

3-32

40-45 fms

June 17, 1932

(S.E.)

Anasimus latus Rathbun

7 ♂ (1 very small) 2 ♀ (1 orig).

Stenorhynchus seticornis (Herbst)

3 ♂

? Goneplax hirsuta Borradaile

1 ♀ orig

Stenocionops furcata coelata

(A. Milne Edwards) 1 brk
(Caribbean only)

Portunus spinicarpus Stimpson

55 in net mostly
saved
+ mostly medium or small
in size

Stenocionops spinimana Rathbun

2 ♂ 1 ♀ orig

Dardanus —

1 ♀

Paguristes —

? triangulatus,

1.

4-32. 45-46 fms.
June 17, 1932. (S.E.)
shelly bottom.

Nibilia antilocapra (Stimpson)

not before above 52 fms ^{1♂}
Rathb. p. 291.

Anasimus latus Rathbun

Stenocionops spinimana Rathbun ^{2 ♀ ovig}
_{1 ♀ ovig. 44}

Portunus spinicarpus

3♂ 1♀ ovig

head Leg joint of Leucosid. 1.

? Bathyplox ^{near?} ~~plox~~ typhla.

2♂ 3♀ (1 ovig) 1?♂ with
rhizocephal.
Send Boschma

Munida, 1 purple. 1

— goneoplacid?
carapace only 1.

Dardanus

Shells and ophiurans of two hauls combined ^{2♀}

Channel Haul
12-15 — 32, June 23, 1932
see also 13, 14, 15 see also 9; 10; 11, -'32.

Podochela riisei Stimpson
3 ♀ (2 orig).
10 hauls in channel

Calappa flammea (Herbst)
2 frags. of carapace

Macrocoeloma trispinosum
var. or subspp.? (Latreille)
1 ♀

? Portunus gibbesii (Stimpson)
1 ♂ + 1 ♀ in sugar
(? P. spinimanus Latreille).

Lobopilumnus agassizii
(Stimpson)
1 ♂ 1 juv

3 or 4 little Xanthids undet.

Sta. 21-32 72-60 fms

Stenocionops spinosissima (Saussure)
(Stimpson)

Acanthocarpus alexandri

9 ♂ 5 ♀ turned over
to Boyden.

2 ♀ (1 orig) in sugar vol.

1 ♂ 1 ♀ orig to Stone

1 ♂ 1 ♀ orig to Williams

2 ♂ 2 ♀ (1 orig) kept as saved

Portunus spinicarpus
Stimpson

1 Large phyllosome larva, found among
debris in dredge table

? Iliacantha

2 ♂, 1 ♀, 1 ovig
both carapace

Anasimus latus Rathbun

2 ♀ orig (1 in sugar vol.)

Porcellana sigsbeiana

8 searching 2 broken (saved in. Edw
sample because with mud caught in net)

Sta. 22-32 39 fms (several large rocks)
Stenocionops spinosissimus (Saussure) 2♂/♀

Portunus spinicarpus
(Stimpson)

22♂ 11♀

Stenorhynchus seticornis (Herbst)
~~Schubert~~

5 ~~♂~~ ^{sub. spec.} (1/2?) ♂ 3 ♀ (largest = ♂
29 mm in length
of carapace)
(1♂ to Williams)
(leaves 4)

Found several more of each in other
bottles from this station and added to
bottles containing above.

Vial of Aphiragum, 2 kinds
~~large Phyllosoma larvae.~~

11 Hermit ^{-in shells} (2 in sugar sol.)

Bryozoa, Sponges, Mollusks, Hydroids, Alcyonarians

sta

25-32

125-65 fms

a single *Penaeus*

Iliacantha

? *Raminoides*

3 or 4 *Anasimus calus*

3 or 4 - *Athusa mascarene*
americana

Acanthocarpus alexandri

1/2 gal.

10 or 11 large *Stenocionops*

Sta. 26-32

60 fms
-60

Hardanus. several

Ethusa mascorone

americana "

Anasimus latus

Pyrosoma to Boyden

" larva

" pupa

They *diphomedusa* "

saved

"

2 or 3 *Stenocionus*

Portunus spinicarpus

large Hermit.

