

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON 25, D. C.

October 21, 1959

Dr. Meredith Jones
Oceanographic Institute
The Florida State University
Tallahassee, Florida

Dear Dr. Jones:

There has finally been an opportunity to examine the decapods received under your letter of July 28.

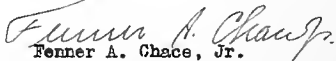
The shrimp is a female of Ogyrides limicola Williams, 1955, which was originally described from the Beaufort, North Carolina, area. Whether that species is synonymous with one or more described earlier can only be determined by intensive study of the variation in the genus.

The smaller stomatopod is a female of Gonodactylus cerstedii Hansen, 1895, probably the most abundant species between the Carolinas and Bermuda and Brazil.

The larger stomatopod is an amazingly large female of Lysiosquilla scabricauda (Lamarch, 1818). As far as I can determine from glancing over our collection, we have no Atlantic Lysiosquilla approaching this specimen in size. L. maculata of the Indo-Pacific region not infrequently attains such a size, but I did not know that any Atlantic species did. The circumstances of capture of the specimen are unusual; all I can think is that it was dying of old age, for it does not seem to be damaged in any way. Enclosed is one of my papers containing a key that you may find useful if you should encounter other material of Lysiosquilla.

I can find nothing in your letter about the disposition of these specimens. Are they to be returned to you, or may we keep them for the national collections?

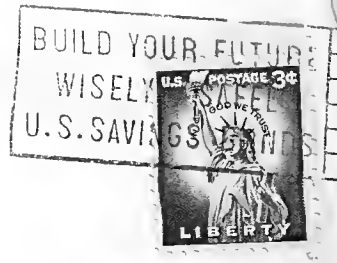
Sincerely,



Fenner A. Chace, Jr.
Curator
Division of Marine Invertebrates

Enclosure: Reprint.

F. Ziesenberme
826 W. 109th St
L.A. 44, Calif.



Dr. Meredith Jones
Co Research Division
U.S.N. Mine Defense Lab.
Panama City
Florida

Praxinosoma sp.

SPIONID CORAL, CAPE LOOKOUT N.C. L.R. McCloskey 4 XI 63

4 discrete eyes - round spots



round prostomium



branchiae from 2nd setiger to 10th (at least 9 pairs)

ventral lobes from 2nd

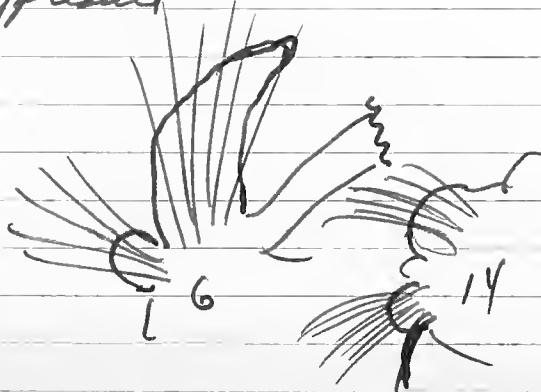
nerve hooks from 17th

noto hooks from 29 or 30th

ventral sucker setal # 14^B

anthal crest not obvious if present

6R-14R-25R-40R



post-seg
5 obvious
lobes.

Promisopid cirrifera Wren

10. IX 63

SPIONID

CORAL, CAPE LOOKOUT, N.C., L. R. McCLOSKEY

~~10. XI 63~~

2 crescentic eyes + 2 larger crescentic spots + posteriorly directed dark areas
rounded prostomium

branchiae from 4th setiger to 12th (at least 9 pairs)

