

Crust 6

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 206 Date Jan. 26, 1965 Time noon - 2:00 PM Field No. _____

Lat. 06° 33' N Long. 115° 51' E Chart _____

Locality About 27 miles off NE Borneo, dipnetted
from ship underway

Clumps of drifting sargassum

seriola

Histrio

Petraites (Clint)

Abudofduf

Balistids

preserved

pelagic crabs

carid prawns

Lepas sp.

Collector Fell et al Recorder D.M. Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 219 Date Feb. 2nd '65 Time 2310 hrs. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya lagoon anchorage. Plankton "oblique" haul over side of Te Vega in fairly strong wind. 30 mins

The richest haul to date - predominantly Crustacean groups.

X Calanoid copepods dominant
X Lucifer sp.
X Carid larvae - poss^y some dipterids.
X Mysid " , juveniles & adults (with brood)
X Chaetognaths
X penaeids - mysis stage + later ones & juveniles

Ruphaeids - a few, mainly larval stages

Radiolarians - numerous

Larvaceae "

X Crabs megalopas - zoea & megalopas stages of Anomurans

fish larvae - including 1 juvenile prae-fish

" eggs

Forams

Hydromedusae - a few

Amphipods

doliolids (a few)

Panulirid phyllosomas - > than previous station

Gastropods - a few juvenile stages of diff^e spp.

polychaete larvae - 2

pteropods - quite a number; a smaller sp. than Creseis

Ceratium sp. (a few) + some diatoms

Collector McWilliam Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 220 Date Feb 3rd '65 Time 1900 hrs. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality N. end of Pulau Gaya lagoon. 10 min surface plankton tow in 15 knot wind. Much bioluminescence.

Copepods - (incl. 1 Copilia mirabilis)

Lucifer sp. (adults)

Chaetognaths

Sargostid larvae

Crab zoeae & metazoeae abundant

Canid larvae

Mysid " + a few adults } less than Feb 2nd haul.

Pteropods - (Creseis acicula?)

" pseudothecosomatus types. (Peractis bispinosa?)

+ 1 other sp.

Cirripede nauplii (a few)

Radiolarians quite numerous (yellow & red types)

Eradme sp - quite a number

Distracods

Leptomedusae - several.

Heteropods - 3 - Atlantia helicinaoides?

Amphipods - a few

Ophiopluteus larvae - "

Veligers - 3 or so.

Calicophora - a few.

Sample in general much poorer in nos. than Sta. 219. Mysids &

Chaetognaths seem to be fading out a bit.

Collector McWilliam & Kuhn Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 221 Date Feb. 3rd '65 Time 2310 hrs Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya Lagoon anchorage - surface haul of 30 mins. over side of Te Vega - (in about 2 f.)

dominant
grps. { Copepods
Chaetognaths (sev. diff't spp.)
Lucifer sp. (many adults in berry)
Larvaceae
Euphausiids (metamorphosis, calyptopsis & furcilia stages - possibly 2 spp. present)
Radiolarians
Pteropods - juveniles

Crab protozoa, metazoa & mycetozoa

Amphipods

Carid larvae

mysids (fewer in nos. than Sta 219)

Salps

doliolids + 2 other spp.

pteropods - a very few (Cresia + some pseudothecosomatous types)

ophsopluteus larvae - a few.

forams — " "

1 Cassiopea ephyra

1 heteropod

Fish eggs & larvae

Best haul to date for euphausiids - 1 sp. definitely Pseudoeuphausia latifrons

Collector P. McWilliam Recorder P. McWilliam

Fish

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 222 Date 5 Feb. 1965 Time 1130 Field No. _____

Lat. _____ Long. _____ Chart HO 2116

Locality Mantabuan Island, north of passage between Gaya and Bohaydulong, ~~But~~ Danvel Bay, east coast of Borneo. 200' beach seine on sandy flat area along N. side of island. 0-4'. Hard bottom with scattered Thalassia and an occasional rock or anemone.

