - EPIDENDRUM - Epiphytic - Fls. dark brownish purple - (see pickle) (1)
- 4869 - TREE - 40 ft. Fls. white - (5)
- 4870 - ERICACEAE - SHRUB - 8 ft. in oak forest - Fls. white - (3)
- 4871 - PHYTOLACCA - very woody branching herb - 8 ft. Fls & fruits purple - infrequent - (2)
- 4872 - ZYGANTHACEAE - SHRUB - 8 ft. Fls. pink - common - (2) stems red - very
- 4873 - LEGUMINOSAE - Herb - terrestrial - 4 ft. Fls. yellow - very common in oak forest - (2)
- 4874 - ZYGANTHACEAE - TREE - 50 ft. Fls. white - (3) very. casina alta
- 4875 - Climbing FERN - in oak forest - (1)
- 4876 - Filmy FERN - TERRESTRIAL - FREQUENT in BAMBOO - OAK FOREST - (3)
- 4877 - BAMBOO - 30-40 ft. - clumps of 20-30 canes - very common in oak forest. Also in areas of Yoro - Province - (4)

SUMMIT OF CARRO COPETE & <sup>SOUTH</sup> WEST FACE - 9000 FT.

7/29/47

- 4878 - IRIDACEAE - XERIS - Fls. blue - very common - (4)
- 4879 - SMILACINA paniculata - Fls. white - (3)
- 4880 - TREE - 20 ft. Fls. yellow - (4)

- 4881 - Fern - FORMING stout plants - infrequent - (1)
- 4882 - ERICACEAE - SHRUB - 6 FT. FL. PINK - (4)
- 4883 - LAURACEAE? - TREE - 10 FT. FL. TAN - (5)
- 4884 - COMPOSITE - BUSHY HERB - FL. PINKISH LAVENDER.  
Very common on BARREN SW FACE - (6)
- 4885 - SHRUB - 5 FT. FL. RED - FREQUENT - (6)
- 4886 - CASTILLEJA - BRACTS RED - VERY COMMON - (3)
- 4887 - SALVIA? - HERB - FL. BLUE - VERY COMMON - (2)
- 4888 - ERICACEAE - TREE - 30 FT. FL. PALE PINK - (3)
- 4889 - LYCOPODIUM - ON BANKS ON BARREN SW FACE - (3)
- 4890 - LYCOPODIUM - IN HEAVY SHADE - UNDER OAKS - (3)
- 4891 - ERICACEAE - SHRUB - 10 FT. FL. RED - TYPICAL  
WHITE - COMMON - (6)
- 4892 - TREE - 12 FT. <sup>VERY MANY</sup> FL. PINK - FRUITS RED - FREQUENT - (6)
- 4893 - ERICACEAE - SHRUB - 8 FT. FL. RED - TYPICAL  
WHITE - FREQUENT - (7)
- 4894 - ERICACEAE - TREE - 8 FT. FL. WHITE - (3)
- 4895 - ALNUS - TREE - 40 FT. - VERY COMMON ON  
NORTH EASTERN FLANKS OF CHIRIQUI VOLCANO - FORMING  
ADVANCE GROVES ABOVE OAKS & INTERMIXED WITH  
Them, COMPARISONS ABOUT 20% OF THE FOREST  
STAND IN THE E - 10000 FT. <sup>PLANTING INTO MOUNTAINS</sup> ZONE - ERICACEAE. (5)
- 4896 - STYRACIUM - HERB - FL. WHITE - (2)
- 4897 - FUSCHIA - SHRUB - 8 FT. FL. RED - (3)
- 4898 - PARNETIA - FL. WHITE - VERY COMMON - (3)

Polemoniaceae

4899 - SHAUB: 6 FT. FL. Blue & yellow. (2)

4900 - Herb - <sup>Halimolobos sp. Ranunculaceae?</sup> - FL. GREEN - Forming colonies in

SHADE NEAR SUMMIT - COMMON (8)

4901 - ERICACEAE - SHAUB - 6 FT. FL. RED - TIPPED  
WHITE - COMMON - (3)

4902 - MIRRILLIENORUM - UMBELLIFERAE - WOODY HERB - 5-8  
FT. FL. WHITE - FREQUENT AS SMALL PLANTS ON  
BARREN SURFACE OF COFEE - MOUNTAINS ABOUT 5 FT.  
ALSO IN DENSE OAK FOREST ON NORTH SLOPE, WHERE  
THE PLANTS AVERAGED 6-8 FT., BUT EVIDENTLY  
FLOWER AT A LATER SEASON. (3)

4903 - EPIDENDRUM - FL. TAN - IN SMALL TREES ON SUMMIT. (2)

4904 - EPIDENDRUM - FL. TAN - (SEE PICKLE) (1)

4905 - ODONTODIUM - FL. WHITE, WITH ORANGE ORANGE &  
SPOT ON LABELUM. (2)

4906 - BEECHERIANA - EPITHEIC HERB - 5 FT. FL.

YELLOW - IN OAK FOREST - SAME AS 4873. (4)

4907 - MELASTOMACEAE - TREE - 35 FT. FL. WHITE -

FREQUENT IN OAK FOREST. (3)

VERY, BADO WONO - 6000 FT. 7/27/47

4908 - PHASMOGLOIDUM CAUDATUM - (2)

Bocas del Toro Province - Robalo trail - Northern  
Slopes of Cerro Horqueta, 6000-7000 ft.  
August 5-7 - 1947

- 4909 - Calceolaria - Fls. yellow - (8)
- 4910 - ~~Elleboraceae~~ Epiphytic - 3 ft. Sepals  
brilliant purple - Lip <sup>see</sup> purple white - ~~nonchance~~ (5)
- 4911 - <sup>Lobeliaceae</sup> Lax Herb - 4 ft. Fls. brilliant pink - <sup>tipped</sup> white - (11)
- 4912 - Epiphytic Fern - (2)
- 4913 - Urticaceae - Herb - 6 ft. Fls. white - (5)
- 4914 - Urticaceae - Herb - 3 ft. (7)
- 4915 - Urticaceae - 1 1/2 ft. Fls. white - (1)
- 4916 - Solanaceae - Herb - 6 ft. Fls. pale green - (4)
- 4917 - <sup>Melastomaceae??</sup> Herb - 2 ft. Fls. white - common - (1)
- 4918 - Ericaceae - Epiphytic shrub - 8 ft.  
Fls. scarlet - (1)
- 4919 - Boraginaceae - shrub - 8 ft. <sup>Fls. green -</sup> fruits white - (3)
- 4920 - Bignoniaceae - Fls. yellow spotted red brown - (1)
- 4921 - Rubiaceae - small tree - 8 ft. fruits blue -  
leaves brilliant yellow - (5)
- 4922 - Bonarea - Fls. red - common vine - (2)
- 4923 - Centropogon - lax woody herb - 4 ft. Fls.  
scarlet, tipped yellow - common - (7)
- 4924 - Bignoniaceae - Herb - 3 ft. - ~~leaves~~ <sup>leaves</sup> thick or  
epiphytic - Fls. yellow - common - (5)
- 4925 - Araliaceae - ~~epiphytic~~ shrub - 12 ft.  
Fls. white - (4)