Sta. 27-32

43 fms
shelly bottom

Stenorhynchus several
good sized

2 Stenocranus sp.

lot of Hermit

Sta. 29 - 32

140 - 79 fms

140 - 79 fms

Acanthocarpus alexandri

Raminoides several

~~*Bathypogon*~~ ~~*sp.*~~ ~~*sp.*~~ ~~*sp.*~~ only

5 *Anaximus latus*

July 2, 1932

29-32 — 140-79 fms

Left dock	6.20	
Pass Red Ditty	6.55	
Sound	8.50	= 140 fms
Over	8.57	
Bottom	10.22	= 360 fms cable

Ship seemed anchored
hauled in and

Sound 11.00 = 79 fms

Apparently struck ridge
encountered on first haul
of June 30.

2 ponders, 1 Brodiaea 1 red
scorpaenid?, globular
sea urchins, 2 spiders (*Maia*
maius)

30-32 — 156-135 fms

Run S	10 mins	Sound	108 fms
" "	8 "	" "	156 fms

Over	11.40	cable out	460
Bottom	12.40		
Up	1.25		
Deck	2.17		
Sound	2.20	= 135 fms.	

Numerous
crabs; other
species of
Acantho carpus

Sta. 30-32 | 156-135 fms.

Acanthocarpus bi-
spinosus 6 or 8

394 *Benthoceras* schmitti.
Large red legged sp. det.
20 Geryon. = *Actinia*
crassa | 8 or 10

Bathynedes superba
one gal.

few small
Acanthocarpus alexandri.

~~(check species)~~
Munida ~~lagotis~~ 9±

Raminoides

White Permin

Geryon claw from.

July 2, 1932 (cont'd)

④

31-32 - 49 fms.

Run N.

Sound 3.05 = 49 fms

Net over 3.10

Startup 4.05

Deck 4.20

Return 4.25

Pass Red Buoy 5.25

numerous flounder
"Goster" fish, small gaily colored
Large Calappa

Sta. 31-32 | 49 fms
~~shelly bottom~~
Portunus spinicarpus
1/2 gal

Hermit, in mollusk jar.

Hypochoncha

1 large *Stenocrobia*
spinosissima

1^{ves} large *Calappa*
pale colored

July 7, 1932

Haul # 35-32.

Depth from chart
60-64 feet

Left dock 8.00 a.m.

West side White Shoal

Net over 8.20

Tow S.W. 40 fms cable out

Start up 8.43

Surface 8.45 few fish, black
cut sponge

36-32

Repeat of # 35

Depth from chart
60-64 feet

Net over 9.00

Bottom 9.07

Start up 9.35

On deck 9.40 many fish and
flounders.

37-32

Depth from chart
58-64 feet

Trawl between red buoy
head of channel east of
White Shoal to black channel
buoy.

Net over 10.00 a.m.

Start up 10.15 fair haul

Surface 10.19 fish

38-32

lost net between black
channel buoy. C.3. over 10.30 up 10.40

July 8, 1932...

Three dips with orange-fee
bucket, and 3 hauls with boat
dredge (last one canceled net wrecked)

O.P. Bucket

39-32, - (12 1/2 fms), 1/4 - 1/2 mile
S.W. red buoy east of Bush
Key; soft compact mud,
which showed many small
shells and shell fragments
on washing; forams, and
a few crustacea fragments.

40-32, O.P. Bucket - (13 fms.)
10 mins (1 engine) S.W. preceding
soft mud as above,
1 Aragon, 2 Synalpheus, 2
Callinassa

41-32, O.P. Bucket - (14 fms.)
near black buoy S.W. of Red
one. Coarsely sandy mud
many black specks, shell frag

41 (cont'd.) July 8, 1932.

shells + fragments in washing
several sponges, 2 Eury-
plax nitida, Parthenopora
~~clans~~ clans, 1 Callianassa

42 - 32 Boat dredge hauled
N.E. from last station liquid
grey mud: shell fragments

1 Euryplax nitida, 1
Crangon, 2 Siphonophores,
2 transparent shrimp (Palaeomon?)

43 - 32 Boat dredge, in
continuation of preceding
N.E. toward red buoy,
1 amphipod, 1 Crangon
shell frags. ~~found~~
matted red alga, no mud
few shell fragments

44 - 32 not used net wrecked too near
red buoy.