ventral lobe from 2nd setiger

nerve hooks from 18th

noto hooks from 46th

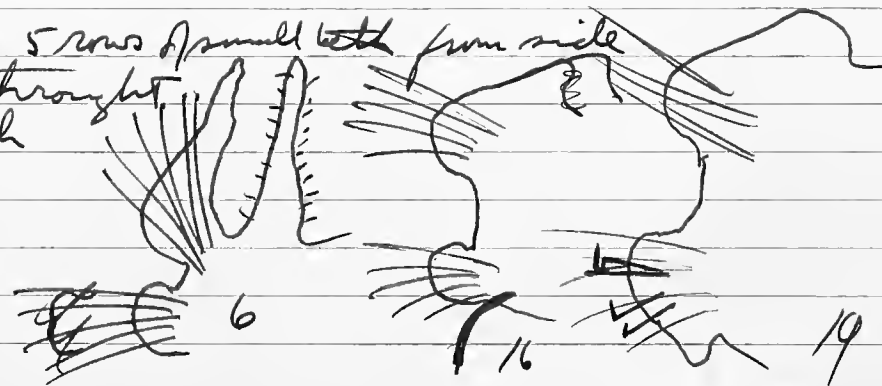
noto saber setae from 16th



hooks multidentate ± 5 rows of small teeth from side

2 obvious furciles through

heavily ciliated branch



6R-19R-16R-48R

SPIONID CORAL, CAPE LOOKOUT, N.C., L.R. McCloskey

4 XI 63

± 16 ant segs; no post.

4 discrete eyes - ~~no spots~~
round prothorax

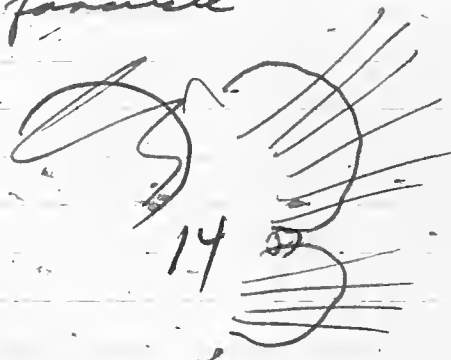
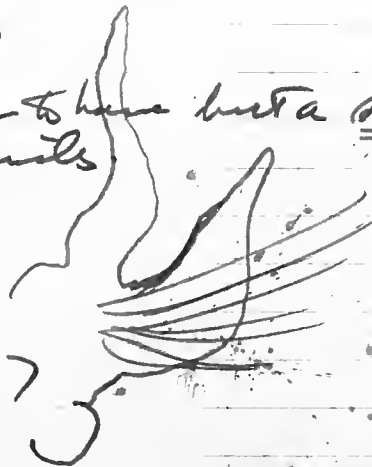


branchiae from 1st & 11th (at least 11 pro)

ventral lobes from 2nd
and crest to 2nd

vent subse setae?

setae 1-13 appear to have but a single fanicle
14 has 2 fanicles



7L-14L

MARINE ALGAE OF PANAMA CITY, FLORIDA

Collected by Meredith L. Jones

Determined by Harold J. Humm

Station 17I58 5c

Polysiphonia echinata - on leaves of Thalassia
Lyngbya epiphytica
Asterocystis ramosa
Calothrix confervicola
Lyngbya baculum
Achrochaetium phacelorhizum
Spyridia filamentosa - on Thalassia
Ceramium byssoideum - on Thalassia
Cladophora gracilis - on Thalassia
Chondria collinsiana - on Thalassia
Castagnea zosteræ - on Thalassia
Ectocarpus confervoides - on Thalassia
Ectocarpus duchassaingianus - on Thalassia
Sphacelaria furcigera
Myriotrichia subcorymbosus - on Thalassia
Polysiphonia variegata - On Thalassia
Gracilaria blodgettii
Unidentified red (Rhodophyllis?)

