RECORD

759

F. R. Fosberg

Collection number
book # 18

beginning with

26790

to # 27167

Descriptive Catalogue
of the Collection of Plants and Fossils
from the Hawaiian Islands

1918

(January 22, 1946 - March 12, 1947)

(26790 - 27167)

PLANT SPECIES

PLANT SPECIES

1-18	Albizia (Albizia) ...
19-20	Albizia (Albizia) ...
21-22	Albizia (Albizia) ...
23-24	Albizia (Albizia) ...
25-26	Albizia (Albizia) ...
27-28	Albizia (Albizia) ...
29-30	Albizia (Albizia) ...
31-32	Albizia (Albizia) ...
33-34	Albizia (Albizia) ...
35-36	Albizia (Albizia) ...
37-38	Albizia (Albizia) ...
39-40	Albizia (Albizia) ...
41-42	Albizia (Albizia) ...
43-44	Albizia (Albizia) ...
45-46	Albizia (Albizia) ...
47-48	Albizia (Albizia) ...
49-50	Albizia (Albizia) ...
51-52	Albizia (Albizia) ...
53-54	Albizia (Albizia) ...
55-56	Albizia (Albizia) ...
57-58	Albizia (Albizia) ...
59-60	Albizia (Albizia) ...
61-62	Albizia (Albizia) ...
63-64	Albizia (Albizia) ...
65-66	Albizia (Albizia) ...
67-68	Albizia (Albizia) ...
69-70	Albizia (Albizia) ...
71-72	Albizia (Albizia) ...
73-74	Albizia (Albizia) ...
75-76	Albizia (Albizia) ...
77-78	Albizia (Albizia) ...
79-80	Albizia (Albizia) ...
81-82	Albizia (Albizia) ...
83-84	Albizia (Albizia) ...
85-86	Albizia (Albizia) ...
87-88	Albizia (Albizia) ...
89-90	Albizia (Albizia) ...
91-92	Albizia (Albizia) ...
93-94	Albizia (Albizia) ...
95-96	Albizia (Albizia) ...
97-98	Albizia (Albizia) ...
99-100	Albizia (Albizia) ...

Collection and Field Note Book

No. 18

(August 25, 1946 - March 15, 1947)

(26790 - 2716²)

MARSHALL ISLANDS

	Page No.
<u>Ailinglapalap Atoll</u> , Bikajle Islet	1-16
..... 26790-26872 ...	17-20
<u>Airik Islet</u> 26873-26889 //	21-22
<u>Enebing Islet</u> 26890-26894 ...	21-26
Description of atoll	27-28
<u>Majuro Atoll</u> , Uliga (Rosalie), Ruby Islets	29-34
..... 26895-26899 ...	35-48
<u>Dalap (Salome) Islet</u> .. 26900-26929 ...	47-52
<u>Darrit (Rite), Majuro (Laura) Islets</u> ..	53-68
..... 26930-26988 ...	67-74
Description of islets	
<u>Likiep Atoll</u> , Likiep Islet 26989-27047 ...	
<u>Aikini (Agony) Islet</u> .. 27048-27066 ...	

HAWAIIAN ISLANDS

<u>Oahu</u> , Upper Nuuanu Valley 27067-27070 ...	81-82
<u>Honolulu</u> , Makiki, Waikiki, Waimanalo,	81-86
..... 27071-27077 ...	85-86
<u>Kailua</u> , Kailua Beach . 27078-27081 ...	85-88
<u>Nuuanu Pali and Valley</u> 27082-27091 ...	
<u>Honolulu</u> , Waikakululu, Kakaako, Kailua	89-92
Stream 27092-27100 ...	91-92
<u>John Rodgers Airport</u> , Kalihi Kai	
..... 27101-27104 ...	93-94
<u>Honolulu</u> , Oahu R.R., Kalihi Kai	95-96
..... 27105-27110 ...	
<u>Mokulua Islet</u> 27111-27115 ...	

*Descriptive passages
percolated for files 1974-B. Decker*

HAWAIIAN ISLANDS

	Page No.
<u>Oahu</u> , Mouth of Niu Stream, Koko Head	97-98
..... 27116-27120 ...	99-104
<u>Heeia</u> , Heeia Bridge 27121-27134 ...	105-106
<u>Keeau Valley</u> 27135-27142 ...	107-110
<u>Honolulu</u> , Kalihi, Iwilwei, Kewalo, Manoa	
Valley 27143-27151 ...	

JOHNSTON ISLAND

<u>Johnston Island</u> Coll. K.P. Fosberg	111-114
..... 1-26	

HAWAIIAN ISLANDS

<u>Oahu</u> , Honolulu, Makiki ... 27152-27157 ...	115-116
<u>Kailua Beach</u> , Kahana Valley, Ala Moana Park,	117-120
<u>Honolulu</u> 27158-27164 ...	

CALIFORNIA

<u>Stanislaus County</u> , Turlock 27165-27166 ...	121-122
--	---------

VIRGINIA

<u>Rocky Mountain</u> , Southern Shenandoah National	121-122
<u>Park</u> 27167	

<u>MICRONESIA</u> , Coll. H.C. Townes	126-127
Coll. R. E. Oakley	129-134
Coll. R. K. Lyman	135

<u>MICRONESIA</u> , <u>MARIANAS ISLANDS</u> , <u>GUAM</u> , <u>CAROLINE ISLANDS</u> , Misc. Coll.	137-139
--	---------

<u>SAIPAN</u> , Coll. Homer A. Stephens	195-198
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759

F. R. Fosberg

Collection number

book # 18

beginning with

26790

to # 27167

5"

7"

sh
en
st.

1 - 1946 Marshall Is.

Aug. 25 - Bikajile
Islet.

flat coral sand and
rubble mostly
planted to coconuts

26790 *Pemphis acidula*
common on both beaches
and around mangrove
depressions.

91 *Bruguiera*
common in mangrove
depressions

92 *Morinda citrifolia*
common generally

93 *Canavalia* ^{cathartica Thourans} ~~microcarpa~~
local on inner beach

94 *Cordia subcordata*
local

95 *Ipomoea alba* L.
common

96 *Soulamea amara*
local ~~near~~ inner beach

97 *Nephrolepis acutifolia* (Desv.) Christ
common on tree trunks in
mangrove depressions.

98 *Terminalia samoensis* Rech.
occasional near inner beach

Ailinglapalap

2

trees 6-8 m. tall,
cut for logs "kūngi"

tree 5 m. tall, others
twice as tall, calyx
and hypanthium
red. "jong"
tree 5 m. tall, flower
and fruit white
"nin"

vine climbing in trees
flowers ^{magenta} purple. "mar-lap"
tree 10 m. tall, sterile
"kōno"

vine, flower white
closed in afternoon.

tree 6 m. tall; flowers
white, fruit green. "kabujiling".
fronds pendent
det. Garrett

fruits from almost defoliated bush.
small tree 4 m. tall | red
"kung" | when
ripe.

26799 *Scaevola frutescens*
abundant on outer beach

26800 *Guettarda speciosa* L.
common generally

01 *Pipturus ~~albidus~~ argenteus*
common generally

02 *Messerschmidia argentea*
common along outer beach
rare in inner

03 *Clerodendron inermis*
~~is~~ near houses, possibly
planted

04 *Crinum*
planted near houses

05 *Crinum*
planted near houses

Ailinglapalap Atoll 4

rounded shrub 3 m.
tall, others up to 5 m.,
flowers white; fruits white
fleshy. "kümat"
used medicinally, ~~to~~ young
tips ~~crushed~~ and water used
to treat mothers after
childbirth.

tree 3 m. tall, flowers
white. "wut"

tree 4 m. tall; "arame"
inner bark used for fish lines.

tree 5 m. tall; leaves
fleshy, silvery green,
flowers white. "kirin".

spreading shrub;
flowers white; stamens
and style maroon purple.

"ulij"

peduncle
1 m. tall
slightly
flattened
purple
neck 3-4 dm. tall, leaves
purplish distally,
about 1 m. long, in a rosette.
flowers red-purple without,
white within "kieb ilin"

neck 3-4 dm. tall, leaves
in a rosette, 1 m. long,
purplish distally,
flowers white except for
reddish margins of ~~petals~~
tepals without. "kieb iwan"

5 1946 Marshall Is.

26306 *Intsia bijuga*
common in and
near mangrove depression

07 *Digitaria pruriens* var. *microbachne*
rare under coconuts

08 *Pisonia grandis*
occasional

09 *Barringtonia asiatica*
occasional

10 *Calympane thysidioides*

10 a *Taxithelium tenuisetum*

10 b *Calympane moluccense*

on base of coconut tree

11 *Leucophanes glauculum*

on base of coconut tree

12 *Ectropothecium cyperoides*

on ground

13 *Euphorbia charissonis* Briss.

common locally in open
place

14 *Hernandia*

rare on inner beach

15 *Artocarpus altilis*

common, mostly away
from beaches

16 *Cassytha filiformis*

common, mostly near inner
beach, parasitic on many things

ailinglapalap atoll 6

trees up to 10 m. tall, all
sterile

small sterile tree
"kangal"

tree 7 m. tall, sterile;
~~petioles~~ base of midrib
red; "woop" fruits used
to poison fish.

"lumen ni"

light green cushion
"lumen ni"

"lumi"

stems ascending.
leaves pale beneath.

tree 3 m. tall, one fruit
seen, perigone inflated,
apical plugged by fruit.

"ping (a) ping"

tree 10 m. tall, others
much taller, "me"

fruit eaten extensively.

leafless, stems yellow-green,
flowers white "kanun"

- 26817 *Calophyllum inophyllum*
occasional along inner beach
- 18 *Ochrosia parviflora* ^{*oppositifolia*}
common locally,
especially around
mangrove depressions and
near ~~near~~ outer beach.
- 19 *Allophyllus*
common locally in
from inner beach
- 20 *Wedelia biflora*
abundant everywhere
under coconuts, considered
a serious weed.
- 21 *Hibiscus tiliaceus*
locally common ~~near~~ in
interior of island
- 22 *Eleusine indica*
common around village
- 23 *Paspalum vaginatum*
common locally,
pure stands
- 24 *Nephrolepis acutifolia* (Desv.) Christ
on old coconut stump
- 25 *Premna obtusifolia* R.Br. (obtus. leaves)
under coconuts

large tree, sterile
"luej"

tree 6 m. tall, ~~tree~~
sap milky; flowers
white "kejiwai"

tree 6 m. tall, fruit
yellow when not
quite ripe. "kütak"
— sprawling tangled herb,
with resinous odor;
flowers yellow.
"markuene"

bush 1.5 m. tall, others
seen much larger
but all sterile "loo"
(pronounced law) inner
bark used for cordage.
"ujuj alaf"

matted and tangled
"aija"

det. 1976
Garrett. finds east "iri"

aromatic, sterile shrub
"kai"

26326 *Triumfetta procumbens*
common under coconuts

27 *Phyllanthus* ^{*amarus* Schomb. & Th.}
~~*resens*~~ det. G. L. Webster, 1955
common around village

28 *Pilea microphylla*
common in open places
under coconuts about village

29 *Phorrea*
on rotting coconut stump

30 *Polyporus*
on rotting logs

31 *Asplenium nidus* L.
on base of coconut tree

32 *Thuarea involuta*
common under trees

33 *Lepturus repens*
common locally in open
and under coconuts

34 *Tacca leontopetaloides*
abundant under coconut trees
spontaneous here (but
planted in other places)

35 *Fimbristylis cymosa*
common generally

36 *Fleurya ruderalis*
common locally on broken
rock.