- 4926 - Composite - vine - in tops of large trees -  
Fls. white - (4)
- 4927 - Composite - Epiphytic, Aromatic shrub - 10 ft.  
Fls. pink - FRAGRANT - FREQUENT & CONSPICUOUS - (6)
- 4928 - PASSIFLORA - Fls. pale green with purple markings - (8)
- 4929 - RUBIACEAE - SHRUB - 8 FT. Fls. lavender - (7)
- 4930 - NASTURTIUM - vine - Fls. yellow with <sup>scarlet</sup> spur - (5)
- 4931 - SMILACINA - Fls. white - 9 ft. <sup>common</sup> SEE PHOTO - (2)
- 4932 - Epiphytic shrub - 6 ft. <sup>BENTIANACEAE?</sup> Fls. white - <sup>IN TOPS OF KUNE TREES -</sup> (3)
- 4933 - TOMORROR? - vine - Fls. green - FREQUENT - (5)
- 4934 - ERICACEAE - Epiphytic shrub - 10 ft. BRANTS PARK  
pink - Fls. very pale pink - (4)
- 4935 - columnea - Epiphytic - Fls. salmon red - <sup>FREQUENT</sup> (2)
- 4936 - CANTROPORON - HERB - 6 ft. Fls. pink. <sup>very common</sup> SEE KUNENBERG (2)
- 4937 - ACANTHACEAE - HERB - 6 ft. Fls. orange - (5)
- 4938 - BEGONIA - 4 ft. Fls. white - (4)
- 4940 - ACANTHACEAE - HERB - 6 ft. Fls. salmon red - (1)
- 4941 - SHRUB - 8 ft. Fls. pale yellow - (8)
- 4942 - METASTOMACEAE - TREE - 18 ft. Fls. white - (4)
- 4943 - BESNERIACEAE - HERB - 3 ft. Fls. yellow <sup>common</sup> - (9)
- 4944 - BESNERIACEAE - HERB - 3 ft. Fls. pink - common - (7)
- 4945 - JOSSIAEA - HERB - 8 ft. Fls. yellow - (4)
- 4946 - <sup>BENTIANACEAE</sup> WOODY HERB - 10 ft. <sup>SYMBOLANTHUS</sup> Fls. bright pink  
FREQUENT, very showy - (11)
- 4947 - LOBELIACEAE - WOODY BRANCHED HERB - 5 ft.  
Fls. orange <sup>red</sup> FREQUENT - (4)

- 4948 - *Columnea* - Epiphytic - in tops of *Alseodaphne* trees -  
 Fls. <sup>Blood</sup> Red - very conspicuous - (see *Koehniana*) (3)
- 4949 - *Statice* - Stylis mucron - petals dark orange -  
 lip mucron - (4)
- 4950 - *Piper* - Herb - 3 ft. (4)
- 4951 - *Lobeliaceae* - Herb - 3 ft. Fls. green - (2)
- 4952 - *Lobeliaceae* - Herb - 3 ft. Fls. Dk. brownish  
 purple - frequent - (4)
- 4953 - *Solanaceae* - Herb - 4 ft. Fls. white - (5)
- 4954 - *Compositae* - Tree - 40 ft. Fls. lavender - frequent - (4)
- 4955 - *Solanaceae* - Herb - 8 ft. Fls. greenish white - (4)
- 4956 - <sup>CLONIA</sup> Herb - 6 ft. Fls. salmon red - (3)
- 4957 - *Solanaceae* - Herb - 6 ft. Fls. yellow - (2)
- 4958 - *Sedum* - (4)
- 4959 - *Cucurbit*? - Vine - Fls. green - (3)
- 4960 - *Bromelia* - Epiphytic - in tops of tall trees -  
 Bracts red - common - (1)
- 4961 - *Besleriaceae* - Shrub - 8 ft. Fls. orange - frequent - (3)
- 4962 - *Hoffmannia*? - Herb - 8 ft. Fls. yellow - (2)
- 4963 - Woody Herb - 6 ft. Fls. white - minute - (3)
- 4964 - *Renealmia* - Persistent calyxes, primary yellow - (2)
- 4965 - *Fuchsia* - Woody Herb - 3 ft. Fls. red - (5)
- 4966 - *Compositae* - Tree - 40 ft. Fls. yellow - (6)
- 4967 - *Melastomaceae* - Tree - 40 ft. Fls. blood  
 red - fairly frequent - Stamens pure white - (8)

- 4968 - SAURAVIA - TREE - 8 FT. FL. WHITE - (5)
- 4969 - HERB - FL. GREEN - <sup>MONA</sup> COMMON IN WET PLACES <sup>TRAIL</sup> - (6)
- 4970 - CHIBADIA - SHRUB - 8 FT. FL. WHITE - (6)
- 4971 - COLUMBA - EPiphytic - FL. SCARLET - (1)
- 4972 - SPREADING TREE - 40 FT. <sup>SEEDS FREQUENT ABOVE</sup> TRAILS - (4)
- 4973 - HELICONIA LANKESTERI - 6-8 FT. <sup>BRACTS LAPUR RED</sup> VERY COMMON -  
THIS WAS THE ONLY HELICONIA SEEN ON THE <sup>EDGE</sup> -
- 4974 - ERICACEAE - EPiphytic SHRUB - 8 FT. <sup>BRACTS</sup> PURPLE -  
FL. PURPLE - FREQUENT - (4)
- 4975 - GESNERIACE - HERB - 4 FT. <sup>CALYX BLOOD RED - COMMON</sup> COROLLA ROYAL ORANGE - (7)
- 4976 - GESNERIACE - HERB - 3-4 FT. <sup>BRACT YELLOW</sup> CALYX & COROLLA VERY COMMON - (8)
- 4977 - FERN - (2)
- 4978 - HERB - 3 FT. <sup>MENTHACEAE?</sup> - (2)
- 4979 - METASTOMA - SHRUB - 3 FT. FL. BLOOD RED - (1)
- 4980 - BERTONIA - BUSHY HERB - 2 FT. <sup>MONA</sup> FL. WHITE - <sup>STREAKS</sup> - (7)
- 4981 - GESNERIACE - HERB - 3 FT. <sup>CALYX RED</sup> COROLLA ORANGE - (5)
- 4982 - BRONCHIA - EPiphytic - FL. <sup>4 BRACTS</sup> PALE GREEN - (1)
- 4983 - OLUSIA? BUSHY EPiphytic SHRUB -  
30 FT. FL. WHITE - <sup>IN TOPS OF TREES</sup> 120 FT. - (11)
- 4984 - RUBIACEAE - EPiphytic SHRUB - 18" FL. PINK  
PINK OR WHITE - IN TOPS OF <sup>FRUIT</sup> TREES - (12)
- 4985 - GESNERIACEAE - HERB - 5 FT. FL. ORANGE - (5)
- 4986 - ERICACEAE - EPiphytic SHRUB - 5-6 FT.  
FL. PINK - IN TOPS OF <sup>FRUIT</sup> TREES - (6)
- 4987 - <sup>MENTHACEAE?</sup> GESNERIACE - HERB - 2 FT. FL. PURE WHITE - (3)



