R.T. Abbott
Field Record Book
April - October 1945
Sta. Nos. 105 - 256
(NAMRU-2)
FIELD BOOK

NAMAU-Z
Guam 1945

Pacific Navy War Trip
1945

WILLIAM H. DALL
SECTONAL LIBRARY
DIVISION OF MOLLUSKS

50176

Manufactured by
U. S. Government Printing Office
105. Small stream 8,400 yds. 350° from tip of Hagman Hill and 1,100 yds. from Mangala Hill, on east central coast of Saipan, I. Mariana. April 8, 1945.

Portals along beach. Trees 100 yds. from water. Portals abundant.
106. Stream 75, 547° from tip of Kagman Point and 11° from Maniagassel, on east coast of Saipan, Marianas. April 5, 1945

107. Western shore of Lake Susupe, Saipan Island, Marianas. April 4, 1945.
108 March on east shores of Lake Susupe, Saipan Rd., Marianas, Apr. 14, 1945

109 Nickelson Spring, 2000 yds. 98° from Mt. Tapotchau and 136° from Kagman Point, central Saipan Rd., Marianas, Apr. 14, 1945
Natural Bridge Spring, 1/4 mile northwest of Natural Bridge, central Saipan Island, Marianas, Apr. 14, 1945.

Donnay Spring, 1/2 mile northeast of Natural Bridge, central Saipan Island, Marianas, Apr. 14, 1945.

Small stream 3,000 yards bearing 080° from Flores Point, Tanapag Harbor, Saipan Island, Marianas, Apr. 14, 1945.
113 Lily Pond, N.E. end of Tanapag Harbor, Naval Air Base, Saipan Rd., Marianas, April 14, 1945

114 Swamp, 4205 yds N.E. of Tanapag Harbor, western Saipan Rd., Marianas, Apr. 14, 1945
115 Hill near road, 100 yds bearing 38° from Maniagassas Rd. and 35° from Kagman Pt. Saiyan Rd., Marianas.

April 14, 1945

dead land only

116 Grove 1,200 yds bearing 358° from Kagman Rd. and 18° from Maniagassas Rd., northern Saiyan Rd., Marianas. Apr. 14, 1945

Partula and coal sample
117. Hill slope 2000 yds bearing 135° from Flores Point, Tanapag Harbor, Saipan
9th Mariana's, Apr. 14, 1945.
Small land shells under damp rocks and
Partula.

118. Hill slope 2000 yds bearing 130°
from Flores Point, Tanapag Harbor,
Saipan 9th, Marianas. Apr. 15, 1945
Partula. 500 yds northeast of # 117

117a. Partula 200 ft east of 117
Partula

120. Charan Kanoa Beach, western Saipan Rd., Marines. Apr. 15, 1945
Poor marine collecting
Gulley, north end of Magicianne Bay
bearing 292°, 4800 yds from Kagmoth
Pt.; eastern Saikan Rd.; Marianas
Lynmore; Partula
Apr. 16, 1945

Westernmost gulley south side of
Kagman Pt.; eastern Saikan Rd.;
Marianas. Apr. 16, 1945

Partula
Stream dry
123 Highest hill on Kagan Point, eastern Saito Peninsula, Marianas.
 Apr. 16, 1945

124 Top Shrine, bearing 23° 29'00" N from Tsukimi Rd., northern Saito Peninsula, Marianas. Apr. 16, 1945 and 198° from from Marsh Pt.
125. West side of first hill southwest of Mount Anako, northern Saipan, P. I., Marianas, Apr. 16, 1945

Particularly.