37 *Vigna marina*
common generally except in deep shade

prostrate, flowers
yellow "atat" inner
bark used as weaving material.
"mar kauene"

prostrate, fleshy
"tabalok"

"merebep"

rosette of ascending
fronds "andap".
prostrate, forming
close mat "ijij"
forming thick tangled
mat "ijij"

herb, scape 1 m. tall,
leaves 0.5 m., yellow.
"moh(ā)moh" tuber made
into starch, fed to babies.
tufts, "roots with
peppery odor "perijman".
stems red.
"nen hut(ā) hut"

prostrate, extensive, flowers
yellow "marukunen jojo"

- 26338 *Cyperus*
in mud of small taro patch
- 39 *Pteris*
rare in ditch in village
- 40 *Polypodium scolopendrium*
common generally, Terrestrial
- 41 *Cyrtosperma merkusii* (Hassk.) Schott
det. D.H. Nicolson 6/1958
in marshy excavations
cultivated
- 42 *Adenostemma lavenia*
rare under trees
- 43 *Colocasia esculenta*
cultivated in marshy excavation
- 44 *Amicularia*
on dead log

Aug. 25 same in garden

- 45 *Cucurbita*
commonly cultivated
- 46 *Xanthosoma*
cultivated
- 47 *Rhynchos*
weed
- 48 *Cenchrus echinatus*
weed
- 49 *Euphorbia thymifolia*
weed on base of coconut tree
- 50 *Rhoeo discolor*
cultivated

- small tufts
"pukui"
rhizome short, erect.
"iri"
rhizome creeping,
fronds erect "kino"
leaves up to 2 m. tall,
"yaraki" corn eaten.
- flowers white.
"pulumulakaj"
sterile, petioles deep purple.
"katali".
gelatinous "lotilingen kitiriki".
not eaten.

- prostrate, leaves gray-
spotted, flower orange.
leaves dull green above,
very glaucous beneath
"katali".
flower (yellowish green), slightly
brownish in center.
"luki (a) luki"

prostrate, purplish.

rhizome branching, leaves
purple beneath, flowers white.

13 1946 Marshall Is.

26851 *Carica papaya*
common

52 *Lantana camara*
cultivated

53 *Citrus aurantiifolia*
cultivated, healthy

54 *Asclepias curassavica*
cultivated, healthy

55 *Musa nana* Linn.
cultivated, healthy

56 *Musa^x sapientum* L.
cultivated, healthy

57 *Eragrostis amabilis*
weed, common

58 *Pseuderanthemum atropurpureum*
cultivated as border plant, healthy

59 *Plumeria rubra* L.
cultivated, healthy

~~60~~ *Codiaeum variegatum*
cultivated, healthy

61 *Tagetes erecta* (L. var.)
cultivated, healthy

62 *Hibiscus* (hybrid)
cultivated, rather ~~not~~ healthy

63 *Nerium indicum* Mill.
cultivated, healthy

64 *Ocimum sanctum* L.
cultivated

Ailinglapalap atoll 14

stem erect 2 m. tall
flowers cream. ^{or}
fruit of 2 plants eaten.
single sterile, very
chlorotic plant.
sterile small tree.

herb 2 m. tall, flowers
red with orange corona.
plant 1 m. tall, fruiting

plant 3-4 m. tall.

spreading tufts

shrub 2 m. tall, leaves
purple ^{very lactiferous;}
small tree, flowers
cream white, yellow
in center.

shrub 1.5 m. tall; leaves
twisted, red and green.
malodorous herb, flowers
bright orange.

bush 1.5 m. tall
flowers red.

shrub 4 m. tall, flowers
bright rose, fragrant.
aromatic herb

15

1944 Marshall Is.

- 26365 *Russelia equisetiformis*
cultivated, unhealthy
- 66 *Mirabilis jalapa*
cultivated
- 67 *Polyscias sentellaria*
cultivated as border shrub,
healthy
- 68 *Pseuderanthemum eldorado*
cultivated as border shrub,
healthy
- 69 *Polyscias*
cultivated, healthy,
border shrub
- 70 *Polyscias*
cultivated
- 71 *Ipomoea batatas*
cultivated
- 72 *Solanum lycopersicon*
cultivated, healthy

Ailinglapalap atoll 16

spreading chlorotic
herb.herb 0.5 m. tall,
flowers closed in
forenoon.— erect shrub 2 m. tall,
sterileerect shrub, trimmed
to 1 m. tall, ~~flowers~~
leaves green, flowers
white with deep crimson
spots in center, one lobe
down, 2 horizontal, 2
erect and overlapping.
— erect, 2 m. tall, sterile.(26370 grows from
same root, shoots
emerging just above
ground).

— frequent sport from # 26369)

prostrate, sterile,

— badly attacked by sucking bugs.
~~erect~~ herbs, staked up,
flowering but not
setting much fruit.

Aug. 26 - Airik Islet,
really a part of Ailinglapalap
Islet

Planted to coconuts
except for a large
mangrove swamp, draining
to lagoon by a tide channel.

26873 *Hedyotis biflora*
near houses

74 *Lumnitzera*
in small wet depression

75 *Cyperus*
abundant in open marshy
low spot.

76 *Ixora carolinensis* Casei Hance
one bush, near dwelling,
probably planted

77 *Sophora tomentosa*
one small bush along
trail,

78 *Hymenocallis littoralis*
commonly planted

Sonneratia and *Rhizophora*
dominant in this mangrove
swamp, which has mud
bottom and opening to lagoon.

prostrate, flowers white.
"klarsa"

tree 10 m. tall, leaves
somewhat fleshy, flowers
scarlet. "kameme"
caespitose

shrub 3 m. tall,
flowers vermillion
"kajini" (informant, when
asked if this had been
brought from Bonape said no,
it was ~~in~~ Marshallese).

bush 1 m. tall, badly
eaten by caterpillars
"kili"

caespitose, leaves
erect, scapes erect
1 m. tall, flowers
white "kichi"
peduncles compressed.

19

1946 Marshall Is.

26879

Hibiscus tiliaceus

common away from beaches

30

*Thalassia hemprichii*in tidal channel leading
from mangrove swamp to lagoon

31

Intsia bijuga~~occasional~~ occasional in
various situations

32

Sonneratia ^{alba J. Sm.} caseolaris~~can~~ codominant in ~~extensive~~
mangrove swamp

33

*Rhizophora ^{mucronata}*codominant in ~~extensive~~
mangrove swamp

34

Rhizophora ^{mucronata}

same

35

Digitaria ^{purpurea var. microbachne} sanguinalis

common under coconut trees

36

Bruguiera

mangrove swamp, occasional

37

Ipomoea gracilis ? *littoralis* L.

locally common

38

Centella asiatica

common in grass under co. conuts

39

Catharanthus roseus (L.) Am

cultivated

Ailinglapalap atoll 20

bushy tree 6 m. tall,
flower yellow with
deep purple center.
"loo" (pron. law).

sterile "jojo"

shrubs or small
trees, always seen sterile
"kubark"small tree 5 m. tall,
spreading. "eroak"tree 6 m. tall, leaves punctate
"pulapul" beneath.same - fruiting twigs
from several trees.tree 6 m. tall; calyx and
hypanthium bright red;
corolla salmon. "jong"

sterile prostrate vine

"lawjiningen kujilgail"
rhizome creeping,leaves erect "maribu"
flowers rose (other
plants white).

~~1945~~ 1946 Marshall Is.

Aug. 26 Isthmus between
Airik and Enebing Islets
(parts of Ailinglapalap Islet)
sand flat

20390 *Suaeda maritima*
rare, one plant seen

Aug. 26 Enebing Islet
(part of Ailinglapalap Islet)
planted to coconuts.

91 *Ficus macrophylla*
planted in yard of
former Japanese trader.

92 *Ricinus communis*
planted

93 *Hedyotis biflora*
common along trail

94 *Gomphrena globosa*
cultivated, healthy

Only 3 islets of Ailinglapalap
atoll (really two if Airik
and Enebing, connected by a
sand isthmus; are considered
one) were investigated -
Bikajle, Airik and Enebing.
These vary from place

shrub 3 m. tall,
flowers yellow "rekung"

large, sterile, spreading tree,
8 m. tall, very broad;
"rubber" said to have
been brought from Jaluit.
herb 2 m. tall, immature
fruit greenish yellow.
prostrate, flowers
white; "kalarso"
heads bright magenta

place as to substratum
and vegetation. There
seems to be no true
raised coral. Some
places are sandy
some gravel or rubble,
others broken coral.

The outer beach is ~~not~~ in most places rocky while the inner may be either sand or rock. There are several stretches of sand on the outer beach, and here the coconuts come down to the water, and the normal fringe of *Scaevola* and *Messerschmidia* is absent.

The islets are entirely planted to coconuts ^{with breadfruit secondarily}, except a mangrove swamp, several mangrove depressions, and patches of forest on coarse broken rock on Bikajle.

Undergrowth varies, but is usually largely *Wedelia*. *Premna* is common locally, as is *Hibiscus tiliaceus*, *Pipturus*, etc. *Pemphis*, reaching tree size, is common on both beaches and around mangrove depressions inland. Near the inner beach ~~is~~ are open areas under

the coconut trees, with grasses - *Thuarea leptanthes*, *Digitaria* - patches of *Euphorbia*, *Vigna*, and with *Polypodium* everywhere.

Near the inner beach *Pisonia*, *Calophyllum*, *Pemphis*, *Messerschmidia*, *Soulamea*, *Hernandia*, etc. are common or local.

Near the outer beach are thickets of *Pipturus*, *Achrosia*, *Intsia*, *Guettarda* etc. under the coconuts and the normal fringe of *Scaevola* and *Messerschmidia* lines the beach.

Pandanus is common everywhere ^{as is breadfruit}, *Guettarda* less so. *Allophyllus* is occasional, reaching tree size.

The mangrove ^(called "kott") depressions are common, with *Bruguiera* and occasional *Intsia*, rarely *Lumnitzera*, in the water, *Pemphis* around edges. The water is clear.

Nephrolepis-
like fern
epiphytic
here.

and the substratum rocky.

A large mangrove swamp occurs on Airik with *Sonneratia* and *Rhizophora* dominant and *Bruguiera* secondary. There is open water in the center, connected with the lagoon through a channel at high tide. The bottom is a coral mud, light gray in color.

Some areas of the coconut plantation are kept clear of undergrowth and weeds, at least temporarily. Others are much overgrown.

There is a practice of burning bushes, leaves, etc. Also holes are dug to receive them.

Epiphytes are not common except on bases of trees, where mosses and ferns are sometimes found.