9-10

Achrochaetium flexuosum - on ~~Halodule~~ Diplanthera wrightii
Myriotrichia subcorymbosus - on Diplanthera

6-6

Caloglossa leprieurii - on ~~Diplanthera~~ Spartina alterniflora
Lyngbya lutea - on Spartina

2-B

Lyngbya lutea - on Diplanthera
Agmenellum thermale
Spirulina subsalsa
Coccochloris elabens
Entophysalis deusta
Lyngbya semiplena
Symploca atlantica
Anacystis dimidiata

2-B (continued)

Polysiphonia havanensis - on Diplanthera
 Phaeophila dendroides - on Diplanthera
 Lophosiphonia sacchoriza - on Diplanthera
 Ceramium byssoideum "
 Myriotrichia subcorymbosus "
 Achrochaetium flexuosum "
 Ulvella lens - on Polysiphonia hav.
 Erythrotrichia carnea - On Polysiphonia hav.

17158 4d

Unidentified brown (Fam. Striariaceae)
 Unidentified red (Rhodophyllis?)
 Polysiphonia echinata
 Ectocarpus confervoides
 Dasya pedicellata
 Chondria tenuissima
 Gracilaria blodgettii
 Polysiphonia variegata
 Lyngbya majuscula

35

Enteromorpha plumosa
 Cladophora flexuosa (?)
 Ectocarpus confervoides
 Enteromorpha flexuosa

1-B

Myriotrichia subcorymbosa - on Diplanthera
 Lophosiphonia sacchoriza - on black sand ?
 Polysiphonia havanensis - on Diplanthera
 Achrochaetium flexuosa - "

6-4

Myriotrichia subcorymbosa }
 Polysiphonia havanensis }
 Achrochaetium flexuosum } on Diplanthera

47-2

Myriotrichia subcorymbosa
 Achrochaetium flexuosum
 Unidentified brown (Fam. Striariaceae) young plants
 Chondria collinsiana

} on *Thalassia*

21-2

Cladophora fuliginosa
 Myriotrichia subcorymbosa
 Achrochaetium flexuosa

} on *Cladophora fuliginosa*

17158 2d

Champia parvula
Castagnea zosterae - on *Thalassia*
Laurencia poitei
Chondria collinsiana - on *Thalassia*

8-2

Cymodocea (?) leaves covered with *Spirogyra* sp.

18-2

Cladophora gracilis
Ectocarpus rallsiae - at base of *Polysiphonia echinata* and in dense tufts
Polysiphonia echinata (?) on barnacles
Polysiphonia howei
Cladophora fascicularis

17158 2d

Myriotrichia subcorymbosa
 Unidentified brown (Fam. Striariaceae), young
 Asterocystis ramosa
 Lyngbya semiplena

} on *Cymodocea manatorum*

17158 3d

Fosliella lejolisii
Castagnea zosterae (most abundant)
Chondria collinsiana
 Unident. red (*Rhodophyllis*?)

} on *Thalassia*

17I58 3d (continued)

Polysiphonia echinata
 Unident. brown (Fam. Striariaceae)
 Chondria tenuissima } on Thalassia

Ectocarpus confervoides
 Unident. brown (Striariaceae)
 Myriotrichia subcorymbosa
 Achrochaetium flexuosum
 Polysiphonia echinata
 Erythrotrichia carnea } on Diplanthera

Polysiphonia echinata
 Ceramium byssoideum
 Polysiphonia variegata

Lophosiphonia sacchoriza ? - on Thalassia
 Ulvella lens - on Thalassia
 Champia parvula
 Dasya pedicellata

7-1

Achrochaetium flexuosum
 Myriotrichia subcorymbosa } on Thalassia and Diplanthera

17I58 5c

Polysiphonia echinata - on Thalassia
 Unident. red (Rhodophyllis?) - this was always on limestone or a shell
 Castagnea zosterae - on Thalassia
 Unident. brown (Fam. Striariaceae)
 Champia parvula
 Ectocarpus confervoides - on Thalassia
 Ascocyclus orbicularis - on Thalassia

Duke University
DURHAM
NORTH CAROLINA

DEPARTMENT OF BOTANY

August 2, 1958

Dear Meredith,

With the exception of several taxonomic problems, I have finished the determinations of your collection of marine algae from Panama City. The list is enclosed.