126. Northwest trend of Mount Marle, northern Saipan Island, Marianas, Apr. 16, 1945
Cove Beach east corner of beach
Saipan, Toku Mariana
bearing 250° 1400 yds from Tunkin Rd.
Apr. 16, 1945

Beckish, spring bearing 053° 1500 yds from Agingan Point, southwest
Saipan Rd., Marianas, Apr. 17, 1945
No snails
129
Ridge, bearing 021°, 2600 yds. from south peak of Mt. Mattochay, and 102° from Mitchell Point, Saipan Rd., Marianas. Apr. 13, 1945
Portola abundant

130
Marcos Valley, southern Tinian Rd., Marianas. Apr. 18, 1945
Lake Hagoi, northwest Tinian Island, Marianas, Apr. 18, 1945

Bilgo River, 1100 yds upstream from mouth, Agáña Bay area, Guam Island, Marianas, Apr. 21, 1945

Lymnaea (Fasciaria) helvola fl. Common. No other F. W. shells.
Pilgo River, 3000 yds up stream from mouth, Agana Bay area, Guam 9th, Marianas. Apr 21, 1945

No freshwater molluscs. Stream narrow, but healthy, covered with Cerithia reticulata.

March behind Agana, western Guam 9th, Marianas. Apr 22, 1945

Melania (Plotsia) scabra, uncommon.\n
Hymanoea (Fossaria) ohiula, common.\n
River in back of town divided by shell.
Agana Spring, 1/2 mi. S.E. of Agana,
Guam Island, Marianas. Apr. 22, 1945

Melania (Tacebia) granifera very abundant in shady and elephant
bynumea (Forssania oehlie), young
collected.

Stream 005 yds. south of Agana,
Western Guam Rd., Marianas. Apr. 24

Nineteen two species present
frothing stream where flow of
water is swift. Water coolid.
Oblong 100 ft. Collected by
man-made current small dam.
First stream, 600 yds. south of Piti.
Western Guam Rd. (cabri area),
Marianas, Apr. 24.

Melania granifera marianaorum
abundant. 200 ft. north of road.
Stream small. Warm, sluggish.
Collected a slightly pulsating, one species.
Still dark, no upwelling.

Same. Flow a little greater.
Northern branch, 200 yds from mouth of Tenjo River, western Guam, Marianas.
Small quick flow. Air 82.
Cool water, little shade, rock bottom.

*Helania scabra* & *Specimen*.

1 mile up Nano River, near Agat, western Guam, Marianas.
April 24, 1945.
Page River, 1 mile up stream, eastern Guam Sol., Mariana. April 26, 1945

Stream 6 feet wide. Flow swift.

Water cool.

Water Plant, Ylig River, 2 miles up stream, eastern Guam Sol., Mariana. April 26, 1945

Stream fast, 6 feet wide, 6' deep.

Water cool.
143 Bridge over Talisi Stream, 2 miles S.E. of Agat, western Guam, Mariana.

May 1

144 1/2 mile up Imarajan River, S.E. Guam 90th, Marianas

May 2
Swamp 2 1/2 miles S. E. of Agana, central Guam, Mariana.
May 3

1/2 mile north of Dededo, northern Guam.
May 4, 1945
147 2 miles southeast of Depot Field, No. Guam Rd. May 4, 1945

148 5 miles south of Ritidian Pt., northern Guam Rd., Mariana. May 4, 1945
Near Leticia, 2 1/2 miles southeast of Ritidian Pt., northern Guam.
May 6, 1945

[May 8, 1945, was V-E Day]

Lynnaea obtusa only
May 10, 1945
151. Umatac River, behind Umatac Bay, S.W. Guam 9d.
May 10, 1945
Melania & Heritiera abundant

152. La Sa Fua River, 1 mile upstream north of Umatac Bay, S.W. Guam 9d., Marianas
May 10, 1945
Melania & Heritiera abundant
153  Creek on west side of Santa Rosa Peak, n.e. Guam Isl, Marianaas, May 13, 1945
No snails.
Land snail on east peak of Mt.

154  Binaheam River, 1/2 mi. north of Tanuan, eastern Leyte Isd., Philippines, June 9, 1945
Melania and tentoria under bridge.
River clear, 5 feet x 2-3 feet. Bottom from muddy sand.  Tracks and
Synaea abundant out of water along
mud banks under shade of low Bermuda
gro.  
Trebac granifera was found in shallows
3-4 inches.  Water in quiet areas near
banks.  Very common.
22 snails collected.