Excavated taro patches are extremely rare. *Alouasia* common.

In this lagoon the coral growth is such as one reads about in south sea stories - brilliantly colorful, varied, great tree-like stag-horn and a smooth stag-horn like kind on the lagoon bottom and on the inner fringing reef. Never have I seen such a varied assortment. Precious coral of a sort is found here. Fish are brilliant, varied, and numerous. The lagoon near the reef edge is, on quiet days, like an aquarium ^{much} more so.

Two more *Pandanus* vars. recorded "alorwin" and "laitorerer". No especial effort made on these. Some of same as on Jaluit seen.

Aug. 27 - Uliga (Rosalie)
Islet, e. end of Majuro Atoll

around military
installations

26895 *Eleusine indica* (L.) Gaertn.
common everywhere
around buildings and roads.

96 *Ochrosia parviflora* ^{oppositifolia}
occasional, part of
original forest left as ornamental

97 *Vernonia cinerea*
common everywhere about
buildings and roads.

98 *Phyllanthus* ^{amarum Schum. & Th.} ~~sp.~~ ^{det. G. L. Webster}
occasional around buildings

Aug. 27 Ruby Islet, e. end of

99 *Ficus tinctoria*
planted as ornamental
around buildings

spreading tufts
decumbent at base.

Tree 10 m. tall; flowers
white, ~~to~~ corolla lobes
recurved; fruit
green, paired, in
clusters.
erect, flowers purple

erect

Majuro Atoll.

tree 4 m. tall, fruits orange.
(looks as though these
trees are so large that
they must antedate
American occupation).
introduced from Gilbert
Is.

#

Aug. 27 Dalup (Salome) Islet, e.
weedy ground along
air strip

26900 *Paspalum vaginatum*
one patch seen here,
others on Rita Island.

01 *Eclipta alba*

rare in open space

02 *Digitaria pruriens* var. *microbachne*
common locally

03 *Sonchus oleraceus*

occasional, only seen here

04 *Clerodendron inerme*
occasional in dense brush

05 *Flemingia nuda*

pure stand on bare
coral rock

06 *Triumfetta procumbens*
on bare coral rock

07 *Stachytarpheta jamaicensis* ~~indica~~ ^{habd}
on bare coral fill, one plant seen.

08 *Bruguiera*

around small depression
in coral rock, abundant.

09 *Cynodon dactylon*
open roadside

10 *Ipomoea pes-caprae*
common near outer beach

end of Majuro Atoll

sterile, culms tangled.

prostrate, ray, white.

spreading tufts

erect herb; flowers yellow.

shrub 3 m. tall,
flowers white, stamens
and style maroon purple.
stems red, flowers
reddish.

prostrate, extensive,
flowers yellow.

flowers blue violet,
leaves smooth.

tree 10 m. tall, calyx
and hypanthium red.

prostrate, forming a
dense mat, scapes erect.

prostrate, extensive;
flowers bright purple.

- 26911 *Thesarea involuta*
near outer beach, common
- 12 *Lepturus repens*
near outer beach, common

Aug. 27 - Islet west of
Dalap (Salome) Islet, east
end of Majuro Atoll
rather dry rocky flat
coral generally, ~~off~~
thinly planted to coconuts,
in places shaded by groups
of breadfruit trees.

- 13 *Artocarpus altilis*
occasional, in small groups
- 14 *Morinda citrifolia*
common locally
- 15 *Polypodium scolopendrium*
common generally
terrestrial, but occasionally
on bases of coconuts
- 16 *Digitaria* ^{*pruriens* var. *minutiflora*} ~~*sanguinalis*~~
local
- 17 *Cassytha filiformis*
common everywhere
parasitic on many species.
- 18 *Wedelia biflora*
common or abundant
everywhere

prostrate
prostrate, tangled.

All much disturbed
as it is used as an
ammunition dump.

tree 12 m. tall

shrub 2.5 m. tall,
flowers white,
fruit white when mature.
rhizome creeping,
fronds erect.

stems green, flowers
white,

sprawling tangled
herb, tangles 2 m. deep,
flowers yellow.

- 26919 *Premna thurifolia* R. Br.
common generally
- 20 *Cordia subcordata*
local in thickets
- 21 *Tacca leontopetaloides*
rare along road
- 22 *Intsia bijuga*
rare in brush
- 23 *Nephrolepis acutifolia* (Desv.) Christ, ^{det. Garrett} erect
rare, seen on one coconut
stump
- 24 *Guettarda speciosa*
common generally
- 25 *Messerschmidia argentea*
common along beaches
- 26 *Terminalia littoralis*
rare in thickets
- 27 *Fimbristylis cymosa*
abundant generally
- 28 *Pipturus argenteus*
common generally
- 29 *Pernpflia acidula*
common generally, in
one place almost a pure
stand (specimen from there)

- shrub 2 m. tall,
flowers green.
- small tree, flowers
deep orange, fruit green.
- herb 1 m. tall
- shrub 4 m. tall,
flowers with petal
white, stamen and
style dark red.
- tree 6 m. tall; flowers
white, fruit immature.
- shrub 3 m. tall;
leaves fleshy, silvery green;
flowers white
- small tree 3 m. tall,
fruits green.
- tufts, roots with
peppery odor.
- shrub 2 m. tall,
very chlorotic.
- tree 5 m. tall, flowers
white.

Aug. 27 - Darrit (Rita) Islet
 e. end of Majuro Atoll
 around buildings in
 military installation

26930 *Chloris inflata*
 common locally

31 *Raphanus sativus*
 one plant seen

32 *Sorghum vulgare*
 common locally

33 *Hedyotis biflora*
 local here, ~~very~~ (abundant
 on Dalap I.)

Aug. 28 - Majuro (Laura)
 Islet, w. end of Majuro Atoll
 around dwellings in village.

34
 cultivated

35 *Amaranthus dubius*
 weed, only one seen

36 *Euphorbia heterophylla*
 weed, very abundant
 in gardens.

37 *Alocasia macrorhiza*
 common, apparently spontaneous

tufts, culms erect
 from decumbent bases.
 spikes purple.

erect herb 1 m. tall,
 root enlarged,
 flowers white.

herbs up to 1 m. tall

prostrate, flowers
 white

sterile; leaves dull
 green above, white
 beneath, up to ~~the~~
 2 m. Tall.

sap milky; base of
 trait scarlet.

leaves erect, green

26931 a *Adenostemma laevius*

26931 b *Euphorbia thymifolia*

- 26938 *Cenchrus echinatus*
abundant, especially
around village
- 39 *Phyllanthus* ~~sp.~~ ^{*amarus Schum. & Th.*} ~~det. G. L.~~
common generally
- 40 *Ipomoea batatas*
cultivated sparingly
- 41 *Musa sapientum*
cultivated
- 42 *Zephyranthes rosea*
cultivated sparingly
- 43 *Ocimum sanctum* L.
cultivated
- 44 *Polyscias scolotheca*
cultivated
- 45 *Calophyllum inophyllum*
common generally
- 46 *Asclepias curassavica*
cultivated
- 47 *Mirabilis jalapa*
cultivated

same, ^{above} ~~along~~ inner beach

- 48 *Euphorbia chamissonis* Boiss.
common in grassy place
- 49 *Sophora tomentosa*
rare at top of beach

Webster, 1955

- leaves unusually
large.
prostrate, sterile.
- plants 3 m. tall
when mature.
densely caespitose,
flowers pink.
- aromatic herb,
flowers purple.
- erect shrub 1.5 m. tall
sterile, leaves cochleate.
- tree 10 m. tall; flowers
white with yellow stamens.
- herb 1.5 m. tall, flowers
red with orange corona
- low bushy herb, flowers
red, yellow and mixed,
closed at 2 p.m.

- low, ascending herb,
leaves pale beneath "perol"
- bushy clump, 3 m. tall
"kile"

26950 *Pseuderanthemum eldorado*
commonly cultivated as
border along paths

51 *Hernandia*
occasional near beach

52 *Terminalia littoralis*
occasional, top of beach

same - interior of island
planted to coconuts ^{and breadfruit} with
thickets, grassy places
and muddy *Cyrtosperma* patches

53 *Hibiscus tiliaceus*
occasional thickets

54 *Centella asiatica*
common along trails
and in grassy spots

55 *Crinum*
commonly planted

shrub 2 m. tall; leaves
green; flowers white
with crimson-purple
spots in center, one lobe
downward, 2 horizontal,
2 erect.

tree 10 m. tall, ripe fruit
white, inflated,
orifice round, not lobed.

"bing (ā) bing"

word used for canoes & houses.

sterile shrub 2 m. tall,
"kiking"

sterile bush 4 m. tall
"law"

rhizome creeping, above
ground. "marbok"

rosette of leaves up to
1 m. long, peduncle
slightly flattened, 1 m. tall,
flowers white with
purple filaments and
style "kik"

26956 *Citrus aurantiifolia*
planted, occasional

57 *Colocasia esculenta*
planted in muddy
excavations

58 *Cyrtosperma chamissonis*
planted in muddy depression
Cyrtosperma neriussii (Hussk.) Schott
det. DHN:cdsm (US) 6/1958

59 *Cyrtosperma chamissonis*
planted in muddy depression

60 *Cyrtosperma chamissonis*
planted in muddy depression

61 *Cyperus*
abundant weed in muddy
Cyrtosperma patches

62 *Jussiaea*
abundant weed in muddy
Cyrtosperma patches

63 *Blechnum*
occasional in sunny spots

64 *Vigna marina*
common locally

small tree 6 m. tall
flowers white (sterile
twigs from different tree)
sterile, corms eaten
"katah"

petioles red, not prickly.
growing much larger
"yarij" var. "katah"
considered inferior to other
varieties for eating.

growing
much
larger. petioles bronze, mottled,
somewhat prickly. "yarij" var. "yarij" ^{common} eaten

growing
much
larger. petioles green, only slightly
bronzed, prickly. "yarij"
var. "kalikalik" ^{common} eaten.
caespitose, erect.
"puker"

erect herb 2 m. tall,
flowers yellow, petals
obcordate, 1 cm. long,
falling readily. "nen kut (ā) kut".
(this name rather doubtful).

weak-stemmed, prostrate,
flowers white, falling
very easily "klarjong"
(name doubtful).

prostrate, extensive, flowers yellow
"marini jojo"

- 26965 *Saccharum officinarum*
~~sp~~ experimentally cultivated
- 66 *Pandanus*
 occasional
- 67 *Ipomoea alba*
 common
- 68 *Hedyotis biflora*
 common locally,
 this in pebbly dooryard
- 69 *Sida fallax*
 planted in dooryard
- ~~70 *Scaevola frutescens*~~
- 70 *Hymenocallis littoralis*
 near dwellings
- 71 *Annona muricata*
 planted near dwellings
 occasional.
- 72 *Eragrostis amabilis*
 common along trails and
 around dwellings

badly diseased

tree 6 m. tall, heads
 somewhat oblong
 "lajok rer" fruit
 eaten.

vine, climbing over
 bushes, sterile "marble"
 prostrate, flowers
 white "kenat" and
 "naruto" names from
 2 informants, possibly
 both wrong.

flowers orange, center
 slightly marked
 with red. "kio" flowers
 used for garlands,
 plant used medicinally.

leaves in distichous
 rosettes, 1 m. tall, erect;
 scape compressed.
 bicarinate, 0.7 m. tall,
 flowers white "kieb".
 small tree, apparently
 sterile but said to
 bear fruit.
 prostrate tufts.