- 4988 - MIMASODACEAE - TREE - 40 FT. FL. PURP  
 WHITE - FREQUENT - (SEE KODACHROME) (3)
- 4989 - CAMPANULACEAE - HERB - 3 FT. BRACTS ROYAL PURPLE  
 FL. PURPLE - FREQUENT - (3)
- 4990 - MIMASODACEAE - HOPE BUSHY EPiphytic SHRUB -  
 30 FT. IN TOPS OF GIANT TREES - (4)
- 4991 - TREE - 60 FT. ARDISIA? (4)
- 4992 - MIMASODACEAE - TREE - 35 FT. FL. PINK  
 PINK - (3)
- 4993 - BIGNONIACEAE - HERB - 4 FT. UNDEVELOPED  
 LEAVES PURPLE - FREQUENT - (3)
- 4994 - LOBELIACEAE - HERB - 3 FT. FL. PURPLE - (3)
- 4995 - SOLANACEAE - EPiphytic HERB - STEMS  
 HABIT OF A COLUMNNA  
 PANDULOUS - FL. PINK - FREQUENT - (7)
- 4996 - BIGNONIACEAE - EPiphytic AERIAL SHRUB -  
 8 FT. FL. PINK - ON SIDES OF TREES  
 IN HEAVY FOREST - (15)
- 4997 - TRAILING HERB - FL. WHITE - FREQUENT -
- 4998 - PHYTOLOGA - HERB - 6 FT. VERY COMMON - (2)
- 4999 - COMPOSITE - WOODY HERB - 10 FT. FL. BRIGHT  
 YELLOW - VERY FRAGRANT - (SEE KODACHROME) (2)
- 5000 - SMILACINA - TERRESTRIAL OR EPiphytic -  
 8-10 FT. FL. WHITE - (SEE KODACHROME) (1)
- 5001 - MIMASODACEAE - EPiphytic SHRUB - 6 FT. (1)
- 5002 - MIMASODACEAE - TRAILING HERB - COMMON IN  
 WET PLACES ALONG TRAILS - (5)

- 5003 - *Ardisia* - SHrub - UNARMED - 20 - 40 FT.  
 BEAKED - 8 - 10 LINE FLOWS - 1 - 10 - 3 IN ARCHITECTURAL  
 INFLORESCENCES - VERY COMMON - TOGETHER WITH THE  
*Stue* *Canoe* collected at *Carle* *Quinn* *Tran*  
 UP 95% OF THE *PLANT* *POPULATION*, AND A VERY  
 CONSPICUOUS ELEMENT IN THE *VEGETATION*. (1)
- 5004 - *Funaria* - FAIRLY FREQUENT IN WET PLACES ALONG SMALL  
 STREAMS - 10 FT. SOME LEAVES ARE DOUBLE THE SIZE  
 OF THE PRESENT SPECIMEN - (1)
- 5005 - *Commelinaceae* - HERB - 2 FT. FL. PINKISH LAVENDER.  
 COMMON (4)
- 5006 - *Melastomaceae* - TREE - 30 FT. FL. WHITE - (6)
- 5007 - *Compositae* - HERB - 5 FT. FL. WHITE - (1)
- 5008 - *Besleria* sp. - HERB - PARASITIC OR EPYPHYTIC  
 2 - 3 FT. FL. GREEN SPOTS REDDISH BROWN <sup>Frequent</sup> (1)
- 5009 - *Bocconia* - WOODY HERB - 10 FT. COMMON - <sup>VERY</sup> (1)
- 5010 - *Compositae* - HERB - 4 FT. FL. LAVENDER - (2)
- 5011 - *Stambucus*? - TREE - 50 FT. <sup>in heavy</sup> <sup>climatic</sup>  
<sup>rain forest</sup> (5)
- 5012 - *Piper* - STOUT HERB - 4 FT. COMMON - <sup>in tops of large</sup> (2)
- 5013 - *Epidendrum* - FL. PINK GREEN - AKEIN <sup>in</sup> <sup>trees</sup> - (1)
- 5014 - TREE - 50 FT. FL. WHITE - <sup>Besleriaceae</sup> (3)
- 5015 - *Solanoflora* - WOODY HERB - 10 FT. FL. ORANGE -  
 VERY COMMON AND CONSPICUOUS - (4)

CARRO TALARÁ CHORONA. VOTY, SUALACA - CHIRIQUI  
 PROVINCE - 1000 FT. AUGUST 1, 1947

- 5016 - Bromeliad - Common on SHEER ROCK FACES -  
 Fls. SALMON RED - (8)
- 5017 - RUBIACEAE - TREE - 15 FT. Fls. WHITE - (8)
- 5018 - TREE - 20 FT. (4)
- 5019 - TREE - 50 FT. *Machaonia?* (4)
- 5020 - COCCOLOBA - TREE - 40 FT. Fls. WHITE - (9)
- 5021 - Heliconia - 12 FT. BRACTS RED - Fls. GREEN -  
 (SEE KODACHROMA) <sup>WHY TIPS ORANGE</sup>  
 INFLORESCENCES FREQUENT <sup>ON FOREST</sup> 8' HIGH - (3)
- 5022 - Apocynaceae - TREE - 85 FT. Fls. yellow -  
 STAMENODINIA - (16)
- 5023 - BACTRIS - STOLONIFEROUS - AVERAGE 6 CANES  
 10 FT. FREQUENT - IN HEAVY FOREST.