Clupeidae 1

Atherinidae 1

Hemiramphidae 1

Gerridae 1

Pomacentridae 2

Labridae 3

Eleotridae 1

Parapercidae 1

Bothidae 1

Congiopodidae 1

Callionymidae 1

Balistidae 2

Tetrodontidae 2

Transforming ^{acanthorjd} chaetodont 1

unknown percoid 1

15 families 20 species

Collector Te Vega students

Recorder D Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 223 Date 6 Feb. 1965 Time 10:30 PM Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Sand - coral area off Pulau Tatang, Darvel Bay,
east end of Borneo. About 30'

1 parapercid - on sand bottom

1 syngnathid

1 emmelichthyid - schooling over coral heads

Collector Davis Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 224 Date Feb 4d Time 2000 hrs Field No. _____

Lat. _____ Long. _____ Chart _____

Locality E. end of Pulau Gaya Lagoon, North Borneo. 10 min. surface tow

- dominant groups* {
- Copepods
 - Lucifer sp
 - Sagitta sp.
 - Mysid juveniles & adults - (many with brood)
 - Carids - juveniles & adults
 - Crab zoea & megalopa
 - Euphausiid - calyptaris & Puerilia stages & a few adults of P. latifrons
 - pteropods - Creseis sp.
 - fish eggs
 - 2 Squilla larvae & 1 postlarva
 - 1 Panulirus phyllosoma

Collector McWILLIAM Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 225 Date Feb. 5th '65 Time 0015 hrs. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya Lagoon anchorage. N. Borneo. 30 min. surface plankton haul in current over side of Te Vega. A fairly rich haul.

Dominant Groups { Copepods
Sagitta sp
Carid larvae & adults
Lucifer sp.
Larvacea
Penaeids - mysis stage
Crab megalopa
Euphausiids - furcilia, juveniles & a few adults of P. latifrons

plus a few of the following:-

Calycephora

Amphipods

Leptomedusae

Mysid adults

pteropods - Cresers sp. + other spp.

Fish postlarval stages

1 young squid

1 Squilla larva

Collector McWILLIAM Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 226 Date 5th Feb. '65 Time 2000 hrs
~~2015 hrs~~ Field No. _____

Lat. _____ Long. _____ Chart _____

Locality E. end of Putau Gage lagoon N. BORNEO. 10 min. surface tow

- Aboriginal groups
- Copepods
 - Sagitta spp.
 - Lucifer sp. (on the decline)
 - pteropods - most abundant to date. Creseis sp + sev. other spp.
 - cypranssiids - Teretia stages abundant, Calyptopsis & juveniles + a few adults of Pseudocypronia latifrons
 - mysids - later larval stages + adults
 - carids - larvae & adults
 - Crab metazoa & megalopa
 - Cladocerans
 - molluscs - a few juveniles
 - Calyptophora - a few - Muggaia sp.
 - amphipods " "
 - Forams & Radiolarians - a few.
 - 1 Platyhelminth
 - 2 medusae - ? Eirene sp.
 - 2 Squilla - later larval stages
 - 1 phyllosoma Pomutius

A very rich haul.

Collector KAHAN Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 227 Date FEB 6th '65 Time 0045 hrs. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya lagoon anchorage - net trailed in current over side of Te Vega, 30 min.

- Chromat
Groups
- Copepods
 - Larvacea
 - Sagitta sp
 - Carid larvae
 - euphausiids - metanauplius → early furcilia stages of *P. latifrons*
 - crab larvae
 - Lucifer sp - falling off greatly in numbers
 - pteropods - a few
 - Calyptophora - a few
 - 1 early stage Squilla larva
 - amphipods - a few
 - polychaetes - just a few larval stages

Collector McWilliam Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 228 Date 6th Feb '65 Time 2000hrs Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Putau Gaya N. Borneo, 10 min surface tow between Te Vega & Bohay ulatong
Is. Eastern end of lagoon.

Collector McWILLIAM & FELL Recorder _____

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 229 Date FEB. 6th '65 Time 2300 hrs. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gayan anchorage - N. BORNEO. Net left 30mins. under night light
abt. 1 fathom, below surface:

Collector McWILLIAM Recorder _____

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 230 Date 6 Feb. 1965 Time 2100-0030 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya anchorage, Night light.

squid

halfbeaks

atherinids

round herring two species? many dipped from mill

flying fish

shrimps

Collector Cohen Davis Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 231 Date 7 Feb. 1965 Time _____ Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Coral-sand area off Tatagan Island, Darvel Bay, Eastern Borneo, 20'-30'