- 26973 *Euphorbia thymifolia*
dooryard, common locally
- 74 *Acalypha*
cultivated in dooryard
- 75 *Ficus tinctoria*
planted in dooryard,
common.
- 76 *Polyscias fruticosa*
planted in dooryard
- 77 *Pseuderanthemum atropurpureum* comm.
abundantly planted
along trails.
- 78 *Carica papaya*
common generally
- 79 *Cucurbita pepo*
common around villages
planted
- 80 *Oplismenus compositus*
common generally in shade
- 81 *Ipomoea gracilis*
common generally

prostrate, purple.

bush 2 m. tall, leaves
red and green variegated,
chlorotic. "iout" (name doubtful)

small tree 4 m. tall
"tepero" said to have
been brought from Filbert Is.

bush 2 m. tall, leaves
yellow-green
"kubuk" (name doubtful.)

shrub 2-3 m. tall,
leaves deep purple,
flowers pink, closely
mottled with crimson.
one lobe down, 2 horizontal,
2 erect. "ulej"

single stem, erect,
3 m. tall, ~~leaves~~
flowers cream white.
"kenabu"

prostrate, extensive
flowers orange, leaves
mottled with gray.

prostrate, panicle
ascending.

vine, prostrate or climbing,
flowers purple.

"marlab"

1946

- 26982 *Ananas comosus*
planted in garden
- 83 *Flemingia strobilacea*
common under trees
- 84 *Portulaca samoensis* v. *Poelln.*
common in openings
- 85 *Dioscorea bulbifera*
common

same outer beach

- 86 *Nephrolepis acutifolia* (Desv.) Christ.
on old coconut stump
- 87 *Asplenium nidus*
on tree trunks (common
in interior, epiphytic
and terrestrial)
- 88 *Scaevola frutescens* (Mill.)
fringing upper beach

The islets on the
east end of the atoll
have been rather thorough-
ly denuded in the construct-
ion of air strips, ammu-
nition dumps, warehouses

sterile, chlorotic

stems reddish.

prostrate, fleshy,
flowers yellow, 14 mm.
across. "pujang"
vine, climbing into
trees, tuberiferous
"lajawer"

det. *ginett* "anum karere"

rosette of ascending
fronds "karatup"

Kr.

shrub 2 m tall,
flowers white; fruit
white, fleshy. "kūnat"

camp and other military
installations. During
the war 10000 men were
stationed here. Where
there has not been
continuous activity

vegetation has come back in most places. These eastern islets are narrow and in most places quite rocky. In some places the coconuts were not destroyed. The basic vegetation away from the camp, airstrips, etc. is a brush of *Scaevola*, *Guettarda*, *Messerschmidia*, *Morinda*, *Wedelia*, etc. with occasional patches of Breadfruit, thinly planted with coconuts. One place supports a solid stand of *Pemphis*, which is scattered elsewhere. *Fimbristylis* is abundant in openings, as is *Triumfetta*.

A small mangrove swamp with *Bruguiera* persists along the air strip. A pure stand of *Fleurbaey* was seen on bare coral rock.

of reef raised
slightly
above sea level.

Around camp Eleusine, *Cenchrus*, *Fimbristylis*, *Cynodon*, etc. are common.

The west end of Majuro Islet, at the west end of the atoll, is quite different. It is over 1 km. wide, with sandy soil with considerable humus. It is planted to breadfruit and coconuts, kept rather open in some parts beneath, elsewhere with thickets of *Premna*, *Wedelia*, *Morinda*, etc. small excavations, but rather deep, filled with mud, where *Cyrtosperma* and *Colocasia* are very numerous, and in aggregate quite extensive. Between them the earth excavated from them forms small hills, even up to 10 m. ~~high~~ high. Toward the extreme

west end these hills seem more bulky than could be accounted for by the contents of the excavations. The natives say that they were thrown up by a ~~the~~ typhoon many years ago.

Carica, Cucurbita, Alcasia, as well as a number of ornamentals - Pseuderanthemum, Polyscias, etc. are planted or occur spontaneously in considerable abundance along trails and around villages. Asclepias, Mirabilis, Crinum, etc are planted in door yards. Citrus, Annona, etc are sparingly grown.

One small *Buguiena* ~~delta~~ swamp was noted, with definitely muddy bottom. Young seedlings very abundant.

Scaevola and *Messerschmidia* are common, fringing

the outer beach and extreme west end. The inner beach is open, with ~~a~~ coconuts down to beach, *Calophyllum* and *Pernandia* trees here and there.

Epiphytes are not common on this atoll anywhere. A few mosses and occasional ferns.

Native names secured on Majuro are not very reliable. I suspect that the informant, when he didn't know, gave the first name that came into his head.

Tacca abundant, used Sept. to Dec. An important food.

Pandanus fruits ripen all year, but each var has a season. Shortest in spring, just before breadfruit season.

Aug. 29 - Likiep Islet,
Likiep Atoll
flat ^{mostly} very rocky
ground, little soil,
planted to coconuts
but with little
undergrowth, few
breadfruits, mostly
around village,
Scaevola fringe on
outer beach, with
Messerschmidia and
Guettarda behind it!

26989

Cyperus ~~stuppeus~~ ^{javanicus}
rare under breadfruits
in slightly moist place

90 *Vernonia cinerea*
occasional

91 *Euphorbia hirta*
common locally

92 *Hymenocallis littoralis*
planted in village

93 *Thuarea involuta*
common locally

94 *Messerschmidia argentea*
common near outer beach

Vegetation has a much
drier aspect than
on the southern atolls.
Breadfruits are much
less abundant. Ferns
are absent except
Polypodium scolopendrium.
undergrowth, mosses
and epiphytes are
rare or lacking.

caespitose, gray.
"säp(ä) säp"

erect, flowers purple

erect, tips arching

erect, leaves and
scapes 1 m. tall,
flowers white, peduncles
compressed.

prostrate "ujuj"

shrub 3 m. tall, leaves
fleshy, silvery green
flowers white.

- 26995 *Lepturus repens*
common generally
- 96 *Luriana maritima*
rare near outer beach
- 97 *Terminalia littoralis*^{samoensis}
rare near outer beach
- 98 *Dodonaea viscosa*
common very locally
- 99 *Scaevola frutescens*
common along outer beach
- 27000 *Tacca leontopetaloides*
common generally
- 01 *Cinnam*
planted

- tufts with runners
"ijij"
shrub 2 m. tall
- "ngiangi"
sterile shrub 1 m.
tall.
- tree 6 m. tall, bark
shreddy, "kamin"
young stems used
in weaving fish traps.
- shrub 1.5 m. tall,
flowers white; fruit
white "konnat"
juice squeezed out
of ripe fruit and
used as eye drops.
- herb, up to 1 m. tall,
leaves turning yellow
"mokmok" tubers
grated to extract
starch which is
much used for food.
Harvested about October.
- rosette of leaves with
scape of white
flowers with purple
filaments and style.
"kib"

- 27002 *Guetarda speciosa*
~~common~~ near outer beach
- 03 *Wedelia biflora*
 common near outer beach
- 04 *Fleurbaeya ruderalis*
 occasional on rocky ground
- 05 *Portulaca samoensis*
 common locally
- 06 *Boerhavia diffusa*
 common on dry broken coral
- 07 *Albugo*
 parasitic on *Boerhavia diffusa*
- 08 *Clerodendron inerme*
 common locally
- 09 *Cassytha filiformis*
 common, parasitic on various plants
- 10 *Polypodium scolopendrium*
 common generally, terrestrial

- small tree, flowers white "wut i lornai".
- sprawling herb, flowers yellow "marajej"
- stems red. "nen but (a) but"
- prostrate, fleshy; leaves somewhat compressed; flowers yellow. "bujang"
- root thick, stems prostrate, reddish, elongate; leaves white beneath; ~~elongate~~; slightly infested by *Albugo* "rebijraka".
- producing erect branches in otherwise prostrate ~~the~~ plant.
- extensive sprawling shrub; flowers white with purple stamens and style "ulij"
- stems yellow-green, flowers white, fruit green "känun".
- rhizome creeping between rocks, pods erect. "kino"

flowers
pink.

59

1946 Marshall Is.

add. 30 of same
 around village
 27011

Likiep atoll

60

27011 *Euphorbia heterophylla*
common locally

12 *Euphorbia chamoissonis*
common generally

13 *Cleusine indica*
common, especially
around village

14 *Triumfetta procumbens*
common generally

15 *Phyllanthus* ^{*amarus Schum. & Th.*} ~~*sissuri*~~ ^{alt. G. L.}
common generally

16 *Fimbristylis cymosa*
common generally

17 *Eragrostis amabilis*
common generally

18 *Digitaria pruriens* var. *microbachne*
common locally

Aug. 30 same
around village

19 *Terminalia catappa* L.
along inner beach

20 *Calophyllum inophyllum*
along inner beach

21 *Plumeria* ^{*rubra* L.}
commonly planted and to

herb 0.5 m. tall, bracts
red at base "nukuni"
said to have been brought
from Caroline.

stems ascending,
leaves white beneath
"perül"

tufts

prostrate, flowers yellow.
"adat"

Webster, 1965 erect

tufts "perelejman"

spreading tuft

"inikan prucee"

tree 10 m. tall. flowers
white; fruit green.
"kutil" seed eaten.

tree 6 m. tall; buds white.
"luech"

used for
leis
scent hair oil. small tree, flowers cream
white and yellow, fragrant. "meria"

270222 *Acalypha*
cultivated

23 *Graptophyllum pictum* ?
cultivated

24 *Codiaeum variegatum*
cultivated

25 *Pseuderanthemum* ^{*atropurpureum*}
cultivated extensively

26 *Hibiscus* (hybrid)
cultivated

27 *Acalypha hispida*
cultivated, rare

28 *Stachytarpheta cayennensis*
cultivated

29 *Mirabilis jalapa*
cultivated

30 *Pseuderanthemum eldorado*
cultivated extensively
as hedge plant.

shrub 1.5 m. tall,
leaves red-bronze, some-
what variegated with white;
styles reddish.

— sterile variegated
bush.

— shrub 1 m. tall,
leaves green above,
~~bronze~~ bronze-purple beneath,
white spotted, sterile.

— shrub 1.5 m. tall,
leaves purple (this
branch has leaves
green above, purplish
beneath; flowers pink
~~white~~, closely speckled
with crimson, giving
a deep pink appearance.

— shrub 1.5 m. tall,
flowers light red.
— shrub, spikes deep
crimson.

— shrub 1.5 m. tall,
flowers deep blue-violet.
— much branched herb,
flowers red, closed at
3 p.m.

— shrub 1.5 m. tall, leaves
green, flowers white with
crimson spots clustered at throat.