PASTURES & RIVER BANKS EAST OF  
 VOTY, SUALACA - CHIRIQUI PROVINCE - 500 FT.  
 July 31, 1947

- 5024 - TREE - 30 FT. IN FOREST ALONG RIVER - (4)
- 5025 - LORANTHACEAE - PARASITIC SHRUB - 2 FT. (3)
- 5026 - PICOUS - STRANGLER TREE - 45 FT. <sup>FREQUENT</sup> IN PASTURES (3)
- 5027 - EUBENIA - SHRUB - 8 FT. Fls. WHITE - (4)
- 5028 - WOODY VINCE - FRUITS RED - (5)
- 5029 - COMMELINACEAE - HERB - 4 FT. Fls. BLUE - (3)
- 5030 - TREE - 30 FT. (4)

very, of SUATAKA mostly in PASTURES of HIGH  
 GRASS, WITH BELTS OF WHAT LOOKS LIKE ORIGINAL FOREST  
 CONTINUED mostly TO THE STREAM BANKS. WEST OF TOWN  
 THERE IS AN IRREGULAR STRIP OF SHORT GRASS LAHO  
 RUNNING ROUGHLY EAST & WEST - BOUNDED BY TYPICAL  
 DRYLAND SCRUB WOODS -

- 5031 - BIGNONIACEAE - LIANA - FLs. PURPLE - (3)
- 5032 - CORDIA heterophylla - TREE 50 FT. (2)
- 5033 - CHAYBOPHYLLUM - TREE - 65 FT. COMMON (3)  
VARBUACEAE - CORNUTIA
- 5034 - STRAWB - 12 FT. FLs. BLUE - (1)
- 5035 - DILLENIACEAE - WOODY VINE - FRUITS ORANGE - (2)  
VERY COMMON IN HOLES
- 5036 - TREE - 30 FT. FRUITS ORANGE - (4)  
VERY COMMON
- 5037 - WOODY HERB - 4 FT. FLs. & FRUITS PURPLE - (2)
- 5038 - LAURACEAE - TREE - 40 FT. (2)
- 5039 - MARANTACEAE - FLs. YELLOW - COMMON - (1)
- 5040 - ARISTOLOCHIA - STRAWB - 3 FT. PETALS TAN  
BRIGHT  
 INNER COROLLA YELLOW - OUTER COROLLA PALE CREAM - (2)
- 5041 - EPiphytic CACTUS - FLs. WHITE - (2)

CHIRIQUI PROVINCE -

LAHO WEST OF SUATAKA - 500 FT. 8/2/47

- 5042 - FRUIT - FLs. PURE WHITE - (1)
- 5043 - TURNERACEAE - ? - FLs. YELLOW - COMMON (4)  
COMMON ALONG
- 5044 - LEANER - PROSTRATE HERB - FLs. ORANGE - ROAD (5)
- 5045 - HERB - 3 FT. FLs. WHITE - COMMON (3)
- 5046 - WEED - FLs. WHITE - COMMON (2)
- 5047 - RUBIACEAE - PROSTRATE HERB - FLs. WHITE - (6)  
COMMON
- 5048 - PASSIFLORA - (3)
- 5049 - ARALIACEAE - TREE - 40 FT. FLs. GREENISH WHITE - (4)
- 5050 - LEANER - PROSTRATE HERB - FLs. YELLOW - COMMON (4)
- 5051 - DIOSCOREA - VINE - FLs. TAN - (2)

5052 - Polygalae - Common Herb - Fls. pink - (6)

5053 - Rubiaceae - Herb - Fls. white - Common - (3)

5054

Cerro Tabora, Morona - V. de, Tumbuca -  
Chiriqui Province - 1000 m. 8/1/47

5054 - SHrub OR woody Herb - 8 ft. Fls. Tan -  
very common - Polygalae - (3)

5055 - Rubiaceae - SHrub - 12 ft. Fls. Orange - (5)

5056 - Solanaceae - VINE - FRUIT RED - (2)

5057 - Rubiaceae <sup>Hamelia</sup> - TREE - 12 ft. <sup>Fls. Red</sup> Common - (1)

5058 - <sup>Bushy</sup> TREE - 10 ft. - (4)

5059 - TREE - 65 ft. - (6)

5060 - Piper - TREE - 20 ft. very common - (4)

5061 - Legume - TREE - 25 ft. very common - (1)

5062 - Vitaceae - Fls. Green - Common - (3)

5063 - Urticaceae - TREE - 12 ft. Fruit Orange - (2)

5064 - Malvaceae - SHrub - 8 ft. Fls. pink - Common - (3)

5065 - Heliconia - Tall, pendulous - Bracts Red -  
tips yellow - Frequent - (1)

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NOTES TO Herb. Inst. Woodson

SEPT. 15, 1947 -

Loma del Tigre - Region North of El Valle de Antón -  
3000 FT. Flo. NAMBOA 7/6/47

5066 - *Stelis Allenii* L. Wms. - Sepals tinged with purple  
on outer surfaces - greenish on inner surfaces -  
petals & lip with purple - (SEE PICKLE) (3)

5067 - *Lycaste Dowiana* - Endres & Rehb. F. (1)

Rio Tegucigalpa - Honduras - Flo. NAMBOA 6/30/47

Aromatic Lincol.

5068 - *Lycaste ~~glauca~~ ~~linearis~~* F. C. - pale orange  
throughout - (SEE PICKLE) (1)

Very. ESTRELLA valley - COSTA RICA  
Flo. NAMBOA 9/3/47

5069 - *Oncidium Kramerianum* Rehb. F. (1)

Rio ZARATE AMORADO - REGION NORTH OF EL VALLE  
DE ANTON - 1500 FT. Flo. NAMBOA 9/3/47

5070 - *Stanhopea Martinii* Lodd. ex Lindl. (SEE  
DRAWING: Mayo & Pickle.) (2)

CARRO CAMPANA - Rocky outcrops - 2500 FT. Flo.  
NAMBOA 8/28/47 -

5071 - *Peristeria flata* Hook - (1)

EL VALLE - SOUTH & EAST HILLS - 2000 FT.

FTD. SAMBOA 9/2/47 -

5072. *PERISTERIA STATA* HOOK. ST. P. WHITE,  
COLUMN WHITE, NUBS OF COLUMN WHITE,  
SPINDLE PURPLE, LIP WHITE, SPUR PURPLE.  
FRAGRANT. (1)

RIO LINDO, HONDURAS, V. CAMP. Peña Blanca

FTD. SAMBOA 8/23/47

5073. *EPiphytic*. FL. PINK - COMMON - (2)

Cerro Campana - 1000 FT. FTD. SAMBOA 8/23/47

Collected by Dorothy Allan

5074. *Scaphyloides* sp. FL. WHITE - (1)

Hills South of Managua, NICARAGUA - 1000 FT.