#47-32

367-325ms

also a small
Phoronema in

July 15 1932

Polychaetes 3

test.

Geryon

2.

Bathynomus

1 small.
6 inch chest

Bathyplex lyphla 4 ♂ 8 ♀ (1 orig)

1 small spider crab \oplus

muricida birds spined. 13.

heptopsis aculeata

hematocarpus 17
est together. (216 + 1 Parulid
with 1 red nest)

1 Pasiphaea 1

Glyphocrangon ~~1 spec. each~~
but species 1 sh. large
are

" " " 2 small of

1 Hermit in anemone replaced shell

July 16, 1932

47-32 → 367-375 fms Sailed dock 5 a.m.

Barred # 2 buoy @ 5.33

Run S. 2 hrs. 30 mins. (8.00 a.m.)

Sound 8.05 = 367 fms.
lead wh. 8.23

Net over 8.30 - 1125 fms cable.

- 10.07 vessel not moving

at surface 11.15 few fish, numerous
crustaceans

Sound 11.20 = 375 fms (lead wh. 11.45)

~~# 48-32 Run N. about 30 mi.~~

~~Net lost! cable broke. 12.15 p.m.~~

~~Sound 12.20 p.m. = 289 fms~~

~~Sound after 10 mins more = 217 fms~~

~~Net over 1.00 p.m.~~

~~Bottom 1.45 660 fms. cable.~~

~~Sound 2.14 (Net lost almost
at surface.)~~

~~Sound 2.53 p.m. = 312 fms.~~

#49-32 98 Ms
July 15, 1932

Rochinia crassa

67 19
181 tubes

Parthenope montalesii 4.

(Sessile barnacles on one
stalked on another of smaller spec.)

Ranillia

Peneus? sp?

Anasimus latus 1

Round and urchins

July 16 - 1932 (cont'd)

→ 98 fms.

#49-32 Run with 30 mins.

after fixing netting.

Sound 3.50. = 149 fms ^{Lead out} 3.55.

Soundings completed 1.5 mins.

Sound 4.15 p.m. = 98 fms.

Net are.

On bottom 4.35 p.m. 302 fms cable.

Start up. 5.00

Start home 5.15 Dock. 9.30 p.m.

#51 - 32 July 18, 1932

430 - 39 2 fms.

Polychaetes 4 + 5 + 3

1 large red Plesiothenura ^{coln as in Bourner.}

Muricea thick tri spined part

M 1

Nephtys aculeata 1
agass

Glyptocirrus 1+1

Bathypolys typhla 7
(1 with burrhead attached)

Shrimp
~~red~~ Pandidid? <sup>with median
spines on
abdomen</sup> 6 no behind eye

hematocarcinus 1 (short root)
Pandidid = 1 with long root ^{abnormal}

Octopus!
Barnacle on coal

July 18 - 1932

51-32 → 430-392 fms
Leave dock 4.45
Pass Red #2 buoy 5.20.

Start sound 8.20 a.m. = 430 fms (9.4 a.m. sound
Look 23 mins)

Ret over 8.49 a.m.

Bottom 9.40 = 1270 fms.

Sound in 10.05 vessel motionless ^{Cable out.}

At surface 10.48

Sound 11.37 a.m. = 392 fms.

52-32 → 392-375 fms
Begin haul from end
of preceding one.

Sound 11.37 a.m. 392 fms.

Ret over 12.00 noon.

Bottom 1.00 p.m. 1030 fms cable
(hauled in to 1000) out.

Start up 1.35

Sound 2.36 = 375 fms

Good haul except for quantity
decr sea slackness.

52-32

392-357 fms.

✓ Polydora 3

✓ Nephtys caudata 3
~~and dead carapace only~~ 4

✓ Glyphocrangon 20

✓ Nematocarcinus ~~invs~~ (Haliporus) 12

Pandalid? 1

Paternid carapace 1 brk.