- 27031 *Caesalpinia pulcherrima* (L.) Sw.
cultivated, seeding itself
- 32 *Ixora carolinensis* Cass. Hance
cultivated,
- 33 *Zephyranthes rosea*
cultivated
- 34 *Polyscias*
cultivated
- 35 *Cestrum nocturnum*
cultivated
- 36 *Cenchrus echinatus*
weed in paths
- 37 *Catharanthus roseus* (L.) G. Don
commonly cultivated
- 38 *Ipomoea batatas*
a few small patches cultivated
- 39 *Paspalum vaginatum*
abundant in muddy
Cyrtosperma patch
- 40 *Cyrtosperma merkusii* (Hassk.) Schott
cultivated in muddy
depression
DMN:LSM (WS) 6/1958
- 41 *Hedyotis biflora*
common locally

- tree 4 m. tall, flowers
bright yellow.
- shrub 2 m. tall; sterile;
— very chlorotic.
- densely caespitose,
flowers bright rose
pink.
- shrub 1.5 m. tall,
both leaf forms on
— same plant.
- shrub 2.5 m. tall,
flowers pale greenish
white. Recently introduced.
- tufts, culms decumbent
at base, ascending.
- herb 0.4 m. tall; flowers
white with pale yellow
center. (rose form
— also seen)
- prostrate, sterile.
- almost choloring out
the *Cyrtosperma*.
- petioles bronzed and
prickly toward base.
- prostrate
"thrust"

27042 *Hippobroma longiflora*
around edge of *Cyrtosperma*
patch

43 *Cyperus*
weed in *Cyrtosperma* patch

44 *Jussiaea*
a few plants in *Cyrtosperma* patch

45 *Erythrina*
the tree in village

46 *Russelia equisetiformis*
cultivated

47 *Pandanus*
planted

Aug. 30 - Aikini ~~Is.~~
(Agony) Islet,
stony ground, planted
to coconuts, except extreme
east end where coconuts
will not grow, this
covered by *Scaevola*
bush with *Guetarda*,
Messerschmidia, *Luriana*, etc.

flowers white.

erect

plant 1.5 m. tall,
flowers yellow.
- tree 8 m. tall.

stems arching;
flowers bright red.
- small plant. 1.5 m.
tall, leaves partially
spineless "bop" var.
"chapulpul" said
to produce edible fruit
and to be good good
leave for weaving hats
and mats.

270 48 *Pandanus tectorius*
near inner beach

49 *Hedyotis biflora*
common in interior of
island

50 *Agave* or *Fourcroya*
one clump in interior

51 *Citrus aurantiifolia*
cultivated

52 *Pisonia grandis*
near house, but
doubtless native

53 *Ipomoea ~~alba~~ tuba*
occasional

54 *Artocarpus altilis* (Park. & Forst.)
common around house

pyramidal tree 7 m. tall
one staminate inflorescence
seen, no fruit; bracts
white, pendent, odor
very strong. "Bij"
var. "erwan" this
var. said to be only one
producing staminate
flowers. these called
"tuath"
prostrate; flowers
white "kenoj"

rosettes of stiff
fleshy leaves, one
beginning to send
up a slender scape.
(original said to have
been cast up on beach).

shrub 3 m. tall,
sterile.

sterile tree 6 m. tall.
"kangal"

sterile vine ~~to~~ "marbele"

tree 10 m. tall, sap milky.
"me" var. "nungenung"

27055 *Pandanus*
near inner beach

56 ~~Pandanus~~ *Morinda citrifolia*
occasional generally

57 *Boerhavia* ^{*altipens*} ~~*diffusa*~~
occasional under
coconuts

58 *Boerhavia diffusa*
occasional under
coconuts

59 *Terminalia littoralis* ^{*samoensis*}
inner beach, occasional

60 *Hernandia*
~~near~~ interior of island

tree 2 m. tall, fruit
on ground check with
immature ones on tree.

"bop" var. "puker"

— fruit eaten.

shrub 2.5 m. tall,
flowers white, fruit
white when ripe "min"
leaves and fruit used
medicinally

— prostrate from thick
root, stems green
leaves whitish beneath,
flowers white, stamens
4.

prostrate from thick
root, stems green
with red joints,
petioles red, leaf
blades whitish beneath,
flowers pink.

— shrub 3 m. tall, ripe
fruits red, terete, not
eaten. "kukung"

— trees 10 m. tall; mature
perigones inflated,
white to red, ovifid
round. "bing bing"

27061 *Premna obtusifolia* R.Br.

occasional in forest

62 *Vigna marina*

common generally

63 *Merium indicum* Mill.

cultivated

64 *Centella asiatica* (L.) Urb.

common locally near houses

65 *Sophora tomentosa*

rare in interior

66 *Suriana maritima*

rare on inner beach

small tree 4 m. tall,

— flowers green "kai"

— prostrate, flowers

yellow "marlap"

— shrub 4 m. tall,

flowers bright rose,

— fragrant.

— prostrate "mango"

sterile shrub 2 m. tall,

"kuli"

— low shrub 1 m. tall

"ngiangi".

Sept. 15 - Upper Nuuanu
Valley, near Upside Down
Falls,

Thick woods

27067 *Tibouchina* ~~*urvilleana* (DC.) Cogn.~~
well established in
underbrush

68 *Stachytarpheta*
roadside

Kailua ~~Point~~ 2 m.

69 *Verbesina encelioides*
common along roadsides
in entire region

Lanikai Point, Kailua

70 *Santalum ellipticum* ~~var.~~ ^{littorale}
common on low dry
grassy slopes

Sept. 21

Honolulu, Makiki

71 *Ficus*
cultivated

Trunk gray, smooth
sap milky, turning
rose pink on exposure to air.

shrub 1-2 m. tall,
flowers deep purple.

herb up to 1 m. tall,
flowers lavender-blue.

herb 1 m. tall,
flowers yellow.

10 m.

large patches, low
shrubs, leaves
greenish gray, flowers
greenish, fragrant.

wide spreading tree
15 m. tall, no aerial roots,
but trunk with wide-
spreading buttresses and
large spreading roots
at surface of ground.

fruit immature, mostly dropping
at no time before maturity

Sept. 21 - Honolulu, Waikeke,
near Moana Hotel

27072 *Pandanus*
cultivated

Sept. 21 Waimanalo,
away from beach.

5 73 *Passiflora foetida* var. *goosypifolia*
roadside weed, dry
road cut, common.

→ Sept. 22 - Honolulu, Makiki
in garden

4 74 *Justicia betonica* L.
in hedges and borders,
spontaneous

4 75 *Phyllanthus*
weed in shaded places

2 76 *Thunbergia alata*
spontaneous around edges
of garden

small tree, 4-5 m. tall,
fruits in small heads,
15-20 cm. long, 10-12 cm
diam., phalanges
bright vermillion,
even the ~~top~~ outer part,
fragrant.

short vine, ascending,
ill-scented; fruit
pale green.

erect herb 1-2.5 m. tall,
bracts white with green
veins, flowers lavender
with a white spot outlined
with purple in lower lip.

vine; flowers cream-white
with purplish-black center.

- 27077 *Holmskioldia sanguinea*
cultivated

Sept. 22 - Kailua, Kailua
roadside near bridge

- 5 78 *Paederia foetida* var. *guatemalensis*
climbing on fence

- 6 79 *Passiflora foetida* var. *guatemalensis*
climbing on fence

Sept. 22, Kailua Beach, Kailua
thickets back of beach

- 5 80 *Schinus ~~molle~~ terebinthifolius*

- 6 81 *Pluchea indica*

Sept. 22 - Top of Nuuanu Pali
exposed crests,
grassy slopes and ~~rocks~~ ledges.

- 4 82 *Erigeron canadensis* Conyza
common

- 5 83 *Selaginella* cf. *arbuscula*
earth banks and ledges

dense arching shrub
2 m. tall, calyx burnt
orange, corolla scarlet.

vine with very disagreeable
odor, flowers dull
lavender, purple within,
lobes with yellowish hair.
vine, ripe fruits dark
crimson red.

shrub 2.5 m. tall, flowers
pale green.
shrub 2 m. tall,
flowers pinkish

bonariensis (L.)
erect
cong.

~~frank~~ plants curved, mostly
so as to lie flat against
substratum, but some
opposite to this.

- 27034 *Conyza canadensis* var. *pusilla*
occasional locally
3 85 *Digitaria henryi*
common

Sept. 22 Nuuanu Valley
near ^{upper} reservoir

~~on~~ grassy earth embankment
along road at reservoir

- 6 86 *Andropogon virginicus*
common

- 4 87 *Spathoglottis plicata*
common

- 8 88 *Cyperus polytachyos* Rottb.
common

- 5 89 *Sida rhombifolia*
occasional

- 4 90 *Paederia foetida*
occasional

- 4 91 *Lonicera japonica*
common along top of embankment,
possibly planted for erosion control

heads white

prostrate, slightly
bluish green.

erect

erect, flowers magenta

erect

large semiprostrate
much branched plant,
flowers faded orange.
- vine, ill-scented;
flowers lavender, purple
within, lobes with
yellowish hair.
- vine, flowers white,
turning yellow.

Sept. 22 - ~~at~~ Honolulu,
Nuuanu stream at
School Street Bridge

27092

6

Dicliptera chinensis
dominant plant in
undergrowth under trees
above level of stream

7 93 *Paspalum urvillei*
single clump in bed
of stream in grassy place
(common up valley near reservoir)

3 94 *Echinochloa ~~coloniensis~~ ^{crus-galli} (L.) Beauv.*
dry edge of cement-lined
stream bed

2 95 *Alternanthera ^{sessilis}*
single plant in crevice
of stone wall above stream

2 96 *Cyperus ^{difformis}*
rare in ^{wet} cement bed of stream

3 97 *Lemna cf. minor L.*
wet place on cement of
stream bed

8 98 *Ruellia*
cement stream bed

thin tangled ground
cover, branches erect
or ascending, flowers
bright rose-purple
within, paler without.
erect clumps, hairs
at base irritating

culms ascending.

pendent

light green.

tangled herb up to
0.8 m. tall, flowers
blue-violet.

Oct. 5 Honolulu, Kakaako
27099 *Pluchea ~~ostreata~~*
coral fill, very common

~~27100~~ Oct. 5 Kailua Stream,
Kailua Beach

27100 *Ruppia maritima* var. *pacifica* H. J. & Foster
abundant in brackish water
just inside beach
at mouth of stream

Oct. 12 - John Rodgers
Airport, Kalihi Kai, Honolulu
~~sub~~ saline coral fill,
with mostly *Atriplex*,
some *Lesquerium*, a few weeds,
much bare ground.

01 *Atriplex semibaccata*
occasional on fresh fill

02 *Atriplex*
very common on fresh fill,
most abundant species

03 *Atriplex*
on pile of fresh coral rubble

04 *Lonchocarpus*
around old embankment

shrub 1.5 m. tall,
heads purplish.

prostrate, gray-green,
fruiting bracts red, fleshy.
main branches prostrate
leaves gray

prostrate, forming a thick
mat. leaves green.
ligules pale yellow.