Alcyonarian

Goby

shrimp

Collector Davis Recorder Cohen

**TE VEGA EXPEDITIONS
STANFORD UNIVERSITY**

Sta. No. 232 Date 9 FEB 65 Time _____ Field No. _____

Lat. _____ Long. _____ Chart _____

Locality _____

Collector _____ Recorder _____

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 233 Date 24 Feb 1965 Time 2200-0100 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Nightlight off Te Vega, docked at Government Wharf,
Rabaul, New Britain

clupeidae

Atherinidae

puffers

larval flatfish

larval lizard fish

Collector D Cohen Recorder D Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 234 Date Feb 25, 1965 Time 1200 - 1445 Field No. _____

Lat. 04° 14 S Long. 152° 26 E Chart British Admiralty Ch. 1754

Locality Keraword Island, Duke of York Group in St. George's Channel
between New Britain and New Ireland

Water clear, mangroves along shore, firm bottom with some silt.
sandy off mangroves, Thalassia about 4' wide, sandy-coral
area, then coral with broad sand valleys amongst coral. Fish
collected between 3' and 25'.

- | | |
|---------------------------------|-----------------------------|
| · Clupeidae 1 | · Syngnathidae 1 |
| · Moringuidae 1 | · Siganidae 3 |
| · Muraenidae 3 or 4? | · Chaetodontidae 3 |
| · eel 1 | · Acanthuridae 3 |
| · Hemiramphidae 1 | · Labridae 4 |
| · Belontiidae 1 | · Blenniidae 4 |
| · Atherinidae 2 | · Balistidae 2 |
| · Brotulidae 1 | · Scorpaenidae 3 |
| · Carangidae 1 | · Callionymidae 3 |
| · Mullidae 2 | · Platycephalidae 1 |
| · Holocentridae 5 | · Eleotridae 7 |
| · Lethrinidae 1 | · Gobiidae 6 |
| · Sparidae 1 | · <u>Gobiesocidae 2</u> |
| · Synodontidae 1 | about 31 fam., ; 94 species |
| · Pomacentridae 8 10 | |
| · Lutjanidae 1 | |
| · Apogonidae 12 | |
| · Serranidae 7 | |

Collector Arch, Cohen, Davis, Schuierer Recorder _____

THE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 207 Date JAN 27th 1965 Time 1300 hrs Field No. _____

Lat. 07° 11' N Long. 115° 10' E Chart _____

Locality 5-6 miles south of Cagayan Sulu Is in Sulu Sea.

10 minute surface haul with $\frac{1}{2}$ meter net.

V. rich haul dominated by Copepods of Calanoid type + some
? Sapphirina types.

Main
groups
in
nos.

Chaetognaths

Eggs - of which sexual form (i.e. embryos) of Thalia demarettii identified

Ostracods

Cladocerans - ? Evadne

Isopods - a few

Decapod larva - crab zoea & megalopa

Forams - yellow

Polychaetes - sev. different spp. Mostly hermit types.

also larval forms - Prototrochs & trochophores

Radiolarians - yellow & bright crimson forms

Molluscan larvae & young stages

Pteropods

Heteropods - a few

1 Euphausiid juvenile - ? Euphausia + sev. larval stages.

Larvacea - a few

Collector McWilliam et al Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 208 Date Jun. 27th 1965 Time 2100 hrs. Field No. _____

Lat. 06° 30' N Long. 118° 29' E Chart _____

Locality 4 miles off Mambentanhan Is., Sulu Sea

a) Night surface plankton haul \bar{c} $\frac{1}{2}$ meter net for 50 minutes.

Copepods predominate - Calanoid & some Cyclopoids, ? Sapphirinae

Chaetognaths

Hydromedusae

Siphonophores

Salps - Thalia demouirata & others

Larvaceae

Doliolids

Euphausiid juveniles - ? Euphausia

Forams

Ostracods

Cladocerans - ? Evadne

Ctenophores - a few, but broken in net.

b) The same but hauled near night light for 30 minutes

immediately after (a). Contained many invertebrate larval forms especially of Polychaetes - including Tereteletid larvae

Copepods

Pteropods (Chione larvae)

Ostracods

Siphonophores

Sergestids (? Lucifer)

Radiolarians (many more cf. a))

Decapod larvae - Carids & Crabs

Mysids, larval & adults & brood

Hydromedusae - adults & dev^g forms

Cladocerans

Larvacea & Salps

1 Alpheid shrimp

Collector McWILLIAM et al.