FTD. SAMBOA 8/28/47

5075. *ONCIDIUM*. ST. P. yellow - Heavily BARRED BROWN -  
WITH yellow tips. FRONTS & lateral lobes  
of lip clear yellow - central portion below  
chest brown - chest white, spotted brown -  
anther cap yellow - (see picture) (2)

Rio Chiriqui - vety. Juan Reina - 8000 FT. Flo.  
AMBOA 8/24/47 - collected by Dorothy Allen

5076. *EPIDENDRUM* - Fls. green. - (2)

Cerro Campana - 2000 FT. Flo. AMBOA - 8/26/47  
collected by Dorothy Allen -

5077. *TRICHOCENTRUM* - STIP. pale green. lip white, with  
base reddish brown spot. wings of column  
white, with central red blotch. anthers of tube  
white, woody. - (1)

Cerro Campana - Rock face - 2500 FT. Flo.  
AMBOA 8/18/47 -

*maxillaria planicola*  
5078. *CHRYSIDIUM* - Fls. white, inner lip pale  
yellow - (see Gleason & Prain) - (2)

Rio Lindo, Honduras - vety. Peña Blanca - Flo.  
AMBOA 8/20/47

5079. *MAXILLARIA* - (1)

El Valle Chiquito - 1800 FT. Flo. AMBOA 7/31/47

5080. *CYCNOCLIA DIANA* - (1)



This series shows about 700 complete  
range of variation in this species in America.

VCMY, FINCA LA RUDA - EL VELO - 5000 FT.  
Fls. in the collection of MR. R. K. MORRIS  
7/9/47 see also # 4783

5081 - MAXILLARIA - FR. ORANGE - (1)

EL VALLE DE ANTON - 1800 FT. Fls. in the  
collection of MR. HARRY DANN 7/30/47

5082 - EPIDENDRUM DIFFORME Jacq. (SEE PICKLE) (1)

VCMY, FINCA LA RUDA - 5000 FT. Fls. in  
the collection of MR. R. K. MORRIS - 7/31/47

5083 - EPIDENDRUM DIFFORME - Jacq. (SEE PICKLE) (1)

5084 - EPIDENDRUM DIFFORME - Jacq. (SEE PICKLE) (1)

EL VALLE DE ANTON - 1800 FT. Fls. NUMBER  
8/2/47

5085 - EPIDENDRUM DIFFORME Jacq. (SEE PICKLE) (1)

VCMY, BEL000 - 10 FT. Fls. NUMBER 7/22/47  
collected by Dorothy O. Ayler

5086 - BRASSAVOLA NODOSA Lindl. (1)

Cerro Campana - 2000 ft. Flo. TAMBOA, 7/22/47

Collected by Dorothy C. Slay - <sup>INNER</sup> (see notes & photo)

5087. *Canariidium*. Fls white; leaf pale yellow - ①

Rio Chico - v. cdy. YAVIZA - DARICAN PROVINCE -  
25 FT. JUNE 9-11, 1947 -

5088 - *Leuca* - TREE - 50 FT. Fls. white - ③

5089 - *Leuca* - TREE - 50 FT. common - ③

5090 - *Rubiacae* - SHRUB - 7 FT. Fls. <sup>white</sup> common - ④

5091 - *WARSEWICZIA COCCINEA* - TREE - 20 FT.  
BRACTS RED - ⑦

5092 - *ORONIA* - SHRUB - 8 FT. Fls. white - common - ③

5093 - *CISSUS* - VINE - Fls. greenish white. <sup>BRACTS ORANGE</sup> common - ③

5094 - *APHELANTHA* - SHRUB - 8 FT. Fls. yellow - ①

5095 - *CUCURBIT* - VINE - common - ③

Handwritten Rio Chico, DARICAN PROVINCE -  
6/12-13/47 -

5096 - <sup>STEM 10</sup> Composite - TREE - 10-30 FT. Flowers thickets  
on rough BARKS - Fls. pink - very common  
& characteristic of the upper river - ③

Rio Charras - very Juan Molina - 80 ft,  
June 16, 1947 - Collected by Dorothy Allen

5097 - RUBIACEAE - SHRUB - 12 ft, Fl. <sup>white</sup> FRAGRANT - (5)

SUMMIT CERRO SANTA RITA - COLOMBIA PROVINCE  
1200 - 1500 FT. 9/13/47 - WITH DOROTHY ALLEN

5098 - COMPOSITE - VINE - Fl. <sup>FRAGRANT -</sup> WHITE - COMMON - (5)

5099 - MELASTOMACEAE - SHRUB - 6 ft. <sup>Fl. PINK</sup> UNDERSIDES OF LEAVES

BLOOD RED - COMMON - (SEE HOPESSON) (5)

5100 - RUBIACEAE - WOODY VINE - Fl. WHITE -  
VERY COMMON - FRUITS RED - (6)

5101 - SYMPHONIA - ?? SHRUB - 5 ft, <sup>YELLOW LATEX -</sup> Fl. PINK - (7)

5102 - EUPHORBACEAE - TREE - 25 ft, Fl. ORANGE  
YELLOW - COMMON - (SEE WOOD SPECIMEN) - (9)

5103 - HABENARIA - TERRESTRIAL - SEPAL'S GREEN - LIP &  
PETALS WHITE - (3)

5104 - <sup>ERICACEAE</sup> SHRUB OR WOODY BUSH - 5 ft, <sup>Fl. yellow</sup> TIPPED DARK GREEN - (6)

5105 - BIGNONIACEAE - LIMA - Fl. YELLOW - (3)

5106 - MELASTOMACEAE - VINE - <sup>EPiphytic??</sup> Fl. very pale pink - (9)

5107 - MELASTOMACEAE - SHRUB - 4 ft, Fl. WHITE - (2)

5108 - ASCLEPIAD <sup>VINE</sup> - Fl. pale yellow - VERY STRONG

FRAGRANCE AT NIGHT & EARLY MORNING EXACTLY  
LIKE CESTRUM NOCTURNUM - (6)

TERRISTRICH

- 5109 - Sobralia - S. & P. Cream yellow - leaf cream yellow - inner throat darker yellow - NOT TERRISTRICH - (SEE PICKLE & PHOTO) (1)
- 5110 - Polystachya - Epiphytic - red yellow - (1)
- 5111 - Epidendrum - S. & P. pale greenish yellow - leaf pure white - Epiphytic - (1)
- 5112 - DICHAEA - Epiphytic - S. & P. rather pale blue - leaf deep blue - (SEE PICKLE) (1)
- 5113 - Pleurothallis - F. C. - (SEE PICKLE) (1)
- 5114 - Scaphytophis - F. C. - pale pink - (1)
- 5115 - Scaphytophis - F. C. - pale lavender - (1)