Oct. 12 Oahu R.R., Dillingham
Blvd., Kalihi Kai, Honolulu
railroad embankment,
coral rubble

27105 *Cynodon dactylon* var. *maritimus*

06 *Heliotropium* ^{*curassavicum*} ~~*curassavicum*~~

07 *Euphorbia*
common

08 *Euphorbia*
common

08a *Verbesina encelioides*
common

09 *Rhizophora mangle* L.
very abundant, pure
stands on tidal flats
and along tidal channels

10 *Sesuvium portulacastrum*
common

- deep loose ^{tangled} mass,
more or less glaucous.
prostrate, fleshy, very
glaucous, flowers white.
plants arching, branching
more or less in one plane,
green, flowers white.
plants arching, branching
more or less in one plane,
plant and flowers reddish
or purplish-green.
plant gray, heads
yellow.
shrubs up to 4 m. tall.
flowers ^{with} whitish petals,
yellowish sepals.
prostrate, stems red,
leaves not erect, fleshy
but strongly compressed,
flowers pink.

Oct. 13 - North Mokuua Islet.

steep slopes of volcanic ash or weathered tuff,

27111 *Eragrostis variabilis*
rocky cliff, common

12 *Casuarina*
a few plants on steep slope

13 *Prosopis*
one clump on beach

14 *Leucaena* ^{*leucoccephala* (Ham.) De Wit} ~~*glauca*~~
one small plant seen on slope

15 *Scaevola* ^{*taccada*} ~~*fastuosa*~~
abundant on steep slopes and ledges.

Plants seen but not collected were:

Jacquemontia sandw.

Lipochaeta integrifolia

Sporobolus virginicus

very dry at this season.
Only shrubs, ~~or~~ fleshy perennials and half dead bunches of grass in evidence.

large clump, mostly dried up. culms almost prostrate.
bushes, depressed by wind, branchlets fleshy: sterile.
low rounded dense clump 2 m. high; flowers yellow; fruit immature.
plant 0.8 m. tall.

low spreading shrub, small leaved condition probably due to drought, as larger leaves were on ground under bush.

Oct. 19 - Honolulu, Makiki
(Makiki + Kinan sts.)

- 27116 *Bumelia*
cultivated street tree

mouth of
Oct. 19 Nin Stream
tidal marsh filled
with Batis and with
thickets of *Rhizophora*;
cut by road embankment.

- 17 *Rhizophora mangle*
dense thickets in water.

- 18 *Pluchea indica*
occasional in edge of
marsh.

- 19 *Asystasia gangetica*
common, well established
on road embankment

Oct. 19 - landward end
of Koko Head

- 20 *Ocimum gratissimum* L.
common on dry grassy
slopes

round topped tree
20 m. tall, trunk
vertically fluted,
1 m. thick. bark rough.

shrubs 2-3 m. tall.

shrub 0.6 m. tall,
heads pinkish.

dense prostrate
herb, flowers with
limb and upper side
of throat purple,
lower side yellow and plicate.

aromatic suffrutescent
herb, young growth
just starting.

Oct. 20 - Heeia Bridge.
Heeia, Windward Oahu
Broad stream-bed,
mostly occupied near
sea by mangrove swamp.

27121 *Sporobolus* ~~ben~~ *rosea* alba L.
climbing on fence at
edge of swamp

22 *Bruguiera conjugata*
common especially
upstream from main
mass of *Rhizophora*

23 *Rhizophora mangle*
abundant, forming
dense swamp forest.

mangrove swamp
of *Rhizophora mangle* up
to 10 m. tall, *Bruguiera*
common above bridge, *Thespesia*
populnea very abundant around edge.
extensive vine with
many soft prickles,
flowers white with
green ribs outside.
tree 8 m. tall; calyx
and hypanthium
red (dull when mature)

trees over 10 m. tall,
flowers with calyx
yellow, petals whitish.
(leaves not mucronate)

Oct. 20 - Haleiwa, Waialua
 27/24 *Azolla filiculoides* 0 m.
 largely covering the surface
 of a pond

Oct. 20 Haleiwa Point, Waialua
 flat coral rock and thin
 sand; full sun.

7 25 *Vitex ovata* Thunb.
 common

3 26 *Xanthium strumarium* L.
 common

2 27 *Boerhavia diffusa* albiflora
 common locally

3 28 *Albugo*
 parasitic on *Boerhavia diffusa*
 5 29 *Franseria tenaxifolia* ^{confertiflora}
 very common, plants in
 more protected localities larger.

3 30 *Pluchea indica*
 occasional on sand
 summit of

Oct. 22 - The Punchbowl,
 Honolulu

5 31 *Commelina benghalensis* L.
 common on dry roadside

round green loose
 cushions.

stems prostrate with
 ascending branches,
 forming large low masses;
 flowers lavender-purple.
 tree-like suffrutescent
 herb 2 m. tall, aromatic.
 prostrate, extensive;
 leaves white beneath;
 flowers white.
 causing abnormal
 habit in host plant.
 aromatic herbs, up to
 1 m. tall.

shrub 1 m. tall;
 heads pink.

Oct. 23 - Hesia Bridge,
windward Oahu
edges of mangrove
swamp, tidal flat
with *Batis*, *Pluchea* and *Sesuvium*

27132 *Batis maritima*
abundant.

33 *Pluchea indica*
common, especially
along ditch banks

34 *Bruguiera conjugata*
abundant *gymnorhiza*

prostrate with ascending
branches, leaves and fruits
very fleshy.
shrub, 1 m. tall

forming thick stand,
competing successfully
with *Rhizophora* locally
but not able to spread
so rapidly. Tree
6 m. tall (others to 10 m.)
calyx and hypanthium
red, ~~corolla~~ petals dull
orange. (calyx lobes
variable in number).

105

1946

Hawaiian Is.

Oct. 27 - Keanu Valley, ^{north side} near sea

very dry roadside

27135

Sida spinosa

7

36 *Abutilon incanum*

rare

3

37 *Euphorbia* ~~sp.~~ *hirta*

5

38 *Euphorbia thymifolia*

6

39 *Sida*

small colony

6

40 ~~Ficus~~ *Freziera insularis*
occasional

open sand flats back of beach

7

41 *Cuscuta sandwicensis*common, parasitic on *Sporobolus per-caprae*

8

42 *Sporobolus virginicus*dominant sand-binding plant
on small dunes and flats

Oahu

106

flowers closed at 3:00 p.m.
suffrutescent herb;
flowers faded pinkish
white with purple center.
stems spreading at
extreme base, then
ascending, arching at
tips.

very prostrate, purplish.
slender shrubs 1 m.
tall, flowers orange,
with tiny red spots
near center.

clumps, erect culms
from decumbent stems.

stems orange-yellow,

rhizomes deeply buried,
tufts erect, leaves stiff.

Oct. 28 - Bishop Museum Grounds,
Kalihi, Honolulu

27143

Ficus macrophylla Desf.
cultivated shade tree

Oct. 28 Fort of Punchbowl

steep slope in shade
of dense *Leucaena glauca*
forest, around rubbish dump.

3 44

large well-established
colony

3 45

Kalanchoe

established but uncommon

2 46

Zebraia pendula

fair sized, well-established
colony

3 47

Plumbago auriculata
single bush

Oct. 31 Iwilei, Honolulu

3 48

^{*Tournefortia*}
~~*Messerschmidia*~~ *argentea* var.
vacant lot

spreading tree 8 m. tall
leaves coriaceous,
rusty beneath, figs
immature, spherical.

spreading, creeping;
sterile.

leaves fleshy, gray-bronze,
mottled, detachable.

prostrate, leaves
striped above, purple
beneath.

slender shrub 1 m.
tall; flowers pale blue.

shrub 1.5 m. tall,
leaves silvery-green, somewhat
fleshy, flowers white,
fragrant.

109

1946

Hawaiian Is.

(Lower Piikoi St.)

Oct. 31 - Kewalo Honolulu

27149

Aschynomene

established along road-sides and fence-rows.

Nov. 2 - Woodlawn, Manoa Valley, Honolulu

50

Lambus mexicana

cultivated in garden

Nov. 2 steep side of ravine, east side of Manoa Valley, above Woodlawn

51

Hedyotis acuminata

occasional on thick bushy woods of alouites, acacia, etc. on very steep slope

Oahu

110

shrub 4 m. tall, diffusely branched, flowers deep blackish purple without, orange tinged with red within.

shrub 2 m. tall; flowers cream-white.

slender shrub 2 m. tall, foetid when broken; flowers greenish yellow, lobes reflexed

Nov. 1 - Johnston Island
coral sand, around
air-base buildings and
in waste spots

- 1 *Pluchea odorata* (L.) Cass.
occasional
- 2 *Euphorbia hypericifolia* L.
common along fences and
edges of walls
- 3 *Amaranthus viridis* L.
common along fences
- 4 *Pluchea indica* Less.
uncommon, 5 or 6 plants seen
- 5 *Tribulus cistoides* L.
abundant
- 6 *Boerhavia diffusa* L.
abundant, especially in
places not walked on too much
- 7 *Cenchrus echinatus* L.
abundant
- 8 *Euphorbia geniculata* Ortega
abundant locally, on
small dune.
- 9 *Lepturus repens* (Forst.) R. Br.
abundant
- 10 *Ricinus communis* L.
common
- 11 *Chloris inflata* Link
abundant

one coconut seedling seen.

large bush

stems reddish-brown.

stems slightly reddish

low bush

prostrate, flowers
yellow.

prostrate, stems green,
leaves white beneath;
flowers white.

leaves somewhat
glaucous

shrubs up to 1.5 m. tall.

- 12 *Sonchus*
occasional
- 13 *Scaevola frutescens* (Mill.) Kr.
rare, under ^{Messerschmidia} tree
- 14 *Messerschmidia argentea* (L.) Johnston
planted, occasional
- 15 *Vitex trifolia* L.
planted, occasionally
along road.
- 16 *Cynodon dactylon* (L.) Pers.
one small patch seen
- 17 *Eleusine indica* (L.) Gaertn.
rare
- 18 *Thespesia populnea* (L.) Soland.
commonly planted
- 19 *Thespesia thevetioides* (W.B.K.) Schum.
planted, not common
- 20 *Casuarina equisetifolia* L.
commonly planted
- 21 *Cordia sebastena* L.
rarely planted
- 22 *Pithecellobium dulce* (Roth.) Benth.
rare, planted
- 23 *Terminalia catappa* L.
abundantly planted
- 24 *Portulaca oleracea* L.
common
- 25 *Prosopis juliflora* (Sw.) DC.
rarely planted
- 26 *Setaria verticillata* Beauv. common locally

prostrate, rooting at nodes,
flower white; fruit white, fleshy.
tree 2.5 m. tall; leaves
silvery green, fleshy;
flowers white.
bushes 2-3 m. tall;
flowers blue-violet.
prostrate

small tree 3 m. tall,
flowers yellow.
shrub 1-1.5 m. tall,
flowers salmon-pink.
small trees 4-5 m. tall

shrubs 1 m. tall,
flowers orange-vermillion.
sterile bush, very
chlorotic.