Recorder P. McWILLIAM

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 209 Date 27 Jan. 1965 Time 9:30 PM - 3:00 AM Field No. _____

Lat. approx. 6°30'N Long. approx. 118°45'E Chart _____

Locality N. of Sandakan, Borneo. ship hove to at night over about
30 fm. - nightlight and dipnets

Euleptorampus

small half beak

large, dark-winged flying fish

small, 4-winged " "

clear-winged flying fish

saurys

adolescent stromateoids or carangids

1, barbeled flying fish

1, transforming mullid

- preserved

Collector Te Vega students Recorder DM Emlen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 210 Date 28 Jan. 1965 Time 8:00 P.M. - 10: P.M. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Anchored in harbor of Sandakan, Borneo

Atherinids - commonest fish seen in harbor
halfbeaks - red tipped beaks } - preserved

Collector _____ Recorder Wm Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 211 Date Jan 29th 1965 Time _____ Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Sandakan Harbour, Sabah, Borneo.

Vertical, 5 meter net, 30 minutes near bottom (about 4 1/2 fathoms)

" " " " " surface.

Noctiluca scintillans in great abundance

+ Numerous Diatoms: Chaetoceros spp. abt 12 species

Sketelonema

Thalassiothrix

Coscinodiscus

Polychaete larvae

Echinoderm

Caprellid

Hydromedusae

Ctenophores

Barnacle nauplii

Molluscs - small young stages + a few veligers

Copepods

Anomura zoeae

Tintinnids - a few species

Rad. planarians

Collector McWilliam et Kohan Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 212 Date 29 Jan. 1965 Time 10 AM - 1 P.M. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Mangrove swamps on island opposite Sandakan, Borneo

Brackish

Gobies with spots, look like cyprinodonts

on very muddy inner side of island caught by sweeping

Tetradon - Yellow with black spots in water, in shallow tide pools

in water less than foot deep

Halfbeak - one cruising in channel

Plotosids - in small mud pond on sandy side of island

Periophthalmus - everywhere

Goby #2

Eleotrid

Phallostethids #1 and #2

one short, on sandy side of island

2 longer on muddy side

preserved - 4 Sp. large gastropods

Collector Cohen, Davis, Schuierer Recorder D. Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 213 Date Feb 1, 1965 Time 0930-1340 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya, Borneo (eastern end, in Darvel Bay)

Inside lagoon at base of high basalt cliffs. Band of coral about
50-70
~~100~~ ft. wide running parallel to shore. Dropoff at about 6'-10'.

2 qts rotenone.

Clupeidae 1 Platacidae 1

Plotosidae 2 Siganidae 1

Muraenidae 3 Chaetodontidae 5

Aeoliscidae 1 Balistidae 1

Syngnathidae 2 Canthogasteridae 1

Atherinidae 1 approx 75 species

Brotulidae 1 + Callionymidae 1 = 76

Leiognathidae 1

Serranidae 8

Apogonidae 16

Pomacentridae 7 (incl. 2 Amphiprion)

Lethrinidae 1

Sparidae 1

Carangidae 1

Holocentridae 1

Labridae 2

Blenniidae 4

Gobiidae 11

Gobiosocidae 1

Scorpaenidae 1

Collector Te Vega students Recorder A. M. Chen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 214 Date Feb 15th '65 Time 0020 hrs. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya lagoon anchorage - vertical net over stern of TE VEGA

Predominantly Crustacean + Larvaceae

Copepods

Sergestids

Carid larvae

Penaeid " ?

Larvaceae

Chaetognaths

Euphausiids - juveniles - (preserved separately)

Mysid larvae & juveniles

Hydromedusae

Doliolids (a few)

Siphonophores ..

Anomuran zoea & megalops

Fish eggs & larvae

also a few late Polychaete larval forms, a few Forams
and Radiolarians

} Main
groups

Collector P McWILLIAM Recorder P. McWILLIAM

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 215 Date Feb. 18. 1965 Time 1900hrs Field No. _____

Lat. _____ Long. _____ Chart _____

Locality N.E. end Pulau Gaya lagoon - 10 min. Surface plankton haul
behind whaler, running westward to anchorage.

Very rich haul - predominantly Sergestids (Lucifer sp.)
& Copepods

Amphipods - a great number

Mysid larvae

Carid "

Crab zoeae

Fish larvae

Chaetognaths

Cladocerans

Polychaete larvae - a few.