Two of the taxonomic problems may be undescribed species, but I have not yet searched the literature adequately to be reasonably sure of this. The "unidentified brown (Fam. Striariaceae)" is one that has puzzled me for years. I collected it first in Alligator Harbor in the winter back in 1950 and a number of times since both there and in other localities. I have an herbarium specimen of it from the University of Florida which they sent me for determination. I am fairly certain that it belongs to the Family Striariaceae, but I shall continue to work on it until I come up with something more specific than that.

The unidentified red is another one that is not new to me. However, the only time I collected it, as I recall, was in Panama City around Tim Smith's dock over at St. Andrew. I've got to study some herbarium material of the genus *Rhodophyllis* that I have recently obtained before I can decide whether or not that is the genus. It certainly looks good.

In addition to these there are several species new to the Gulf of Mexico, as one might expect, and extension of ranges. The *Spirogyra* in 8-2 is a freshwater alga and I did not attempt to get it to species as this is a difficult genus and I have not had much experience with it. If you want it identified, I believe Larry Whitford at N. C. State will do it. Let me know and I'll send it to him. I have some *Enteromorpha* material to identify for him right now.

I know what you mean when you said you were busy while the summer course was in session. I had one in marine algae at Beaufort from June 10 until July 20, but I wasn't quite as pushed there as you were at Alligator Harbor. But it was a full-time job anyway.

The data on the collection places with your letter of July 30 will enable me to complete labels of the herbarium mounts I have made. Since I have not made duplicate mounts, I will go through the collections again and make mounts of as many of the species listed as I can and send them to you when they are ready. I am afraid that you will not be able to identify very many simply by use of these mounts, but of course they will be a help. In a few cases, they are adequate in themselves, but only in a few. Even the characteristic *Castagnea zosterae* could be Taylor's *C. howei*, as far as looks are concerned. The latter has never been found in the northern Gulf but there is always the possibility. To separate these two, it is necessary to compare reproductive structures microscopically. This is just to give you an example of the limitations of herbarium mounts as sole means of identification.

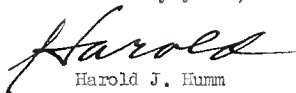
I hope I will be invited to teach marine algae at Alligator Harbor sometime in the future. If I do, perhaps you can spare the time to work with us and thus develop a facility with those of the northern Gulf.

If you would like the collections returned, let me know. I have kept them all intact except for the material used in making herbarium mounts. In a few cases, I ^{with} saved all that I found.

If you have any more material, sent it on. I shall be here in Durham the rest of the summer trying to get some things written up. But I am willing to spend some time in identification also.

If there is more information you would like to have in connection with the determinations enclosed, let me know and I shall be glad to supply it if I can.

Sincerely yours,


Harold J. Humm

22 Oct. 1958

Dear Dr. Jones,

The recent shipment of ophiurans have been identified. There is one *Amphipholis* from the first lot that has been giving me trouble and as yet it has not been found among the known species. I shall retain it for the time being.

Species to date are:

- Ophioderma brevispinum* (Say)
- Ophiophragmus filigraneus* (Lynn)
- Amphipholis gracillima* (Stimpson)
- Amphiodia pulchella* (Lyman)
- Ophiactis savignyi* (M. & T.)
- Ophiotrix angulata* (Say)
- Ophiactis mulleri* (Ltk)
- Amphipplus conioctodes* H. & Clark.

The above I can send back to you, but with your permission, where there are duplicates I would like to retain specimens for our collection.

Tell Gorbline he missed some of L.A. bottles and smogiest weather in history during Sept-Oct.

Sincerely
Fred

Date: 8.17.57 Location : Long beach
Collected with Trawl
#1

(X) Stephenolepis hispidus Linne(L) see Sastre - what is it?