Water pH 7.5

Synaea
1. 5 bands
2. small brown
3. small brown
4. large, large, indistinguishable
5. very small, yellow wings, small after
6. in very shallow water, large
3-2 x 1 in great abundance

© large, Hedonia

A.  habei
A. thiesii
A. hoffmanni
155. Stream between Tibak and Santa Fe, 3rd bridge west of Palo, Leyte, I., Philippines.
June 10, 1945

156. 1/2 mi. N.W. of Alangalang, roadside, north-central Leyte, I., Philippines.
June 10, 1945

atrest of tall grass, wet mud. S. quinquenana.
157
Creek at Guaco, 3 miles west of Palo, eastern Leyte, Philippines. June 1945.
Water, pH 7.5 to 7.8 (after rain).
Standing on S. quadricornis being made here from day to day.
Lymnaea
Melania
Rils
Gyr(z)ulus
Seguenza
Viridana
“Porcellio”

After no rain for two days at a place 200 feet above the creek from the original place—Temp., 81°F; pH 8.1.

King area S. toward Green area N. toward

158
S. quadricornis
Melania at B. centricodis
Hyas
Vivipara
Ph. 7.8; Temp. 81°F at center.
Gyr(z)ulus
Clavata
Soil: Black sandy
Seguenza
Bingham River 55° x 13°
Lymnaea
Porcellio

Area of Naval Radio Transmitter

158a
Binalaan R.
4 miles ENE of Dagami.

Field
105-157
Unit A B 1
Oe 26, 1945

Marshy
S.W. outskirts of Bargami, near rice field, Leyte Rd., Philippines, June 17, 1945

S. quadridens
Myxas
Lymnaea
Vinifera
Segmentina

San Isidro, 4 miles ENE of Bargami, 2 miles north of Brachae River, Leyte Rd., Philippines, June 17, 1945.

S. quadridens commum
Vinifera
Segmentina, Lymnaea, Melana

Low area in between two grass pastures. pH of water 7.5. Temp. 85°F. Water 1 foot deep, "permanent" stream. Silt, clay, silt. Grass stems 1/2 to 1" out of water. Wet 5.9. in pastures. in clumps, coniferous willows. Ditch area shaded by tree.
Palo River, between 2 bridges at Palo City, Leyte I.I., Philippines.

June 19, 1945

- No Syncera
- 30 foot falls
- 2nd Bridge
- Syncera abundant
- S → N
- 1st Bridge → to Tacloban

Syncera, 5 squadrons that have preserved their shells underwent the following treatment:

1. Stuffed for 12 hours with a small crystal of menthol on the surface of the water.
2. Washed in water.
3. Borax solution for 24 hours.
4. Washed in water.
5. 35% alcohol 1½ hour.
6. 50% " 1 "
7. 70% " 1 "

Any Syncera 5 squadrons that have preserved their shells underwent the following treatment.
163  Guinacone River, bridge near mouth, eastern Leyte, Philippines
       June 18, 1945 (north fork)

Synica
Neritina ziegae L.


164  1 mile west of Barrio of San Antonio, S. W. Samar Is., Philippines.

(a) Small stagnant creek very small. Tall grass, swampy. Earth reddish brown. Only Lymnaea

(b) 100 feet away. Small stream (2 feet by 3'). Temp. 81°F. Current 1-2 knots. pH 8.12. Mucilaginous and gray silt bottom in quiet pools.

(Ansito Tadaboma, Leyte)
165 Oebnay Creek, Binatoc Point, S.W. Samar Is., Philippines. June 21, 1945

Tidal, stagnant - mangroves.
Reef Sargassum on open mud flats.
Landing creek. Black Sargassum, Melampsora
underbrush and lago just beyond high
water mark. Cienotheca common
varied from water edge back 5 feet.