TRAILS - ISTHMIAN HIGHWAY - STEEP ROAD CUTS NEAR RIO NATUNCILLO - 500 FT. 9/13/47

- 5116 - Sobralia - S. & P. pale cream yellow - leaf pale yellow - inner throat darker yellow. Growing in red clay on faces of road cuts. These cuts were made about 1942-43, hence the plants must have established themselves in this unlikely position within short interval. Plants of catasagoua viridiflavum also found, as well as Scaphytophis chusis - (SEE PICKLE) (2)

YUCY. FORT SHERMAN - C. 2. 0 mi. 9/13/47

5117 - DESMONEID - Climbing Spiny Palm -  
FREQUENT - Fls. STRAW YELLOW - (1)

5118 - STALOCARPUS - TREE - 20-60 FT. Fls. ORANGE -  
SAP BLOOD RED - Smaller sized trees frequent  
on margins of WAXWOOD. Surrounded by  
ACROSTICHUM FERN - LARGER TREES infrequent  
on higher ground - (See KOPPELHOFF & WOOD  
specimen) (12)

YUCY, MICHIGAN - C. 2. 0 mi. 9/13/47

5119 - LARREA - SHRUB OR SMALL TREE - 15 FT.  
Fls. purple - FRAGRANT - INFREQUENT. (7)

FORT SAN LORENZO - 100 FT. - 9/13/47

5120 - MORACEAE - POPOVIA? - SHRUB OR SMALL  
TREE - 10 FT. Hollow stems inhabited by  
ANTS. (6)

5121 - FERN - FORMING LARGE CONSPICUOUS clumps  
on the BRANCHES of LARGER TREES - (5)

5122 - MALVACEAE - SHRUB - 5 FT. Fls.  
PINK - (5)

EL VALLE CHIPUITO - 1800 FT. - P.O. NAMBOA  
9/14/47 -

5123 - STANNHEPERA - SEE DRAWING - PICKLE & PHOTO - (1)

Limon Island - YCTY, NUEVO LIMON - CIVIL DATON LAKE -  
80 FT. SEPT. 24, 1947 - COLLECTED BY WALTER COPE -

5124 - CATASETUM BICOLOR - (SEE PICKLE) SEE CRATIO  
MANUSCRIPT FOR DESCRIPTION - (1)

O. 2.

YCTY, NAMBOA - 150 FT. SEPT. 25, 1947

*CESPEDEZIA MACROPHYLLA* SEEM. *POCYNACEAE*  
5125. TREE - 75 FT. - 2 1/2 FT. TRUNK DIAMETER,  
FLOWERS YELLOW - INFREQUENT -  
(WOOD SAMPLE SENT HBS) (5)

RIO LIMON, HONDURAS - YCTY, P.O. BLANCA - P.O.  
NAMBOA 6/9/47 -

5126 - *MORMONYCE* sp. S. & L. TAN - STRIPES RED - BROWN - LIP  
TAN, WITH RED BROWN STRIPES, CREST AND MIDDLE  
BLotch AT BASE OF LIP. COLUMN GREENISH YELLOW.  
COMMON ON LARGE TREES - (1)

5127 - MAXILLARIA - SPP. YELLOWISH GREEN, LIP DARK  
MAROON - VERY COMMON - (2)

1000 FT.  
VERY, DOLEGA - CHIRIQUI PROVINCE, FLOWERS IN ROSE  
COLLECTION BY HARRY DOWN, SEPT. 28, 1947

5128 - CYCNOCAEBUS VENTRICOSUM - STAMINATE FLS. (1)

CARRO SANTA RITA, 1200 FT., COLON PROVINCE,  
FLOR. NUMBER 9/27/47

5129 - POLYSTACHYA - FLS. GREENISH YELLOW - (1)

EL VALLE DE ARROYO, JAMA DEL TIENE, 3000 FT.  
FLOR. NUMBER 9/27/47

5130 - EPIDENDRUM - SPP. PALE GREEN, BLOTCHED RED-BROWN -  
LIP WHITE, MARKS PURPLE - (SEE PHOTO) (1)

RIO LINDO, HONORIAS, VERY, PARA BLANCA - FLOR.  
NUMBER 9/28/47

5131 - EPIDENDRUM - (1)

EL VALLE DE ANTON, zona del valle, 3000 ft. HA  
LAMBONA 9/28/47

5132 - PLANTO MALLA, fls. color yellow. (3)

Cerro Santa Rita, Colón Province, 1200 ft.  
SEPT. 30, 1947

*CESPEDEZIA MACROPHYLLA* SEEM

5133 - TREE - 60 FT. fls. color yellow. frequent. (8)

TRANS-ISTHMIAN Highway - Veta, Rio Maricao, 200 ft.  
SEPT. 30, 1947

*CESPEDEZIA MACROPHYLLA* SEEM

5134 - TREE, 45-65 FT. fls. color yellow, infrequent. (8)

Fort San Lorenzo, C.R., 50 ft. SEPT. 30, 1947

5135 - Lauraceae, tree - 65-70 ft. fls. white, frequent. (6)

5136 - SCANDENT STAMBS - 15 ft. FRUITS RED - inf.  
white. milky latex. (1)



THINGS - *Testudinaria* Highway - Valley, Rio Narivcillo -  
100 ft. 9/30/47

5137 - *Brinnonia* - woody stems in tops of large  
trees - fls. yellow (3)

CARRASANTA RITA - Colon Province, P.R. MARIEN  
9/28/47 - collected by Dorothy Allan -

5138 - *Palisotia* STAM (see pickle) Plate - (1)

Region north of El Valle, 3000 ft. P.R. MARIEN  
9/28/47

5139 - *Lycaste* *pauciflora* - in tops of large trees -  
g. pale olive brown. *Lycaste*, spotted rose  
red - lip white, spotted rose red. (1)

HILLS EAST OF PANAMA CITY - CERRO J. J. J., 2000 FT.  
10/1/47

5140 - TREE - 65-70 FT. Fls. REDDISH YELLOW - FREQUENT. (1)

VCTY, NUEVO LIMON - COLON PROVINCE - 2000 FT. 10/4/47

5141 - RUBIACEAE - BUSHY TREE - 20-30 FT. Fls. PINK.