Bathypora typhla 12♂

(long 7 with large burr made
in leg) 15♀ (orig)

✓ Munida (1 with isopod) 8

✓ Munidopsis 5 (one ^{small one} with small
pink growth on side
of carapace to de Saubert)

1 Octopus, 1 Penaeal shell

1 crinoid stalk ^{discarded} like stem 3 saved / other 2 sample.

#53 -32

1 shell with ^{short red} alcyonarians

1 pc. coral with hydroid.

1 small glyptocrangon.

Could this have been
left over from previous
haul? may be diff
species.

July 18, 1932 (cont'd)
53 - 32. Start $\xrightarrow{46 \text{ fms}}$ N.N.E. 3.00 p.m.

Sound 4.25 p.m. = 46 fms.
Net up. 4.35, 150 fms cable
out increased to 160.

Start up. 4.55 empty haul
except for coral chinkers,
1 shell, 1 shrimp.

Box red buoy 6.30 p.m.

July 19, 1932

Leave dock 7.25 a.m.

Pass Red #2 buoy 7.52. Run S.

54 - 32 → (315 - 295 fms)

Sound ^(bottom) 10.13 a.m. = 315 fms. lead wh 10.30.

Net over 10.35

Bottom 11.25, 900 fms cable out.

12 noon 20 fms more

12.05 25 " "

Start up 12.15 p.m.

On deck 1.05

Sound 1.10 p.m. = 295 fms

168 fms

55 - 32 ↗ Run N+E 25 mins

Sound 1.53 p.m. = 119 fms Run S, 10 mins

Sound 2.13 = 168 fms

Net over 2.20

Bottom 2.57 p.m. 470 fms cable out

Start up 3.28

On deck 3.50 and start home

Signal light 5.42

Pass #2 Red buoy 6.15 p.m.

54 - 32 315 - 295

Cymatopoda - 2 (V)

Haliporus robustus Smith

3 ♂ 6 ♀ 3 immat.

Rochinia crassa (32) Young (of which 7 ♀s and

Styphocrangon 203 (A.M. Edw.) other 25 ♂

Nephrops aeneus

Geryon quinque-dens 1 ♂ 2 ♀

Polycheles 2, 3, or 4

Podochela (V) 2 on hum matt of debris at base of Antipatharians.

Munidias 8-10 thick shined hard M

Bathyplex typha 16 ♂, 1 ♂ 1 ♀ (2 ♀ and

(11 ♂ 7 ♀ and 3 ♀ org) 12 this discarded

1 Hermit with bell + 1 empty shell

Got one long to siliceous thread of siliceous sponge gave to de Santenfelz.

Crinoid (V) // Antipatharians in low wide mouth pint. =

#

(2)

54 list of water V

tiny Actinaria or Scyphomedusa

tiny amphipod.

limpets 3-4 small fr

piece water logged sugarcane.

one little murexida }
" " murexidopsis }

pelagic mollusk.

Ethusa mascarone americana

~~two *Cymatospira* in ref. water.~~

55-32 768 fms

1 Phronima } 4 with Boyd
✓ Murex } 1 with Physocentrid bottles etc
49 (1/2 gal jar)
+ 62 (in another "....")

✓ Acanthocampus hispidus 1 ♂
" alexandri (12 ♂ 1 ♀)
1 ♂ curatone 37 mm wide } discarded } small jar above
all ♀ " 42 " " } discarded } large bottle

✓ Bathynodes superba 3 ♂ with
barnacles (10 ♀ 7 ♂ to Boyd)
and three ♂s the smallest spec in
lot (these spec. in 2 diff. bottles + 1 wide gal)

✓ Ramilia 5
✓ Cymopodia

4 small Rochinia crassa and
1 small Bathypora typha certainly
left in net inadvertently from
previous haul (overlooked in checking
over net which we try to do carefully
each time)

✓ Benthoscaea schmitti 2.
3 shells 1/2 brood 2 gastropods are
covered with acinians.