(Opposite Tacloban, Leyte)

A. Philippinica 1650
1651
A. composita 1652
A. blanfordii 1654

166 March 1/2 mile south of Mt. Danglay,
Binatoc Point, S.W. Samar Is.,
Philippines. June 21, 1945

March area draining south about
1 square mile. High grass (4 feet).
Much of the area is soggy with
mangrove carrion walls. Blue gray
mang. Temp of water 85°-90° F. P.E. 8.2
Melamia (not collected) and V. lamia
(size) common. No S. quadrini.

(Opposite Tacloban, Leyte)
167 Layog River at bridge 14 miles of road west of Abuyog, eastern central Leyte, Philippines. June 23, 1945
River 30' x 2', clear fast, rapid, mountainous district.
Melania common. No hens or roosters?
(easter wattershed)

168 Mountain streamlet, 4 miles east of Orubang on Abuyog-Baybay road, central Leyte, Philippines.
Melania
Stream cool, 1 foot x 3', shoal gully. (western wattershed.)
169 North bank of Sagbangaran River, Baybay, Western Leyte Rd., Philippines June 23, 1945

Syncerus, Keratina, Carinoblos, Estramio

A. philippinica 1690

A. boettgeri 1690

170 ¼ mile below south bank of Sagbangaran River in Baybay, Western Leyte Rd., Philippines June 23, 1945

Carinoblos abundant, Keratina, Syncerus under tree, among low grasses.

170a = A. philippinica

170b = A. boettgeri
172. Pauwongan River at bridge, 1 mile east of Gubag, western Leyte, Philippines.

- 2 species of Melania (Tachea) only abundant.

This river is very large and runs directly into the Pagbanganan that flows near Baybay. Water clear, flow fast, temp. 82°F, pH 7.6. Rocks & sand bottom. The river bed is about ½ mile wide, water 30 feet x 3-6 feet. Rocks every ½ mile.

Syncon collected only.

A. philippinica
A. Brettgeri 1730


How country, S. quadrans in swamp grass near rice fields. 15 snails in one pasture, only on the diked edges. To the west 1/2 mile the country rises into the hills & no S. q. found beyond this point.
Stream, 1 mile north of Higabangan, Dagami area, eastern Leyte, 901, Philippines. June 25, 1945

No. 5 g. Melanos. Broth. Viviparous.

Ph 7.4
Temp. 78 °F
Flow swift
3' x 2'
Bank, plaster
Shady
Soft sand & mud

Beach at Tacloban, Leyte
June - 1945
Poor collection. Water dirty
Valley below Kahangan 1/2 S.W. of Talbotan, Leyte S.D., Philippines.
June 28, 1945

Low swampy area with no large permanent creek. A few permanent holes in sedge-grass. Salvinia, Nymphaoides, common. No. S. Q
Ph 8.0 to 7.9, Temp. 80°F. after day
night rain. Average - 84°F. (Black animal Nymphaoides) along edge of the swamp.

A 7 ft deep, surrounded by high grass that were about 1 ft high - all the same size and bodies brownish
Ph 6.0. Temp. @ 1000 86°F.

Virganas abundant in certain permanent mud bottomed holes. Tarpon, greenhead, T cariboo. mud eel and howl at no
snails.
This area not far above the sea level.

San Joaquin Estuary, San Joaquin eastern Leyte S.D., Philippines. 1945
June 29, 1945

Sympa. Cerithidea, red crabs.

Sympa. Cerithidea
A. Boettger
2. A. philippinica
3. A. thoracica
4. A. fabae

5. Abandoned Sympa. also = A. Boettger
6. Sympa. inapp

7. note

Stenothyla etc.

Binhoaan

Red River

San Joaquin

Binhoaan

Nagpa

Tamaanan
179. Less than 1 mile, south of Tanawan and west side of airfield, Leyte, P.I., Philippines. July 4, 1945

Sermylea (only A. bottgeri Abt.)
Sermylea on mud flats out in the sun, half burrowed in mud green algae.
Neritina (small species) very abundant with Sermylea.

179A: A. bottgeri

179B: A. blanfordii


Myxaea melanica
Stenoptera one 2 feet west side of bridge.
181 Labrador River estuary, Delfz area, eastern Leyte, 70, Philippines. July 4, 1945
Enter area with fire ants, oily water, nematode, 2 fec. Symucus, Melampus. No. 5 q. 1 mi. 5 in fresh water swamps.