CERRO CAUJAMA - 3000 FT. Fls. TANGERINE 9/29/47

5142 - *TRICOPILIA REPURPURATA* (SEE PICKLE - PHOTO & PLANT) (1)

UPPER RIO REPURPURATA - STAGNANT LAKE - C. 2. 300 FT.  
COLLECTED BY KRISTINA FRICKELI - 9/28/47

5143 - *MAXILLARIA*, Fls. WHITE. 1-RAYED LOBE OF LIP  
YELLOW. (SEE PICKLE) -

RIO TOCUMEN - HILLS EAST OF PANAMA CITY - 100 FT.  
Fls. TANGERINE 9/30/47

5144 - *PELISTERIA ALATA* - (1)

CHERRERA CLANOS - 50 FT. FL. MARCH 10/4/47

5145 - PERISTEMIA LATA -

(1)

VEGET. QUERCUS LOPES

TRANS - IBERIAN HIGHWAY - 200 FT. FL. MARCH

10/4/47

5146 - LIPIDENDRUM - FL. - PALE GREEN -

(1)

LOCALITY UNKNOWN - FLOWERS IN THE COLLECTION

OF MR. BABBITT - LATE MARCH - 10/4/47

PICULATE FLOWERS

5147 - CYNOCYBUS - FLORENTINUS? A S. & P. TAKEN -

LIP WHITE ON FRONTAL SURFACE, WITH GREEN TIP.

ANTENNAE, NARROWLY MARKED BROWNISH GREEN -

COLOR GREEN. LIP GREEN ON AURSE SURFACE.

FLOWER OVER ALL 9.5 CM. LONG & 5 CM. WIDE -

(SEE PICKS)

(1)

HILLS SOUTH OF EL VALLE - 2000 FT. FL. IN THE

COLLECTION OF MR. WALKER 10/1/47

5148 - FERRESTIA - REPORTED AS FLOWING IN MARCH.

(LIPAS) <sup>22</sup>

(1)

VCTY. RAMBOA - C-2. 100 FT. FLD. 10/2/47

5149 - *CASSETUM VERIDICUM* (1)

CARLO CRUJEANS - 3000 FT. FLD. 10/2/47

5150. *BRASSIA ALLENII* - (SEE PHOTO & PLATE) - DESCRIPTION  
IN MANUSCRIPT. FLOWERS (1)

100 FT.  
VCTY. JUAN CHINA - RIO CHINIS - FLD. RAMBOA 10/2/47  
collected by Dorothy Allen

5151. *CYNIDIUM POSSIDUM* - (pickle only) SEE PLATE -  
DESCRIPTION IN MANUSCRIPT. FLOWERS (1)

RIO LINDO, HONDURAS - VCTY. PANA BLANCA - FLD. RAMBOA  
5/9/47

5152. *CYPROPTERIX SP.* FLD. P-90 - (pickle only) (1)

VCTY. GUATEMA - CHIKIPU PROVINCE - 500 FT. FLD.  
RAMBOA 10/2/47

5153 - *CYNOCHAS VERTICILLUM* (pickle only) <sup>STAMENS</sup> FLOWERS (1)

Very Concepcion - CHIRIQUI Province - 1000 FT.  
Fto. RAMBORA 9/28/47

5154 - CYCNOCHAS VENTRICOSUM - STAMINATE FLOWERS.  
(SEE PICKLE) (1)

Coastal Swamps near Pico de Orosi - Fto.  
RAMBORA FEB. 20, 1947

5155 - ONCIDIUM STIPITATUM - (PICKLE ONLY) (1)

Rio Pequeni - UPPER MOUNTAIN LAKE AREA - 200 FT.  
Fto. RAMBORA 9/15/47

5156 - ONCIDIUM JUSSELLII - (PICKLE ONLY) (1)

Cerro Trenido - 3500 FT. FEB. 10, 1947 -  
ON WET ROCK FACES.

5157 - UTRICULARIA - fl. purple - pickle only (1)

El Valle - FLOW - 1500 FT. Fto. RAMBORA 9/30/47  
collected by Dorothy Athey.

5158 - ONCIDIUM CRISTA - GALLI - (PICKLE ONLY) SEE PLATE  
& PHOTO - DESCRIPTION IN MANUSCRIPT FROM MEXICO  
THREE FLOWERS - (1)

RIO TAMBORA - 1000 FT. EAST OF PANAMA CITY - 100 FT.  
Fl. NUMBER 9/20/47

ENSATUM

5159 - ONCIDIUM ~~CONCINNUM~~ - (pickles only) Description in  
MSS. None from this - (1)

CARRO CARIPANA - 2000 FT. Fl. NUMBER 9/12/47  
Collected by Dorothy Allen -

5160 - CAMSIDIUM LATIFOLIUM - (pickles only) (1)

5161 - TRICHOCLADIA - (pickles only) (1)

EL VALLE CHIRIQUINO - 2000 FT. Fl. NUMBER 7/6/47

5162 - OYENOCHES ~~F. BELLETTINUM?~~ - STAMINATE Fl.  
(pickles only) (1)

LATON LAKE - 85 FT. Fl. in the collection of  
MR. RABBIT - 10/4/47

5163 - TRICOPITIA MACULATA - (pickles only) <sup>SEE</sup> plate (1)

5164 - DATASATUM VIRIDIFLAVUM (pickles only) (1)

VERY CONSPICUOUS, OBVIOUS PLANT - 1000 FT.  
FLD. SAMBOA 4/29/47

5165 - *CATASENUM DORSTII* - S. GREENISH GREEN ON  
REVERSE SURFACES, DENSELY SPOTTED DILUTE BROWN  
ON FRONTAL SURFACES. PARTS DENSELY SPOTTED  
DILUTE BROWN ON REVERSE SURFACES & IRREGULARLY  
& HEAVILY BLOTCHED DILUTE BROWN ON FRONTAL  
SURFACES. POINTED 1/3 OF apex OR MENTUM OF DIP  
GREEN, SHADING TO CONFINED PURPLE, WITH  
FRINGED, YELLOWISH GREEN MENTUMS -  
ANthers CAP GREENISH YELLOW - WIND LIP  
NOT CONSPICUOUS - (Pickle Ouchy) (1)

EL VALLE - 2000 FT. NORTH - FLD. SAMBOA 7/9/47

5166 - *CYCNOCYBUS AUREUS* - (STAMINATE FL.) PICKLE OUCHY -  
SIF. GREENISH WHITE, WITH SPARSE SPOTTING OF  
RED-BROWN - LIP WHITE, WITH LOWER TWO LARVAE  
TOOTHED PROCESSED LIKE GREEN, COLUMN RED-BROWN -  
ANthers CAP YELLOW - (1)

VCTY. Remedios, 2000 FT. - 10/6/47

5167 - *Ctenanthe hirsuta* (Pickel only)

SEE PLATE -

(1)

VCTY. LA CHORRERA - 50 FT. FLD. TAMBOA 3/20/47

5168 - *Oncidium stipitatum* - (Pickel only) S.P.P. yellow

blotched red-brown - frontal & lateral lobes of

lip bright yellow on both surfaces, crest

blotched orange -

(1)

CARRO CAMPANA - 2500 FT. FLD. TAMBOA 8/18/47

5169 - *Pescatorea cerina* - (Pickel only) (1)

VCTY. Remedios - CHIRIQUI PROVINCE - 100 FT.