~~bushes~~ ^{plant-topped} saplings
up to 1.5 m.

fleshy herb; flowers
yellow, small.

small saplings

Nov. 3 - Honolulu, Makiki

- 27152 *Emilia fosbergii* Nicolson
weed in garden

- 53 *Ficus*
cultivated in yard

Nov. 3 - Heeia Bridge,
windward Oahu

- 54 *Rhizophora mangle*
abundant in mangrove swamp

- 55 *Halophila hawaiiensis* Doty & How
abundant in fish-pond,
quite salty, densely
covering mud-bottom.

Nov. 4 - Honolulu, Makiki

- 56 *Prana*
cultivated

Nov. 5 Honolulu, Manoa

- 57 *Tabebuia*
cultivated, street tree

stem long white villous
flowers scarlet,
somewhat exceeding involucre.
spreading tree with
drooping branches;
figs dry.

Tree 5 m. tall - unusual
individual with many
fruits sending out two
seedlings.
stems prostrate,
leaves transparent green.

wine, climbing on house;
flowers white.

leaves coriaceous;
tree 5 m. tall; flowers
lavender-pink.

Nov. 10 - Kailua Stream,
Kailua Beach

27158 *Rhizophora*

wet *Paspalum vaginatum*
flat, edge of stream, brackish
water, a few trees only.

Nov. 10 - Head of Kahana
Valley, Waikane - Schofield
Trail, Kahana 2000 - 2250 ft.
cloud forest on precipitous
slope, and scrubby
crest.

59 *Rubus rozaefolius*
very common all along
trail up to 2200'

60 *Gouldia*
common along trail

61 *Gouldia*
common along trail

62 *Gouldia*
common along trail

63 *Nertera granadensis*
rare on exposed
crest in low sparse
mossy vegetation

small bushy tree, 3-4
m. tall.

2000' tangled weak canes;
flowers white, fruit
red, edible, receptacle
loose.

2000' small tree 5 m. tall,
fruit black. (seeds collected
for planting for progeny test).

2200' small tree 4 m. tall,
fruit black. (seeds collected
for progeny test).

2200' shrub 3 m. tall, fruit
black. (seeds collected
for progeny test)

2280' prostrate, berries
orange, translucent.

119

1946 Hawaiian Is.

Nov. 11 - Ala Moana
Park, Honolulu

27184

*Rhizophora*occasional in drainage ^{ditch}

Oahu

120

bush 3 m. tall, calyx
yellowish-white, petals
white.

1946-7 California - Va.

Nov. 30, 1946 Turlock,
weeds along roadsides
and edges of cult. fields2765 *Citrullus vulgaris* var.66 *Citrullus vulgaris* var.March 15, 1907 - n.w. slope
of Rocky Mountain, southern
section of Shenandoah Nat.
Park, Va.67 *Lycopodium tristachyum*
common on flat with *Pinus rigida*,
Kalmia latifolia, *Vaccinium*,
etc. on white sand from
decomposed quartzite

Stanislaus Co.

fruit pale green, seeds green
vines dead from frost.
fruit pale green with
dark green stripes;
seeds green with prominent
red-brown markings
vines dead from frost.patches; rhizomes 4-6
cm. in soil; fruit very
rare and already dried up.

1946
125

Micronesia
coll. H. C. Tournes

Truk May 1946

~~Sam~~ Gossypium

May 24 Truk, 7000 ft.

1 s.n. Premna corymbosa (Burm. f.) Rottl

July

~~July~~ v s. end
Saipan, Agingan Pt.

2 s.n. Hedyotis albedo-punctata (Merr.) Fos

3 s.n. Pemphis acidula Forst.

on coral rocks near salt water

4 s.n. Helicteres

on coral rocks near salt water.

July

~~July~~ 12 - Yap, open land
near airstrip

5 1 Nepenthes mirabile

Aug 4 Kapigamarangi Atoll Car.
Machis Islet.

1 s.n. ~~Fla~~

July 28 Woleai Atoll Caroline

1 s.n. Taeniophyllum

Aug. 10. Pohnpei Caroline

1 2

High country near center of island, wet forest

Aug 19. Kusaie Is. Mt. Buahe, (Matante)
wet forest.

126

Flowers lavender

Flowers deep crimson

1	3	<i>Psychotria</i>
1	4	<i>Cyrtandra</i>
2	5	
1	6	<i>Lycopodium cernuum</i> L.
3	7	<i>Psilotum complanatum</i>
2	8	

May 4

1946 Micronesia Coll. R.E. Oakley
129 May 17, ~~Japitan Islet~~

May 17 Eniwetok Atoll, ^{Marshall} Islands
Japitan Islet

1 Antocarpus altalis (Pav.) Forst.
~~at~~ central part of rather dry islet

May 23, Truk, Moen Island

2 on Citrus aurantiifolia

3 on sugar cane

May 26 Truk, Udot, Maniter Village

4 on Musa, observed also
on Moen & Tol Islands,
occasional on all three.

May 26 - Truk, Tefan,
at main saddle on divide.

2 5 Crotalaria mucronata Desv.

May 24 Truk, Tol Island
on sugar cane

May 25 - Truk, Tefan Island

4 7 leaf spot on Sorghum vulgare

tree

~~observed~~

1946 Micronesia Oakley

May 30 Hall Is., Nomwin
atoll, Nomwin I.

8
common disease on *Cyrtosperma*

9
leaf spot on Coconut

June 1 Truk, Moen I.
saddle back of light-house

June 3 Truk, Pis I.

June 4 - Truk, Moen I.
Gossypium

June 9 Tinian Island,
Marpo Wells

June 12 - Tinian Island
Camp Churo

June 13 - Tinian Island

132

leaf spot on Citrus

mist on grass (*Paspalum*
conjugatum?)
leaf spot on *Alouaria*

flowers pale lemon-yellow.

leaf spot on Citrus

1946 Micronesia Oakley coll.

June 16 - Guam, Talafofo

17

June 28 Rota

18

July 2 Saipan?

19

Coffea liberica

July 13 - Yap

20

July 19 Palau, Koror I.

21

22

23

July 23 Palau, Koror I.

24

July 28 Woleai Atoll

25

Aug. 8 Ponape, Palikir

26

Aug. 21 Kusaie, Ila (Lela) I.

27

*Allophylus*disease
on Citrusdisease on *Ipomoea batatas*.disease on *Colocasia*.
leaf spot on sugar cane
leaf spot on citrusdisease on *Ipomoea batatas*.disease on *Ipomoea*

disease on Citrus

1946 Micronesia

R. K. Lyman coll.

Caroline Is.

Aug. 11 - Ponape, Matalanin
River7 s.m. *Xylocarpus granatum*

Caroline Is.

Aug. 21 - Kusaie

1 s.m. *Barringtonia*1 s.m. *Miscanthus floridulus*Aug. 23 - Marshall Is.,
Jaluit Atoll, Jalorplanted around old town site,
~~persisting from cultivation~~

3	1	<i>Cordyline terminalis</i> (L.) Kuntz.
2	2	<i>Cordyline terminalis</i> (L.) Kuntz.
1	3	<i>Canna</i>
2	4	<i>Cycas circinnalis</i> L.
2	5	<i>Polyscias fruticosa</i>
2	6	<i>Sansevieria</i>
4	7	<i>Casuarina equisetifolia</i> L.
3	8	<i>Leucaena glauca</i>
3	9	<i>Polyscias guilfoylei</i>
2	10	<i>Leindapsus aureus</i>

Gantt Aug. 10

Ponape Colonia (Serious weed)

Elephantopus mollis HBK

1946 Micronesia misc. coll.
Marianas Is.

July 4, Guam, Mimosa Valley,
Talise River, trib. of
Talofofo River
coll. D. F. Grether

s. n. *Lygodium*

s. n. *Trichomanes javanicum* Bl.

Marianas Is.

June 20 Saipan

coll. H. G. MacMillan

3 s. n.

Aug. 6 - Caroline Is., Nukunoro Atoll
Kaujema Islet. coll. H. G. MacMillan

1 s. n.

June 10 - Marianas Is., Tinian,
Lasso Hill, abandoned
cultivated ground

1 s. n. *Lagerania vulgaris* - *ciccaris*

June 15 - Marianas Is. Guam
Vergara Farm coll. F. C. Haddon

1 s. n. *Tabernaemontana*
cultivated

leaf spots on *Coffea arabica*.

leaf spots on ?

F. C. Haddon coll.

malodorous

139

1946 Micronesia - Carolines
col Paul Gantt

May 28 Truk Group, Dublon I.

s.n.

Aug. 10 - Ponape, Colonia

very serious weed

s.n. Elephantopus mollis

140

rust

141

142

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152

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

183

184

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Plants collected in Saipan
by Homer A. Stephens Apr. 1945 A.L.

- 1 *Guamnia mariannae* (Laff.) Merr.
- 2 *Polypodium scolopendria* Burm.
- 3 *Eugenia palumbis* Merr.
- 4 *Ceiba pentandra* (L.) Gaertn.
- 5 *Ipomoea indica* (Burm.) Merr.
- 6 *Heliotropium indicum* L.
- 7 *Aglaia mariannensis* Merr.
- 8 *Nephrolepis hirsutula* (Forst. f.) Pr.
- 9 *Mangifera indica* L.

not kept 10 *Planchonella* sp. ?

not kept 11 insect galls on *Premna integrifolia*

12 *Coffea arabica* L.

13 *Hibiscus tiliaceus* L.

14 *Morinda citrifolia* L.

15 *Coffea arabica* L.

16 *Polypodium punctatum* (L.) Sw.

17 *Pyrosia lanceolata* (L.) Fawc.

18 *Vittaria elongata* Sw.

19 ^{algae} *Padina*

20 *Alyxia torresiana* Gaud.

21 *Deeringia amaranthoides* (Lam.) Merr.

22 *Usnea*

23 *Bruguiera conjugata* (L.) Merr.

24 *Acrostichum aureum* L.

25 *Hernandia ovigera* L.

26 *Thespesia populnea*

27 *Delonix regia* (Boj.) Raf.

28 *Cassia fistula* L.

29 *Davallia solida* (Forst. f.) Sw.

30 *Cyperus javanicus* Houtt.

22a *Pyrosia lanceolata* (L.) Fawc.

Stephens

Saipan

12 plants - coll 12 June
'45

- 59 *Messerschmidia argentea* (L.) Johnston.
60 *Ipomoea pes-caprae* (L.) Roth

195

Plants collected in Saipan
by Homer A. Stephens Apr. - 1945 A.L.