182 1. mile north of Buranan, Leyte 90, Philippines.
S. quadrata abundant near road in running streams draining large area of rice fields. Found at base of tall thick cane like grass. No. 5 q. in rice paddies. PH. 7.2. Temp. 81° F.
183 Brook, 1/2 mile S.E. of Nakuru, western Samar, July 7, 1945.

184 Stream just east of Nakuru, western Samar, July 7, 1945.

Grains into rice fields & grass sedges. Helianthus, Stemmelania, Gymnadenia, large land shell.
185  Beach at Santa Margarita, western Samar St., Philippines. July 7, 1945

186  Nadang Valley, 2.1 miles N.E. of Oquichelos on Route #1, N.W. Samar. July 8.
O. (5) quadrats  edge of rice fields
Ph 8.1, Temp. 84.4°F  H. 119.86%  R.B. 237, Unns. from nearly river. July 16.
187 Creek at Maguabag, 1/2 mile from Oquendo, Reville on Route 1, N.W. Samar
Philippines, July 8, 1945

188 2 miles N.N.E. of Inorague, western Samar, N.T., Philippines
July 8, 1945


(2 streams A & B 300 yds apart)
191 West outskirts of Candara, N.W. Samar Isd. Philippines July 10, 1945
O. (S.) quadrasi. 7h 80 to 8h 10. Temp. 85.8 F.
A. center of field under tree. Small field, little drainage.
B. west side of field, running water.

192 2 miles south of Candara, N.W. Samar Isd. Philippines July 10, 1945
S. quadrasi. economy nearby in another small pool but no S. g.
193 


194 

River Valley behind Santa Margarita, N.W., Samar, Soc. Philippines, July 11, 1945. Melania & Pelo only. Also Symaena

1st. examined 4 mg. 3/100 for Schisto.

A. Filipinica
A. Truncatella Betty.

N. tinea

A. philippinica


A. philippinica
Estuary of Catarman, N. Samar
S. S. Macon.

1976 A. Philippinica
A. Cretageri

1978 Cabulaboan Valley, 3 miles
west of Bajo, Labang District
N. E. Samar 9d., Philippine., July 13
S. Squadraded on rim of Valley.
July 17.
(Catalbic River Drainage)
199 Lagona Island, N.E. Samar Ily, Philiippines, July 17, 1945

200 Malijao, Route #1, south of Catarman, N. Samar Ily, Phililippines, July 19, 1945. (S. quadrant west side of road.)
201  Cervantes, 20 km south of Catarman, central N.W. Samar, 9th, Philippines. July 19, 1945
    Large land snails only.

202  Trinidad, 4 miles west of Calbayog, N.W. Samar, 9th, Philippines. July 19, 1945
    Syncem

A. philippinica
203 1/2 mile west of Catapungan, N. Samar 90.1, Philippines. July 18, 1945.
S. quadraeri

Melania atrolineata
Hunting 1/2 mile south, near Sea R.F.W. x name

204a Purchased in Catbalogan, Cyphona斯塔 philippinum from San Antonio, Capul 90.1, N.W. Samar.
Large Cassinaria from Capul 90.1.
205 north outskirts of Santa Fe, N.E. Leyte
Philippines: July 24, 1945

Squadron
Temp. 79° E. W. 74

July 31... Cruised Indianola north east of Leyte
980 feet because report was not relayed to
headquarters.

206 5 km. N.W. of Bajay, south west
Samar Is. Philippines
Aug. 2, 1945
no S.I.Q. in this area
207 San Miguel, northern Leyte Rd.,
Philippines, Aug. 3, 1945
Palo
W. S. Q. in the area

208 1/2 mile north of Palo, N. E. Leyte Rd.,
Philippines, Aug. 4, 1945

Temp 99°F!
very little water, not enough

Hill

Station

W. S. Q. in this area
209 Tugtas Barrio, 2½ miles east of Tacloban, N.E. Leyte 70, Philippines. August 6, 1945

2090 Tanching from wide shallow, rocky, pebble bottom river (Tugtan) Tanch 100° 35' 20.7' from river bottom.

2095 Melanoides from small creek 100 feet from river running into river.

Red from Col. Wright from Mindanao.