#2

- † Arenaeus cribarius Lamarck (L)
- † Petrochirus bahamensis Herbst (L)
- † Portunus spinimanus Laterelle (L)
- † Didemnum candidum fusiferum Van Name (L)
- † Ostrea frons Linne (D) attached to Eugorgia
- † Ostrea equestris Say
- + Hiatella arctica Linne (L)
- + Murex fulvescens (L)
- + Anomia simplex Orbigny (L)
- + Dinocardium robustum Vanhynigi & Smith (D)
- + Chione intapurpurea Conard (D)
- + Encope michelini L. Agassiz (L)

Collection With Dredge

#1

- + Portunus spinimanus Laterelle

#4

- + Encope michelini L. Agassiz (L)
- + Astropecten articulatus say (L)
- + Chione intapurpurea Conard (D)
- + Echinaster spinulosus
- + Cancellaria conardiana Dall' (D)
- + Anodontia alba Link (D)
- + Aequipecten mucosus wood (D)
- + Aequipecten irradians concentricus (D)
- + Barbita tenera C.B. Adams (D)
- + Ostrea equestris Say

#2

- + Astropecten articulatus Say (L)
- + Crepidula plana Say (L)
- + Crepidula plana Say (L)
- + Laevicardium laevigatum Linne (D)
- + Chione intapurpurea Conard (D)
- + Cerethium floridanum Morch (D)
- + Glycemeris pectinata Gemlin. (D)
- + Phalium granulatum Born
- + Conus sozoni Bartsch
- + Conus sennotorum Rehder & Abbot
- + Oliva sayana Ravenel
- + Ceretheum eburneum C.B. Adams
- + Terebra dislocata Say
- + Cantharus tinctus Conard
- + Glypeaster subdepressus
- + Crepidula convexa Say
- + Murex recurvirostris rubidus F.C. Baker
- + Dosinia discus Reeve
- + Aequipecten mucosus wood
- + Plicatula gibbosa Lamarck

Date: 8.17.1957

Station: Collection on the Barge

- + Crepidula plana Say (L)
- + Ostrea equestris Say (L)
- + Crepidula fornicata Linne (D)
- + Arca zebra Swainson (L)
- + Strombus pugilis Linne (D) ←
- + Calliostoma euglyptum A. Adams
- + Anomia simplex Orbigny
- + Cantharus tinctus Conard (D)
- + Lima inflata (Gemlin) (D)
- + Chione grus Holmes (L)
- + Alpheus normani Kingsley (L)
- + Murex fulvescence Say (L)
- + Strombus sp. (D)
- + Styela plicata Lesure
- + Polyandrocarpa tinctoria Van name
- + Polynices duplicata Say
- + Echinaster spinulosus
- + Anachis obesa C.B.Adams
- + Strombus pugilis alatus Gemlin ←
- + Nassarius consensus (Ravenel)
- + Modiolaria lateralis Say (L) = Mulinia lateralis ? see Franklin.

Date: 8/17/57

Station: Collection on the barge

- + Styela plicata Lesure
- + Ostrea frons Linne (D)
- + Murex pomum Gemlin (D)
- + Murex recurvirostris radius F.C.Baker (D)
- + Thais hemostomum floridana (Conard)
- + Arca zebra Swainson (L)
- + Anadra transversa Say (L)
- + Aequipecten irradians concentricus say (D)
- + Crepidula plana Say (L)
- + Arbacia punctulata Lamark
- + Murex florifer arenarius Glench & Fartante
- + Diodora cyenensis Lam (L)
- + Calliostoma euglyptum A.Adams (D)
- + Pododesmus rüdis Broderip (L)
- + Ostrea equestris Say (D)
- + Anachis obesa C.B.Adams (D)
- + Podocheila riisei Stimpson
- + Polyandrocarpa tinctoria Van Name (L)

Note: As I recall these collections were made by diving so these two must have been collected in the deepest and hence listed separately.