July 22, 1932

56-32. Three short
 hauls combined

Left anchorage 8.56 am.

hauled over 9.45 = 10 min low

hauled over. 10.10 = 30 " "

hauled over 10.55 = 15 " "

End quite near low water;

Lowest from No. 2 red on north
end to C. 1 black on southern
end.

Start haul in net at

end. 11.10 am.

July 22, 1932

56-32 Three hauls

combined.

Southeast channel haul
from N. 2 Red to C. 1 Black
buoy. 12 1/2 to 14 fms

first haul 10 mins

second 30 mins

third 15 mins
(two near buoy for longer haul)

#56

Nails.

{ amphipods
shell
crab carapace
junks

{ eggs strings of whale

{ worms & amphipods

{ Strombid under sponges.

{ green alga

July 23, 1932 Three hauls ①

#57-32 = 92-94 fms regular net.

Leave anchorage 7.05 a.m.

Pass #2 red buoy 7.40

Lose sight of light 9.02

Sound 9.15 = 82 fms.

Run S. 5 mins one engine

Sound 9.27 = 92 fms.
(lead up. 9.31)

Net over 9.35

Bottom 9.51 = 260 fms cable

Startup 10.25

Surface 10.40

Sound 10.47 = 94 fms

#58-32 = 94-83 fms; B.F. shrimp trawl.

Row back over previous course

Net over 10.55

Bottom 11.20 = 270 fms cable

Startup 12.10

Sound ca. 12.20 = 83 fms

#57-32

92-945ms

July 23, 1932

(see also
58+59)

Cicaultocarpus.

Stenocranus

Pyromania

Alliasanthus

Ethusa

Sta. 57-32

92-94 fms.

Pyrosoma cuspidata Kallher

9♂ 1♀ orig
these spec. from three stations
57, 58, 59-32.

Pyrosoma.

#57

Nats.

{ hydroid for Hummel dms
from large stercoraria.

{ small jil. Ethusa
1 Penid

{ small cuttlefish. squid.
baby octopus.

Sta. 58-32 = 94-83ms

Pyrosoma cuspidata
Kallan

9♂ 1♀ orig
these specimens from three
sta's #57, 58, 59-32

Stenocryptus spinosus
5♂ 2♀ (orig) (Daussume)
some from each of three
stations 57, 58, 59-32

Several small Ethusa

" " Porcellana + 1 large
1 young acanthocephalus

1 mollusk, same kind was taken
in 57-32, but lost?

#58

(Nats)

{ 2 Peneids

{ small - darkish
small shell
saphyromi.

{ Peneides larva spring lobster

{ small crab

{ larva of scyllard

{ crab megalops

July 23, 1932 (Cont'd)

(2)

59-32 = 83-91 fms. Special
Tow back over previous course net, fine cod-
End.

Net over 12.45

Bottom 1.00 p.m. = 260 fms cable

Add 10 fms cable 1.12 = 270 " "

Start up. 1.45

Up, surface 2.00

Sound " " = 91 fms

Start home 2.10 p.m.

Pass Red buoy 3.46 p.m.

Sta. 59-32 = 83-91 fms.

Pyromaia cuspidata

9♂ 1♀ orig. Rathbun
some from each of three
stations #57, 58, 59-32

Stenocinops spinosissima

5♂ 2♀ (1 orig.) (Dausmann)
some from each of three
stations, 57, 58, 59-32.

Acanthocarpus alexandri

5♂ 6♀

Olliacanth 3♂ 2♀ orig.

Ethisa mascaroni americana

2♂ 3♀ 3 juv. (last in vial)

Porcellana zigbeana 1♂

small + large dead globe
urchins.

2 large anemones + 2 small Pyromaia

3 shells smallest spine shell into kermit
1 pecten; shells all have bristles.

59

Vials

{ Prcellana right.

{ 3 Ethna young.

{ 1 Peneid.

{ 2 small murexids.

{ Amphipods + worm frag.

{ Pteropod.

July 28, 1932 Tine ①
Hauls, of which first
resulted in net lost and
second and third catches
combined, otherwise
separate.