Malagbalay 35 mi. S.E. of Cagayan, north central Mindanao.

Calarig Barrio 3 km. East of Linao.

Calantaguan Valley, S.E. of Cagayan, Danongan 3 mi. S.E. of southern tip of Lake Lanao. Mindanao.

Tantila, N.D. Basse, Mindanao.

210 Lake Bito (Danao), Albay area, eastern Leyte 70, Philippines. August 14, 1945.

Pila, Melanoides, melanox, Segmentina.
211 Abuyog, eastern Leyte Rd., Phil. Is.
August 14, 1945

- species of *Stenothyra*
- *Sympa a. boettgeri*; *A. manfordi*
- *Cerithidea*
- wi 5 q. in area.
- VJ day out here.

212 River at Bison, Leyte Is, Philippines.
Aug 16.

1. *Tarchisia*
2. *Melania*
Cayman at DWT, 5 mi. n.w. Tacloban, Leyte Isl., Philippines, Aug. 20, 1945

Stenothyra

Stream, 1/2 mile, s.w. of Jaro, Leyte Valley, Leyte Isl., P.I., Aug. 27, 1945

No S. q.

Brotia, viridans, melanio

A some had crawled up on rocks out of water.
215 Calbigongan River, Sara, Leyte Valley, Leyte, Phillipines, August 27, 1945

216 Estranjoo marsh behind Surigao, N.E. Mindanao Island, Phillipines Aug. 29, 1945

(#1)

(a) Large Stenophya, Gerithopa, Melania, Vivitans swimming far inland. 1st lot Small pelagic food insects chalk white fort of whiteness.
217. Surigao River, 2 mi south of Surigao, N.E. Mindanao, Philippines.
   Aug. 29, 1945.

Turbia abundant, River 150 ft. across.
10-3 feet deep, clear flow, mud and sand
bottom. Grass banks 5 feet high.
Not country for S.Q.

218. Magatayan River, 2 miles north of
   Tubod, lake. Negros Occidental, N.E.

Turbia, Vitticola.
219. Between Tubod and Alagria (km past 45) Lake Mainit drainage, N.E. Mindanao 31st Philippine Aug. 31, 1945

Belgria, Bethynia in small, fast flowing creek. Squatdai in flooded grass slope area below road.

220. 1 mile N.E. of Mainit, Lake Mainit drainage, N.E. Mindanao Aug. 31, 1945

Squatdai no roots in slow flowing allthes.
721  Maine, north end of Lake Maine
46  N.E. Mindanao Dept., Philippines, Aug 3, 45

Vivipara, Melania, Unio, Streblospiras

722  Del Monte Camp, south of Cagayan
47  North central Mindanao, Philippines, Sept 5, 1945

Small gravel beach, from sides of
mud rock in small running work.
323. Malaybalay Barrio, Central Mindanao Dist., Philippines, Sept 6, 45

Gallina, Major Bethune.

324. Bago, Macajalar Bay, Northern Mindanao Dist., Philippines, Sept 10, 45

Hunting, 1st lunch, 1st swim
225 9.25 mi. s.e. of Dannebord, Minn. Sept. 11, 1945

Marine drift

226 2.1 mi. s.e. of Dannebord, Minn. Sept. 11, 1945

5 grass surf ingest 6" water in ditch 3 feet deep, 2 ft. wide, along flow from road to lakeshore.

Viresens
277 Dunsden City, Lake Kanac, Mindanao Is., Philippines, Sept 14, 45

wife, niece, Belina, "Bethune"

278 3 miles S.E. of Dunsden City, Mindanao Is., Philippines, Sept 14, 45

one mi. from Lake Kanac
229 Dakitan Bay, N.W. Mindanao Isl. Philippines, Sept. 12, 1943

Tetraonis, Trachos, botrornis, lepidus, Pupalis, asem, phinam, hillock

230 San Remon, 17 km. N.W. of Zambranga, Mindanao, Philippines

Statl, ey.