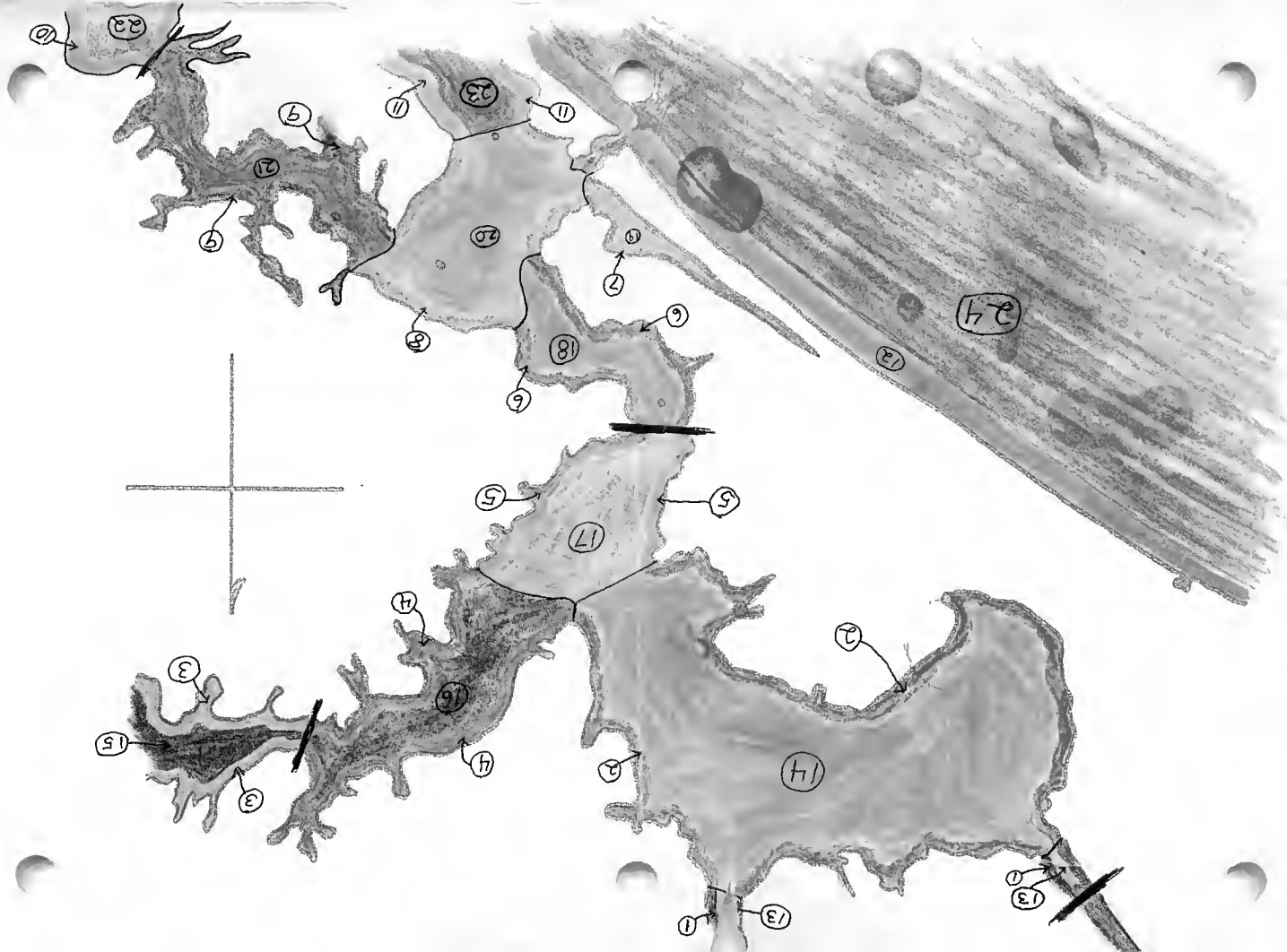
- (L) Living when collected
- (D) Dead specimens when collected