Echidna - muraenid eel

Pelamis

Phyllodoce

} disinfect.
- under
night light

Collector P. McWilliam Recorder P. McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 216 Date Feb. 2, 1965 Time 1100 - 1400 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Bohidulong (island next to Pulau Gaya), Darvel Bay, east end of Borneo. Coral reef on eastern (outer) side of island, Reef exposed at low tide. Poison (2 gals.) spread on bottom at 5' - 12'. Fairly sharp dropoff at reef edge.

<u>Clupeidae</u>	<u>2</u>	<u>Scaridae</u>	<u>5</u>
<u>Plotosidae</u>	<u>3</u>	<u>Balistidae</u>	<u>2</u>
<u>Muraenidae</u>	<u>4</u>	<u>Callionymidae</u>	<u>1</u>
<u>Syngnathidae</u>	<u>2</u>	<u>Soleidae</u>	<u>1</u>
<u>Brotulidae</u>	<u>1</u>	<u>Canthigasteridae</u>	<u>1</u>
<u>Serranidae</u>	<u>14</u>		
<u>Apogonidae</u>	<u>11</u>	<u>25 families</u>	<u>92 species</u>
<u>Pomacentridae</u>	<u>12</u>		
<u>Sparidae</u>	<u>1</u>		
<u>Holocentridae</u>	<u>3</u>		
<u>Labridae</u>	<u>8</u>		
<u>Blenniidae</u>	<u>3</u>		
<u>Gobiidae</u>	<u>3</u>		
<u>Gobieosocidae</u>	<u>1</u>		
<u>Scorpaenidae</u>	<u>3</u>		
<u>Lutjanidae</u>	<u>1</u>		
<u>Platacidae</u>	<u>1</u>		
<u>Histiopteridae</u>	<u>1</u>		
<u>Chaetodontidae</u>	<u>5</u>		
<u>Acanthuridae</u>	<u>3</u>		

Collector Te Vega cruise #6 Recorder AM Chen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 217 Date Feb. 2nd '65 Time 1900 hrs. Field No. _____

Lat. _____ Long. _____ Chart _____

Locality N.E. end of Pulau Gaya Lagoon - 10 min. surface plankton haul
approx same position as Sta. 215.

Very rich haul of Crustacean larval and juvenile forms + other
groups. Very bioluminescent:

Copepoda

Mysids - larvae & juveniles

Carids

Dominant
groups

Pteropods - Cresis sp.

Sergestids - (Lucifer sp.)

Crab zoeae & megalopae

Penaeid larvae

Chaetognaths

Larvacean

Cladocerans

Amphipods

Fish larvae (3 diff. spp.)

" eggs

Echinopluteus - 2

2 phyllosomas of Panulirus

1 young portunid crab.

Collector

McWilliam

Recorder

P. Maden

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 218 Date 3 Feb. 1965 Time 10:30-1330 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Pulau Gaya, Darvel Bay, east end of Borneo.

West side of island "lagoon" area next to shore. Sand with isolated coral and algae patches. Cobble close to shore. About half of area collected exposed by falling tide. Poison drifted on to coral, 2 qts rotenone used. Released on bottom at depth of 2'-3'.

* <u>Plotosidae 2</u>	<u>Gobiidae 10</u>
<u>Syngnathidae 1</u>	<u>Callionymidae 1</u>
<u>Belontiidae 1</u>	<u>Blenniidae 2</u>
<u>Muraenidae 2</u>	<u>Tripterygiidae 1</u>
<u>Moringuidae 1</u>	* <u>Labridae 8 (both)</u>
<u>Ophichthyidae 1</u>	* <u>Chaetodontidae 1</u>
<u>Syndontidae 1</u>	<u>Sparidae 4</u>
<u>Atherinidae 1</u>	<u>Acanthuridae 1</u>
<u>Mullidae 2</u>	<u>Balistidae 2</u>
* <u>Apogonidae 6 (both)</u>	<u>Monacanthidae 1</u>
<u>Pomacentridae 4</u>	<u>Canthigasteridae 1</u>
<u>Serranidae 4</u>	<u>Congrogadidae 1</u>
<u>Lethrinidae 1</u>	<hr/>
<u>Gerridae 1</u>	<u>29 families, 65 species</u>
<u>"Lutjanidae" 2</u>	<u>about 35 not collected previously</u>
<u>Siganidae 1</u>	<u>in coral environments</u>
<u>Scorpaenidae 1</u>	

* = coral fishes

Collector Cohen, Schuierer Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 235 Date Feb. 27, 1965 Time 1300-1630 Field No. _____