Beach drift.


5 squads in proven area ½ mi. north of Barrio; 5 for barrio north of ½ mi.

91 adults conveyed, 1 found defective for Soluna bacinae.

=1% maid. infected.
233 2 km north of Kananga, W. Leyte Rd.
Philippines, Sept. 17, 1945
Treaths

234 4 km south of Kananga, W. Leyte Rd.
Philippines, Sept. 17, 1945
Drift & live Anochidium on sandbars in beach at low tide. Semma.

F.W. in creek behind town. Turtles from children.
237 Sanine, ½ mile N.E. of Boracabig, Western Leyte, Sab., Philippine, Sept. 12.

(behind Phil)

238 Matagob (Dili), Western Leyte, P.I., Philippine, Sept. 19, 1943

Tachius Struelingii from river. Myxas from pool in forest.
239 Colasian burial, Carigara Bay, north Leyte, Philippines, Sept. 19, 1945

Stenothyra from small pool, intertidal area of mangrove beach.

240 Balud, 1 mi. east of Caboocan, Carigara Bay, north Leyte, Philippines, Sept. 19, 1945

Echinus stimpsoni on the road among Nipa palm. Brackish water.


S.g. abundant in creek

Area of "double experiment" localities.
B-43. Brook, S.E. of Bagabag Pass.
9.3 mi. N.W. of Tacloban, Leyte 90th
Philippines. Oct. 5, 1945

Cortypa melanica in ting manga.
Brook 1" x 3". Rocky bottom. Slaked.
Subject to flash floods.

dactylus fid. J. Bequaert

244 Guinan, S.E. Samar 9th
Philippines

Oct. 13, 1945
245 Tubabao Island, Guimaras, Panay, S.E. Samar Rd., Philippines

+ Oct. 15, 1945

Syncera
A. crocicosta

246 S.E. side of 3rd peak 1600 yds north of Mt. Alifan, western Guam Rd., Mariana
Dec. 23, 1945

Partula salifana G. & C. 
fragilis gilba
radiolata

Area 1 = salifana

Area 2 = salifana

Area 3 = monsalifana

Area 4 = salifana

(see U.S.A.F.C.P.A. April 1944 special grid - Agat Bay, Island of Guam)
247 600 yds due east of 2nd peak 18900 yds
south of Mt. Alifan, western Guam 3d,
Marianas. Oct. 23, 1945

Area 2 (see 246)

248 100 yds due east of 1st peak 8600 yds,
due north of Mt. Alifan, western

Area 3 (see 246)
S.W. slope of 2nd peak 1600 yrs.

south of Mt. Alifan, Guam 9th, Mariana.
Oct. 23, 1945

200 feet S.S.W. of Mt. Alifan Peak

As many as 15 P. salifans found on

Pandanus bush

fragile very common

Colony

100 feet by 300 feet scattered individuals

no gibba or radiolata.
East side of
2.
251. 2nd minor rising, 400 yds south of Mt. Alifan Peak, western Guam, Oct. 24.
Hybridization occurring?

East side of 1st large peak south of Mt. Alifan Peak, western Guam, Oct. 24, 1945.
Bough revetment # 23.
253 Thicket (200 ft. alt) 3 1/2 miles south of Tenjo Mt. and bearing 120°.
2 1/8 miles from Mt. Akfan peak.


Small fry only.
255 Ridge 900 yds due north of Almagoa Mt.
500 ft alt, western Grai Mud, Madsen
Oct. 26, 1945

P. califana x gibba
(aggregate) isolated 6 trees

Mt. 550' and its peak

25 A

256 Ridge 1000 yds due north of Almagoa Mt. 450 ft alt. Western Grai Mud, Madsen. Oct. 26, 1945

P. califana x gibba
1 tree

olive 5mm

+ 3 aggregates

Almagoa Mt.