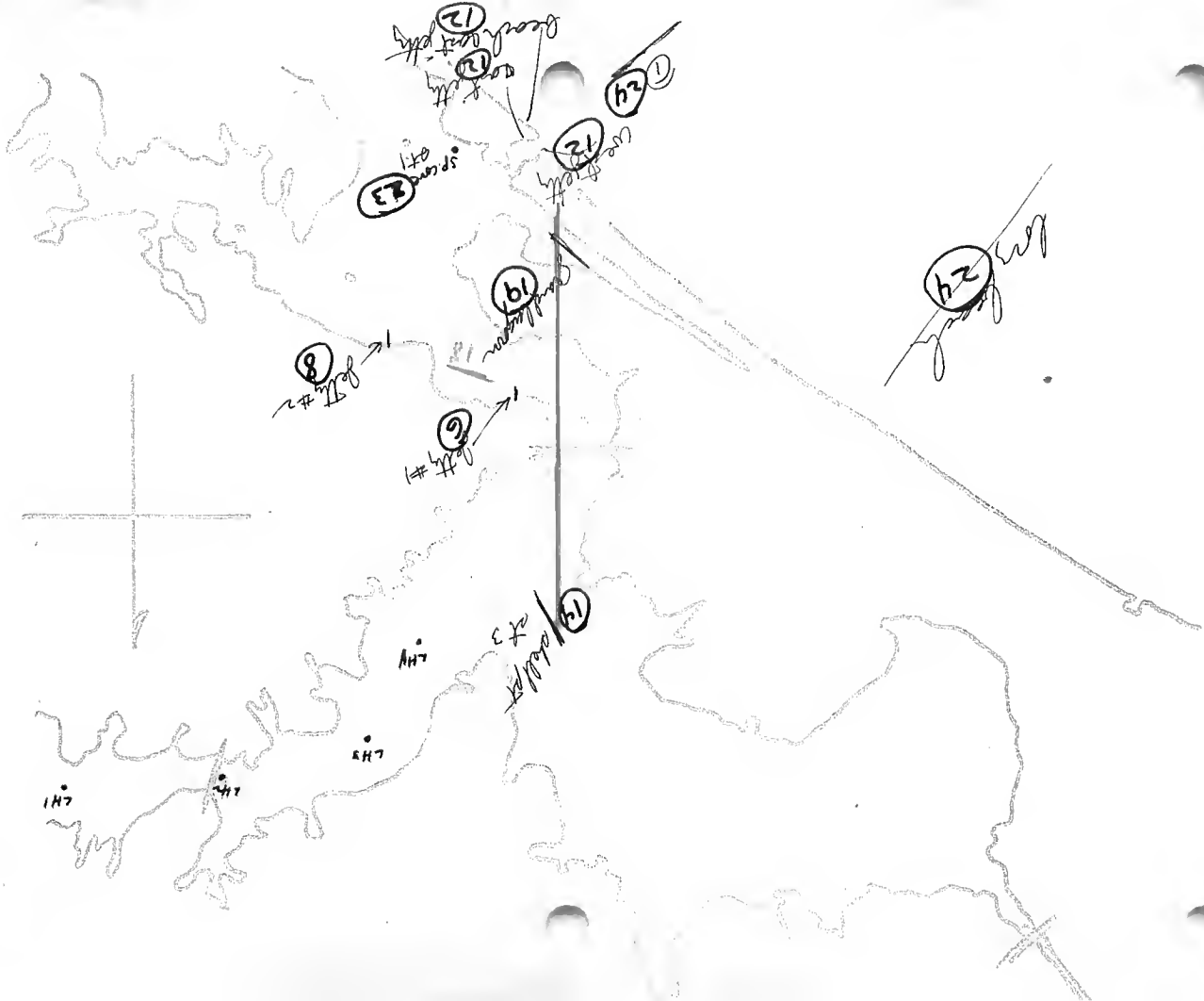
Date: 8/16/57 Location: East bay Dredge hauls

- +Crassostrea virginica Gmelin (D)
- +Grepidula plana. (L)
- +Meceneria campechensis (D)
- +Nassarius vibex (D)
- +Cantharus tinctus Conard (D)