Lat. 04°14'05"S Long. 152°10'25"E Chart 110 Blanche Bay 2972

Locality Dawapia Rocks (Beehives) Simpson Harbor, Rabaul, New Britain. Volcanic rocks about 50 yds. apart with shallow ridge between, steep dropoff at edges of ridge and around islands. Ridge with coral rubble and scattered volcanic rocks. Coral growing on lava rock. Steep slopes of sandy sediment. Fish collected at 2'-45'

Clupeidae 1

Mullidae 1

Synodontidae 2

Labridae 5

Muraenidae 3

Scaridae 1

Moringuidae 1

Chaetodontidae 6

other eels 3

Acanthuridae 3

Brotulidae 2

Monacanthidae 1

Syngnathidae 2

Balistidae 1

Carapidae 1

Aluteridae 1

Holocentridae 3

Sparidae 1

Serranidae 11

Canthigasteridae 1

Apogonidae 9

Gobiidae 4

Pomacentridae 12

Eleotridae 6

Lutjanidae 3

Scorpaenidae 4

Lethrinidae 1

Callionymidae 2

? Scolopsidae 1

Pempheridae 1

Cirritidae 1

Emmelichthyidae 2

Blenniidae 6

Collector Davis, Cohen, Fell Schuieren Recorder _____

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 236 Date Feb 28, 1965 Time 1100-1500 Field No. _____

Lat. 4°13'14" S Long. 152°09'06" E Chart MO BLANCHE BAY 2972

Locality Sunken Wreck, near MALAGUAN Mission, Simpson HARBOR, Rabaul, New Britain. 3'-6' near shore clear water, sand bottom. Scattered coral growing on wreck (~~trunk~~ ~~stiff~~),

- | | |
|-------------------|--------------------|
| Clupeidae 1 | Siganidae 1 |
| Moringuidae 1 | Scaridae 1 |
| Muraenidae 1 | Labridae 2 |
| Syngnathidae 2 | Blenniidae 6 |
| Synodontidae 1 | Chaetodontidae 5 |
| Aeoliscidae 1 | Acanthuridae 2 |
| Atherinidae 1 | Balistidae 1 |
| Mullidae 2 | Canthigasteridae 1 |
| Fistulariidae 1 | Gobiidae 7 |
| Holocentridae 3 | Eleotridae 2 + |
| Serranidae 5 | Scorpaenidae 4 |
| Lutjanidae 8 | Caracanthidae 1 |
| Pomacentridae 6 | Soleidae 1 |
| Apogonidae 8 | Antennariidae 1 |
| Carangidae 1 | |
| Sparidae 1 | |
| Cirridae 2 | |
| Lethrinidae 2 | |
| Emmelichthyidae 2 | |
| Sphyraenidae 1 | |

Collector McFadden, Davis, Schuier, Cohen, Recorder D. Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 237 Date 1 March, 1969 Time 1100 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Near Nanga, Gazelle Peninsula, New Britain, clear stream
about 1' deep, near mouth.

several ambassids, gobioids, 1 very small eel

Collector Cohen, Davis, Schuierer Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 238 Date 5 March, 1965 Time 1200-1300 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Dawapia Rocks (beehives), Near entrance to Simpson Harbor,
Robaul, New Britain.

Poison squirted in small caves and under rocky-coral ledges at
about 50' along dropoff.

Collector Cohen, Davis Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 239 Date 6 March, 1965 Time _____ Field No. _____

Lat. 05° 10' S Long. 153° 41' E Chart _____

Locality Between Cape St. George, New Britain and Buka Island
started wire out 0858 Tucker Trawl, calm sea

wire out 0915 hrs 1694m. ~~1694m~~ angle varied from
33° to 63° while fishing. Maximum calculated fishing
depth of 1423m.

start in 1044 hrs

net in 1124

Fish: Melamphaidae 2 or 3 spp

Cyathone " " "

Bathypelagic eel

Myctophids, young & adults, 2 or 3 spp.

Chaulioides sp. young & adult

Sternoptix - 2 spp. including Polyipnus

Nomus (possibly with Physalia taken near surface)

Inverts: "Red" & "half-red" Sergestids + 1 deep sea squid.

Carids incl. Systellaspis, young & adult

Penaeids - 2 spp.

cyphosoids 3 or 4 spp.

mysids - including ? Eucopia

Copepods

amphipods

ostracods - incl. Conchoecia

Chaetognaths - Sagitta macrocephala or ? Eutromia

Also epipelagic
plankton taken on
way up to surface.