- 1 *Guamia mariannae* (Laff.) Merr.
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- 12 *Coffea arabica* L.
- 13 *Hibiscus tiliaceus* L.
- 14 *Morinda citrifolia* L.
- 15 *Coffea arabica* L.
- 16 *Polypodium punctatum* (L.) Sw.
- 17 *Pyrosia lanceolata* (L.) Farn.
- 18 *Vittaria elongata* Sw.
- 19 ^{a. alga} *Padina*
- 20 *Alyxia torresiana* Gaud.
- 21 *Deeringia amaranthoides* (Lam.) Merr.
- 22 *Usnea*
- 23 *Bruguiera conjugata* (L.) Merr.
- 24 *Acrostichum aureum* L.
- 25 *Hernandia ovigera* L.
- 26 *Thespesia populnea*
- 27 *Delonix regia* (Boj.) Raf.
- 28 *Cassia fistula* L.
- 29 *Davallia solida* (Forst.f.) Sw.
- 30 *Cyperus javanicus* Houtt.

SAIPAN

12 June

Unless other wise stated, these plants were all collected in the jungle, near the top of a hill, probably 500 ft. altitude. On this island, it couldn't help but be a rocky place, can't tell for sure about the rock, but am inclined to think that it is mostly lime with perhaps some volcanic material mixed in in certain places. They were all collected on 13 May 1945.

1. Small tree, 15 ft., fruits in a cluster, deep purple color and shaped somewhat like a peanut - 1, 2, or 3 seeds in a fruit. One specimen shows the base onto which the fruits are attached.
2. Fern from 15 ft. up in a tree (don't ask me what kind of tree). This fern also grows in rocky places on the grounds.
3. Shrubby vine - and when I use that combination, it is sometimes like a shrub and at others is like a vine. Fruits brilliant red, flowers whitish.
4. Kapok. At least, this is the tree from which those pods came. 15 to 40 ft. high.
5. Morning glory. Grows everywhere on higher ground. 10 to 15 ft. long. Flowers light blue, turn pink when dried. There's a flower pressed against one of those leaves, so don't pass it up.
6. Plant about 3 ft. high. Grows along the roadside. Flowers whitish. When I say along the roadside, it might have originally been a jungle, but I believe in this case it was in somewhat of a clearing since there are indications of former dwellings close by. You see, unless one was here on the first few days, he has no idea of what was originally there. Things grow fast in a years time - also war machinery and the U. S. engineers change the terrain and the flora very rapidly.
7. Tree, 15 - 20 ft.
8. Fern. Among rocks on hill top. Lots of pandanus around.
9. Tree, up to 40 ft. heavily leaved - that is in contrast to most of the trees in that most of them are as I have said before, the leaves mostly in sort of a layer around the outside. But you stand under this one and you can't see up thru at all. The young leaves are shiny and somewhat reddish.
10. Tree, 20 ft.
11. Fungus on leaf of bush 10 ft. high.
12. Shrubby tree up to 15 ft. White flower, slightly scented.
13. Shrub, tree, vine. This is that damned thing I pictured in a letter. Close to our camp it is a beautiful bush about 10 ft. high. I have also seen it with one trunk and growing up to 25 ft. Then, there was the one that trailed off thru the bushes maybe as much as 35-40 ft.
14. Shrub. to 10 ft. the fellows call it "stink apple", but I don't know just why. Flowers whitish and clustered all around that "ball" center.
15. Shrubby vine. 15 ft. (stems just too weak to stand alone.) Fruits bluish purple.

16. fern from tree. Clumps of this fern were growing about 20 ft. up in the same tree as Nos. 2 and 18. Some fronds 2½ ft. long. Some with one or two branches of the mid rib, but mostly just one simple 'leaf'.
17. Climbing fern. Didn't trace each vine, but it appears in the tops of trees as high as 35 ft. Perhaps it has its start in a fork of the tree, but from general appearances it runs the whole length.
18. fern. 25 ft. up in a tree. Some fronds 2½ ft. long. I guess this is a fern, at least it has the coiled young fronds and its "roots" are like a fern. Couldn't find any reproductive parts.
- (a) 19. Algae from ocean edge - two kinds. The little one is quite thick when in the water, but presses out quite flat. Both are yellowish brown, with perhaps a touch of green. *Make 2 numbers*
- (b)
20. vine, 20 ft. fruits bluish.
21. vine, 15 ft. flowers very small on those spikes and are sort of lavender.
22. lichen on dead tree.

no 22

You can forget about the euphorbia in that previous package because there is now nothing special about it. I told you, didn't I, that the DDT turns the red of that Euphorbia to white.

I guess I'm too tired tonight to type, so I'd better not try to do any more descriptions. Maybe when my sister sends the pictures back, they can do the describing for me.

These were all collected on 12 June 1945 on Saipan.

- 22a. Fern, climbing. From about 20 feet up in a Bread fruit tree. Just what all the other stuff is, is more than I can say, maybe you can figure it all out. The tree was growing on high ground, in fact, probably around 700 ft. altitude. (When I got down from the tree, I found a sign a little farther on saying, "Restricted, Danger - Japs".) I'm not sure whether this is the same fern I sent before or not.
- 23 2. This tree grows about 20 - 25 feet high and in very wet soil. Leaves are shiny, flowers reddish with yellowish insides. The fruit (?) grows directly out from those finger-like flower parts without them ever dropping off. Fruit - the only ones I saw were green and about 8 - 10 inches long.
- 24 3. Fern. This is the same fern I sent before - the big one. All of these parts, except the coiled frond, are from one frond. Wet places.
- 25 4. Tree up to 30 - 40 feet. This is the tree that grows those little gadgets that I sent in that package along with the Kapok and stuff. Low, wet, ground. That little fruit, or seed, is surrounded by a globular outer covering. There is nothing but air between the covering and that acorn-like seed. These were green enough that they smashed flat.
- 26 5. Tree, flowers yellow. Low, wet, ground. Flowers are quite similar to those of that tree-vine-bush thing I sent before. Look like a mallow.
- 27 6. This is what we call the flame tree. And I'd like to know the name of it. The flowers look like a nasturtium, to me. Maybe I just have nasturtiums on my mind, tho, because I can't get the things to grow out here. The tree has very few leaves while it is blooming - one of those trees with no small inside limbs, but all on the outer shell. And all flowers, too. As you look at the tree top, you see nothing but color, that is, no green leaves at all. 10 - 25 ft. Everywhere. Must have been cultivated.
- 28 7. Tree. Very few flowers hanging from the branches. The only tree I found was about 20 ft. high and growing on high ground.
- 29 8. Fern growing along with that climbing fern. (No. ^{22a} E.)
- 30 9. Sedge (is that right - I forget every one of these plants) Grows in moist places - even in rather deep shade, on higher ground. Find it quite often under the bushes and in the grass at the base of the coral cliffs.
- 31 10. Plant about 2 - 3 ft. high. Much branched. Flowers yellowish. Low ground.
- 32 N. Is this a Primrose? Reminds me somewhat of Genathera (spelling). Low ground, along with number ³⁰ 9 and ³¹ 10.
- 33 12. Bamboo. Have seen it on low ground and near hill tops. Not much here on the island.

That doesn't seem like very many this time, but its all I have on hand and that better be enough. Oh yes, I'll include a couple algae from the ocean. And I wish you'd tell me the name of the thing (I believe there are two species, since I found both the large and the small, but none inbetween.) I know it is something to do with Calcareous, but that's as far as I get.

St. Michael

Saipan

12 plants - coll. 12 Aug
'45

196

- 31 *Eclipta alba* (L.) Hassk.
- 32 *Jussiaea suffruticosa* L.
- 33 *Bambusa vulgaris* Schrad. ex Wendl. ?
- 34 *Cerbera manghas* L.
- 35 *Gleichenia linearis* (Burm. f.) Cl.
- 36 *Chrysopogon aciculatus* (Retz.) Trin.
- 37 *Tectaria crenata* Cav.
- 38 *Eleusine indica* (L.) Gaertn.
- 39 *Hedyotis albido-punctata* (Merr.) Fock.
- 40 *Wedelia biflora* (L.) DC.
- 41 *Pamphis acidula* Forst.
- not kept 42 *Guettarda speciosa* L.
- not kept 43 *Ochrosia oppositifolia* (Forst.) Hemsl. ?
- 44 *Ischaemum longisetum* Merr.
- 45 *Malvastrum coromandelianum* (L.) Gaertn.
- 46 *Euphorbia hirta* L.
- 47 *Eragrostis*
- not kept 48 *Eleusine indica* (L.) Gaertn.
- 49 *Cenchrus brownii* R. & S.
- 50 *Zoysia matrella* (L.) Merr.
- 51 *Casuarina equisetifolia* L.
- 52 *Hedyotis albido-punctata* (Merr.) Fock.
- 53 *Vernonia cinerea* (L.) Less.
- 54 *Euphorbia heterophylla* L.
- 55 *Scaevola frutescens* (Mill.) Kr.
- 56 *Clerodendrum inerme* (L.) Gaertn.
- 57 *Myoporum tenuifolium* Forst. f.
- 58 *Bilakia marianensis* Brongn.
- 59 *Messerschmidia argentea* (L.) Johnston.
- 60 *Ipomoea pes-caprae* (L.) Roth

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- 50 *Zoysia matrella* (L.) Merr.
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- 58 *Bilakia mariannensis* Brongn.
- 59 *Messerschmidia argentea* (L.) Johnston.
- 60 *Ipomoea pes-caprae* (L.) Roth

- 61 *Pectyloctenium aegyptium* (L.) Willd.
 62 *Cyperus rotundus* L.
 63 *Amaranthus viridis* L.
 64 algae (orphi)
 65
 not kept 66 *Acrostichum aureum* L.
 67 *Portulaca oleracea* L.
 68 *Commelina benghalensis* L.
 69 *Bibbia mariannensis* Brongn.
 70 *Guettarda speciosa* L.
 not kept 71 *Euphorbia heterophylla* L.
 72 *Polanisia icosaandra* (L.) W. & A.
 73 *Cantharoppermum scarabaeoides* (L.) Baill.
 74 *Euphorbia prostrata* Ait.
 75 *Physalis lanceifolia* Nees.
 76 *Melanolepis multiglandulosa*
 (Rehner.) Reischb. f. & Zoll.
 77 *Achyranthes asper* L.
 78 *Sargassum*
 79 *Turbinaria*
 80
 81 *Halimeda*
 82
 83
 84 alga
 85 *Casuarina equisetifolia* L.
 86 *Amaranthus viridis* L.
 87 *Asplenium falcatum* Lam.
 88 (omitted)
 89 *Albizia lebbek* (L.) Benth.
 90 *Ficus tinctoria* Forst.

- 91 *Crotalaria mucronata* Desv.
 92 *Acacia confusa* Merr.
 93 *Psychotria mariana* Baill. ex DC.
 94 *Callicarpa cana* L.
 95 *Guamnia marianae* (Haff.) Merr.
 96 *Abus pucatorius*
 97 *Premna integrifolia* L.
 98 *Cardiospermum halicacabum* L.
 99 *Leucaena glauca* (L.) Benth.
 100 *Cassia occidentalis* L.
 101 *Emilia sonchifolia* (L.) DC.
 102 *Asclepias curassavica* L.
 103 *Passiflora foetida* var. *hispidula* (DC.) Kel.
 104
 105 *Cassytha filiformis* L.
 106 *Boerhavia diffusa* L.

The ones marked "not kept"
 were returned to Fassett
 with the duplicates.

197

199

61

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not kept 61

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71

not kept 71

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90