~~#60-32 Tine haul, net
lost.~~

~~Leave dock 6.45 Pass
red buoy 7.15. Start
Sound (1h 20 min) 8.35 a.m.~~

~~51 fms. cable out 160
fms haul in 9.43, net
gone except for cork line.~~

~~Sound: 9.53 = 57# fms~~

#61-32 Tine haul, shrimp
haul (57-46 fms.)

net worn at 10.17 150 fms
cable. Start up. 10.30

Surface 10.37 Sound 46 fms. 10.45 a.m.

July 28, 1932 (cont'd) (2)

#62-32 ^{Down back} (Specimens of
61 and 62-32 combined)
(Depth for two = 57-46 fms)

Sound 10.45 am. = 46 fms.

Net over 10.50

Bottom 11.02 150 fms cable

Start up. 11.30

Sound " " = 50 fms

#63-32 = 50-58 fms
(Down back)

Net over 11.40

Bottom 12 noon = 160 fms
cable

Start up. 12.37

Deck 12.47

Sound 12.50 = 58 fms

July 28, 1932 (Cont'd) (3)

#64-32. 58 - 55 fms

Sound 12.50^{back} = 58 fms
Net over —

Bottom 1.07 160 fms cable

Start up. 1.38 out

Surface 1.47

Deck 1.50

Sound 1.53^{pm} = 55 fms

+ Start time

July 30, 1932

65-32

580 (to 547?)
fms fms

Leave dock 4:40 a.m.

Pass Red buoy 5:10.

Stop sand, from 8:48 } = 501 fms
to 9:15 }

Run south, stop
and sand from 9:30 } = 462 fms
to 9:55 }

Run south, stop
and sand from 10:21 } = 580 fms
to 10:35 }

Let over. 10:35; 1290 fms
cable out

Shed anchored, 11:01 start up

At surf. 1:47 p.m.
Sounding faulty? = 547? fms.

Returned here about 9 p.m.

Aug. 1, 1932

66 - 32, = 138 - 140 fms
(towed east)

Secure dock. 7 a.m.

Pass buoy 7.24

St. J. + sound 9.20 = 138 fms

net over 9.25; 394 fms
cable.
@ 10.10 a.m.

Start up. 10.40.

fleck 11.00

Sound 11.05 = 140 fms

67 - 32 140 - 197 fms

(towed west)

net over 11.19

Bottom 11.50; 400 fms cable
out.

Start up. 12.20.

fleck 1.00 p.m.

Sound 1.07 = 197 fms

#67.

Munidas 2 kg gal

Benthococcus 2

Bathypoda
superba doz

Acanthocarpus
alexandri

Aug. 1 (cont'd)

68-32 197-5 plus fms.

net over. 1.15.

Bottom 2.15 = 600 fms
cable out.

2.25 = 25 fms more
cable.

Start wh. 2.45

Heck. 3.15 or 3.20

Lead wh (? sounding) + start

home. 3.43 p.m.

Pass buoy ^(#2 red) 6.10 p.m.

68 r

Benthocum 2

~~Bathypoda~~
~~depth day~~

Ok. ~~Sargassum~~ 3-4
- - - - - det - - -

Musselopsis

Halim a Penes 3-4

Aug. 3, 1932 (mante)

#69-32

Leave dock 5.00 a.m.

Pass #2 red buoy 5.35

Stk + sand. 7.45 = 334 fms

Run N. and
sound = 249 fms.

Cable and 9.25 = 700 fms
9.50 = 770 "

#70

Sounded (at end of previous haul
also start of second haul.) = 358 fms.

put dredge over, anchored ship
after 250 fms cable were
paid out,

Aug. 5, 1932 (Manter)

#71-32 first haul.

= 190-280 fms

Run 2 hrs S. Red buoy.

Sound = 299 fms.

Run N. 12 mins

Sound 190 fms

Net over, ^{about} 45 min haul

Sound at end, 280 fms

#72-32 = 130-112 fms.

Sound beginning 130 fms

Hauled | 40 mins.