Collector Te Vega Recorder McWilliam

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 240 Date 6 March, 1965 Time 2000-2100 Field No. _____

Lat. 05° 06' S Long. 154° 50' E Chart _____

Locality meter net 200 mwd, wire angle 63°-72°

Fish: Myctophum

Bregmaceros

rich copepod and euphausiid haul.

Invertebrates: Calanoid copepods dominant

Siphonophores

Chaetognaths

mysids - young stages

Salps

pteropods

amphipods

Ostracods

heteropods - a few

Collector Te Vega Recorder Don Colver

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 241 Date 8 March, 1965 Time _____ Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Nuguria Island, east of New Ireland.

1 specimen Grammatorcynus bicarinatus

received from Reg Einton, skipper of FRV. Tagula

Collector _____ Recorder Chen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 242 Date 9 March, 1965 Time 1400-1630 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Salomon Islands, Bougainville, Putk Putk Island opposite Mieta, Brackish water lagoon cut off from ocean by sandspit, Depth to 4' Bottom firm and sandy near beach, muddy with much decaying plant debris farther upstream.

1 gallon poison spread. Poor recovery. Shoveled through strand in attempt to drain lagoon but little success.

Mugilidae 3 1 with yellow tail
other 2 silvery, one very abundant

Lutjanidae 1 juvenile spec.

Theraponidae 1 abundant

Ambassidae 2 translucent in life

Gerridae 1 abundant

Scatophagidae 1

Menodactylidae 1

Eleotridae 4

Gobiidae 2

Periophthalmidae 1

Collector Cohen, Davis, Eikenberry, Schuierer Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 243 Date 9 March, 1965 Time 1500-1630 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality East side of Puk Puk Island, opposite Kieta, Bougainville, Solomon
Islands, sea beach outside of poisoned^(rotenone) drainoff from brackish
water lagoon.

Muraenidae 3

Moringidae 1

Belonidae 1

Mullidae 1

Liopjanidae 1

Lethrinidae 1

Serranidae 1

Apoгонidae 1

Pomacentridae 1

Carangidae 1

Cynoglossidae 1

Scorpaenidae 2 incl. 1 stonefish

Labridae 1

Scaridae 1

Balistidae 2

15 fam. 19 sp.

Collector Davis, Eikenberry Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 244 Date 8 March, 1965 Time _____ Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Bougainville, Solomon Islands. Moto reef off
Kieta Peninsula. Two carapids inside Stichopus

Collector Arch Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 245 Date 10 March, 1965 Time 1400-1500 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Coral reef off main marker, Kieta Harbor, Bougainville, Solomon Ids.
2'-12'

Bratulidae 1

Holocentridae 2

Gobiidae 2

Seleidae 1

Pomacentridae 3

Apogonidae 3

Labridae 2

? Gerridae 1

? 1

Blenniidae 1

Scorpaenidae 1

Collector Cohen, Fell Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 246 Date 7-12 March, 1965 Time _____ Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Solomon Ids., Bougainville, Kieta Harbor

Miscellaneous collection taken by nightlight and hook and line from Te Vega and with bait net of Tagula

carangids, small schooling }
priacanthid } from Tagula
leionathids }
few apogonids }

barracuda

Alectis

Aeoliscius

atherinids, etc

flatfish

larval fish

Collector Te Vega, Tagula Recorder Cohen

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 247 Date 11 March, 1965 Time 1045-1400 Field No. _____

Lat. _____ Long. _____ Chart H.O. 2926

Locality Solomon Ids, Bougainville, Tautsina Island, east of Kieta Peninsula, Coral reef off stack at N. end of island. Same surge, 3 1/2 gallons poison at 10'-15'. Surge drifted poison back and forth over outer side of reef. Fish recovered at 3'-25'