FLD. TAMBOA 7/12/47

5170 - *Epiphenomenon ocelloides* (Lange) (Pickel only) (1)

CARRO TUYE, VCTY. SANTA FE, VERAGUAS PROVINCE

FLD. TAMBOA 8/30/47

5171 - *Pescatorea cerina* - (Pickel only) (1)



very. Rio TIASARA - CHIRIQUI PROVINCE, 50 FT.  
Fl. in the collection of DR. HAN FRIEDL.  
9/28/47

5172. *OPHIOGLOSSUM VENTRICOSUM* (THIS IS A VERY  
SMALL FLOWERED FORM, WHICH SHOULD PROBABLY  
BE GIVEN A NAME) PICKLE ONLY -  
(FLOWERS ARE FROM TWO PLANTS) (1)

Cerro SANTA RITA, COLON PROVINCE. 1200 FT.  
10/15/47 - WITH DR. HAN FRIEDL.

5173 - *BESNERIACEAE* - LAX SHAUB - 8 FT.  
Fl. yellow - IN HEAVY FOREST WITH  
TREE FERNS. (9)

Locality UNKNOWN. PROBABLY <sup>FLOOR OF HILLS</sup> NORTH OF EL VALLE  
FLOWERS IN THE COLLECTION OF DR. HAN FRIEDL.  
10/23/47

MEMBRANEA?  
5174 - NOTYLIA - (PICKLE ONLY) (11)

3000 FT

CARRO TUTI, VERY. SANTA FE, AVERANAS PROVINCE  
FLOWERS IN THE COLLECTION OF BRANAM FAIRELITO  
9/8/47

5175 - STANHOPEA pulchra - (pickle only) (1)

EL VALLE - 2000 FT. FLD. IN THE COLLECTION OF  
BRANAM FAIRELITO 9/12/47

5176 - STANHOPEA - (pickle only) (1)

5177 - EPIDENDRUM DIFFORME (pickle only) (1)

5178 - CATASETUM VIRIDIFLAVUM (pickle only) (1)

5179 - BRASSIAS (2 sp.) NOTE DIFFERENCES IN  
BASE CALLI. (pickle only) (1)

5180 - MORIMORS (pickle only) (1)

CARRO SANTA RITA, COLOMBIA PROVINCE, 1200 FT.  
FLD. IN RAMBOCA 10/25/47 WITH BRANAM FAIRELITO

5181 - CATASETUM BICOLOR - 2 sp. pale flesh pink.

lip white, spotted & marked red-brown -  
(SEE pickle) (SEE PHOTO) (1)

EL VALLE, FLOOR, 1500 FT. FLD. TAMBOA  
10/25/47

5182 - MORMODES - S. Y. P. TAN, AROUND REDDISH  
BROWN - WITH PARALLEL LINES OF BROWN  
SPOTS. LIP YELLOWISH BROWN, WITH A  
RECURVED BROWN TIP, AROUND BROWN.  
COLUMN PALE GREENISH YELLOW.  
(SEE PICKLE) (1)

CARRO CAMPANA - 3000 FT. CLOUD FOREST  
FLD. TAMBOA 10/25/47

5183 - MAXILLARIA (CAMARI'OI'UAI) S. Y. P. BRIGHT  
YELLOW - LIP BRIGHT YELLOW, MARKED  
SCARLET UNDER THE PURE YELLOW  
COLUMN - (SEE PICKLE) (1)

5184 - COELIOPSIS HYACINTHOSMA - DESCRIPTION  
OF FLOWERS IN MANUSCRIPT TAKEN FROM  
THIS PLANT - (SEE PICKLE) (1)

Cerro Santa Rita, Chontal Province - 1200 ft.  
Fls. TAMBOA 10/18/47

- 5185 - pleurothallis - ~~the~~ sepals MAROON, WHITE  
AT THE SOMEWHAT SALVATE BASE. INNER TIPS  
OF SEPALS TAN. petals MAROON, WITH FIMBRIATE  
MARGINS, WHITE AT THE BASE, lip MAROON,  
WITH WHITE TIP. (pickle only) (1)
- 5186 - DICHAEA - S. & P. pale green lip purple - (1)  
(see pickle)
- 5187 - Epidendrum FRANKS (see pickle) (2)
- 5188 - ORCHID - (scaphytopis?) fls. STRIPED LAVENDER -  
COMMON - (pickle only) (1)

Rio Lirio, Honduras, very. Peña Blanca - fls.  
TAMBOA 6/18/47

- 5189 - Pickle only (1)

EL VALLE - 1800 FT. STO. RAMBONA 8/24/47

Collected by MORTON ALLEN

5190 - TRICHOCENTRUM (PICKLE ONLY) ①

CARRO SANTA RITA, CELAYA PROVINCE  
1200 FT. STO. RAMBONA 10/22/47

5191 - MAXILLARIA - Fls. white - PROBABLY SAME AS  
THAT COLLECTED BY FALKENBERG ON MADERA  
LAKE - ①

VALLEY, PROGRESO - CHIQUIRI PROVINCE -  
1000 FT. STO. COLL. HARRY DUAN 10/26/47

5192 - CYCLOPSIS VENTRICOSA ①

CARRO SANTA RITA, 1200 FT. STO. COLL.  
GRAHAM FALKENBERG 10/26/47

5193 - DICHAEA - Bl. & fl. pale green - tip pale  
GREEN - HEAVILY MARKED PURPLE - ①

CARRO SANTA RITA - 1200 FT. 10/15/47

5194 - TRIDONIDIUM - (5)

5195 - SCAPHYTHOIDS - fls. pale lavender - (1)

5196 - EPID. NOCTURNUM - Foliage coppery  
red - (1)

5197 - HAXISEA - S. p. & lip scarlet - lip with  
basal fleshy yellow callus - (1)

5198 - epiphytic ORCHID  
FRAGMENTARY flower - produced from basal leaf axils (1)

El Valle - Loma del TI'ARE - 3000 FT.  
FLD. RAMBOA 10/15/47

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5199 - PLEUROTHALLIS COCOPRHOEUS? - (1)

CARRO YUTE, REGION WEST OF SANTA FE, VERAGUAS  
PROVINCE, 3000 FT. FLD. RAMBOA 10/18/47

5200 - STANNOPERA JOLLA, fls. only in pickle (1)

5201 - ONCIDIUM STOBILIFERUM - STERILE - (1)

~~THESE ARE THE ORIGINALS~~

~~SEE COL. RHOOT 71001~~

18  
5480  
210  
290

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