Sound at end 112 fms

mostly mud

Aug. 5, 1932 (Manter)
Cent'ed

73-32 = 66-60 fms.
Sound 66 fms.
~~Hauled~~ net 30 mins
Sound 60 fms

74-32 = 60-60 fms
Sound 60 fms
Hauled net 30 mins
Sound 60 fms

#73-32

Portunus spinicarpus

42 ♂

12 ♀ (1 with damaged scutum)

23 org

Acanthocarpus alexandri

3 ♀

17 ♂

74-32

Polunus spinicarpus

31 ♂ (12/11)

53 ♀ (4/20/11) plus 1 female with
and 9 org. tamande saved

Acanthocarpus distans

4 ♂ 1 ♀

Aug. 6

Port. marginalis

#4 ♂ (1 lg, 2 med
1 small)

5 ♀ (1 lg, 4 small)

discarded

Williams fish # 185.

June 17. - 40 fms.

Halentichys aculeatus

(2 3/4")

1 shrimp, Proressa canaliculata
about 1 cm. long. Each.

Williams fish # 255

June 23, 1932; 8-10 fms.

Syacium papulosum

(8 1/2")

1 shrimp, Crangon sp? either
packardii or floridanus
each chelipeds. both of Kingsley
nearly 2 cm. wide

1 crab, Parthenope serrata
M. Edwards
small, broken perhaps
1 cm. wide

Williams fish # 291

June 26, 1932, 70 fms.

(5 1/4")

4 specimens ^{shrimp} Pandalus species, near

Squilla
parthenope

Mantis fish # 1200
June 27, 1932, 70 fms.
Scorpaena agassizi (6")
1 crab, Pilumnoplax data
(A. M. Edw.)
1 young female carapace
about 1 cm. wide.

Mantis fish # 1221 - 60 fms
June 30, 1932, - 125 - 60 fms
Holosema dilectum
crabs, Acanthocarpus
alexandri Stimpson
5 small young, carapaces
from 3-4 mm. wide.

Mantis fish # 1227
June 30, 1932, 60 fms.
Scorpaena agassizi (5")
crabs. Pilumnoplax data (A. M. Edw.)
3 small carapaces 1 cm, 7 mm, 7 mm wide

Williams Fish # 346

July 2, 1932. 156-135 fms.
Paralichthys oblongus (9")

1 young Acanthocarpus
alexandri & Stimpson.

carapace about 4.5 mm wide.

Thomson tray for hardening
fish; fish of July 2 or June
30, got one small

crab Pilumnoplax elata
(A. N. S. Edwards) 1 young female
carapace 1 cm. wide

(Compare mantle fish, 1200 and
1227).

Gnathypops, July 5, 1932.

tail of shrimp zoea

small hermit crab

(?one of symmetrical Pylochelidae?)

2 small barnacles, viscera of
a else larvae at a very
advanced stage

2 ostracods, and perhaps remains
of others

1 Canaid isopod

hinder third of small amphipod.

dozen odd copepods, several
species, or else one species and
larvae

2 small shells, ^{gastropod} and, several
just hatched, or unhatched eggs
containing shells of gastropods.

Williams Fish:

June 23-'32:

255

1 Crangon floridanus (Kingsley)

3/4 inch long

1 Parthenopid (spider crab)

? Heterocrypta granulata (Gibbes)
perhaps 5/16 inch wide

Williams Fish:

189. ^{crab.} Goneplax barbata (A.M. Edwards)
1♂ 5/16 in wide

257 ^{crab.} Euryplax nitida Stimp.
1♂ about 1/2 in wide

258 ① ^{shrimp.} 1 small Eusicyonia 3/8 in long

② ^{shrimp} Crangon floridanus (Kingsley) 2
larger: 3/4 inch long, other = frags.
but about 1/2 size.

③ ^{shrimp.} Upogebia ant. end of
small spec.

④ ^{crab} Frags. and claw of what
appears to be Euryplax
nitida small spec.

⑤ ^{hermit} Anterior end of small
hermit crab.

⑥ ^{spider crab.} 1 small? Heterocrypta granulata
(Gibbes) probably carapace about 1/4 in
wide.

Syllium japonicum