	<u>Antennariidae 1</u>	<u>Tetraodontidae 1</u>
<u>Clupeidae 1</u>	<u>Blenniidae 5</u>	<u>Diodontidae 1</u>
<u>Synodontidae 1</u>	<u>Serranidae 17</u>	<u>Canthigasteridae 1</u>
<u>Plotosidae 1</u>	<u>Apogonidae 10</u>	<u>42 families</u>
<u>Muraenidae 7</u>	<u>Pomacentridae 13</u>	<u>about 150 species</u>
<u>Moringuidae 1</u>	<u>Sparidae 2</u>	
<u>eel 2</u>	<u>Cirrhitidae 1</u>	
<u>Fluviostomidae 1</u>	<u>Lethrinidae 1</u>	
<u>Atherinidae 1</u>	<u>Lutjanidae 1</u>	
<u>Sphyraenidae 1</u>	<u>Emmelichthyidae 1</u>	
<u>Mullidae 2</u>	<u>Gaterinidae 1</u>	
<u>Belontiidae 2</u>	<u>Carangidae 1</u>	
<u>Holocentridae 7</u>	<u>Labridae 26 ?</u>	
<u>Brachyidae 2</u>	<u>Scaridae 9</u>	
<u>Carapidae 1</u>	<u>Chaetodontidae 8</u>	
<u>Electridae 3</u>	<u>Zanclidae 1</u>	
<u>Gobiidae 3</u>	<u>Siganidae 1</u>	
<u>Scorpaenidae 5</u>	<u>Histiogasteridae 1</u>	
<u>Caracanthidae 1</u>	<u>Acanthuridae 7</u>	
<u>Soleidae 1</u>	<u>Balistidae 2</u>	

Collector Cohen, Davis, Hurwood, Eikenberry, Blackburn Recorder Cohen
Eginton and 5 natives from Tagula

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 248 Date 11 March, 1965 Time _____ Field No. _____

Lat. _____ Long. _____ Chart H.O. 2926

Locality Solomon Ids. Bougainville Strait, Oema Atoll

Several scombroids and malacanthid? donated by
Reg Eginton, F.R.V. Tagula

Collector _____ Recorder _____

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 249 Date 14 MARCH 1965 Time _____ Field No. _____

Lat. _____ Long. _____ Chart Bougainville Id.

Locality SOLOMON IDS - ~~BOUGAINVILLE ISLANDS~~ - KIETA
AREA & TAUTSINA ID

MISC. FISHES SPEARED OFF TAUTSINA ID

ca 11 - 1400 hrs

POMACENTRIDAE 1 - SPECIES MOST COMMON

ALONG SWASH ZONE OF
SURF

CHAETODONTIDAE 2

OBLIQUE STRIPES - UBIQUITOUS

PARABOLIC BLACK STRIPES

MOST COMMON AMONGST

LIVING CORAL ^{coll.} - F. SCHIEPPE
OFF BOUGAINVILLE

DIODONTIDAE ? 1

- MASKED IN LIFE - SAME

AS FORM FROM PABAU

- CAUGHT BY HAND - D.M. COHEN

ACANTHAURIDAE

- OLIVE W. VERT. BLACK

BARBS - COMMONEST OVER ROCK

SAND - DEAD CORAL

Collector Wm PD, DMC, F. S. Recorder Wm P DAVIS

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 250 Date 20 March 1965 Time 1400-1600 Field No. _____

Lat. _____ Long. _____ Chart _____

Locality GUADACANARI - approximately or guessed at Benina Pt
in fresh water river - mouth has wreck of a
freighter in it - navigable in a small boat
Poison station run in a back water off main
stream - sand-gravel basement with vegetable
debris ca 2-4" deep - water is 0-5' deep
much vegetation - "hornwort" and "potamogeton
like plants" - good kill -

Anguillidae - 1 (?) - were buried in banks under leaf etc.

Mugilidae - 1

Amblycestridae - 1

Synbranchiidae - 1

Theraponidae? - 1

Labiidae ca 5 or 6

Eleotridae ca 5 or 6

Scatophagidae 1

Scorpaenidae? - 1 - spine off snout and preopercular
area of head

Families

ca 17 species ±

Collector W.P. Davis, C.M. Yonge, F. Schiewer Recorder W.P. Davis

TE VEGA EXPEDITIONS
STANFORD UNIVERSITY

Sta. No. 251 Date 20 March 1965 Time 2000 - hrs Field No. _____

Lat. _____ Long. _____ Chart _____

Locality Ludacanal - Honiara "harbor" - night light
(over surface) - very calm sea - moonrise
ca 2115 - behind clouds - formed plankton cloud
quickly. 3 squids seen - two captured - large
carangid type not captured - no halfbeaks seen (for GBC)

Atherinidae - 1

Mastaxidae Amblypteriidae 1

Syngnathidae 1

+ Clupeidae - ()

+

+

larvae

+

+

Collector _____ Recorder Sam P. Davis