Trawl Collection

- †Peneus duorarum Burkenroad
- +Persephona punctata aequilonaris Rathburn
- †Lolliguncula brevis Blainville
- †Callinectes ~~canadensis~~ Smith
- +Polinices duplicatus Say





17 June 1959.

Dr. M. L. Jones
Florida State Univ.
Tallahassee, Florida

Dear Dr. Jones:

Some months back I returned the
aphisians sent me to be identified. One undetermined
Amphiridial was retained until more material could
be obtained for comparison study. Recently a shipment
of Gulf of Mexico material has been received and
in working up the specimens a complete form, similar
to your specimen was in the lot.

^{postscript} The specimen you sent 2d-17I58 is
Amphirodia atra (Stimpson).

That completes all the material you sent
last year. If you run across more aphisians or
other echinoderms (other than holothurians) do send them
on for identification.

Is your Survey work continuing at
Alligator Harbor?

Yesterday we were out taking cores
in Santa Monica Bay where Dr. Gorsline had
done so much work and we found the
same hard sand bottom that bent one
coring pipe.

Will Dr. Gorsline be in So. California this
summer?

Sincerely yours
Fred Ziesenhenne

5 May 1958

Dear Meredith

The three vials you sent to J. Bernard were turned over to me and only one of three was easily identifiable as Ophiactis mülleri. One an Amphidolia seems to be a new species, that could not be located in Lyman's, Merrill's or H. L. Clark's works. That is the larger of the 3 species. The numerous smaller forms are Amphipros, and as yet a species name cannot be assigned to it.

It seems you have a gold mine of material there, especially the muddy bottoms. There seems to have been very little collecting in your area, and mud flats have not been worked.

We found by placing brittle stars in seawater with a table spoon of footbath variety Epsom salts added prevented the rascals from throwing off their disks. Until they are better known, the disk and mouth parts must be retained intact, as the disk alone is not much help, and watching the wrong side and mouth parts is embarrassing too.

The material is very promising and will be interesting to work up. Thank you for the rich material you sent.

Give my regards to Goslin and from the TV weather reports it is finally warming up in Florida.

We still can see snow on the Mts. despite some 95° + 90° days a week or so ago.

Sincerely
Fred

UNIVERSITY OF SOUTHERN CALIFORNIA
ALLAN HANCOCK FOUNDATION
UNIVERSITY PARK
LOS ANGELES 7, CALIFORNIA

29 Aug. 1958

Dr. M. L. Jones,
Oceanographic Institute
Florida State Univ.
Tallahassee, Florida

Dear Dr. Jones

Your shipment of Ophiurans arrived safely.

They have just been unpacked and they are an interesting lot. As soon as I return from a few days vacation I shall start work on them.

The 26 & 27 Aug. we had Donn Gorsline aboard the Veleo II as our only Scientist and spent the 2 days running contours around and over the San Pedro Basin, between St Catalina Island and the mainland.

We have a P.D.R. (Times facsimile) device hooked up to our old fathometer and it prints 200 fms over an 18" scale in great detail. So fine are the adjustments that one must watch it constantly when the depth changes occur.

Donn was on the bridge for a full day and we were able to visit and feed him a bit. By my guess he is rolling Eastward in his car.

Sincerely

Fred. (P.S. No. Ph.D.)

61
Pflanzensammlung
13 Nov 58

Pecten mitchellii var. Thelliersi

Pagurus longicauda 5

Pagurus floridanus 5

Callinectes vittatus 5

Hyas coarctatus 5

Naucoria nitida

Naucoria sp.

Strenaria angulata (in Pecten shell)
Crepidula plana ^{on surface} on ground shell

Corporation # 14
14



1 up



✓ = specimen(s) in possession of King

x = no specimen

ISOPODA AND CHELIFERA FROM PANAMA CITY, FLORIDA

Order Chelifera

Family Tanaidae

- ✓ ^{potter} Leptocheilia rapax- 4-3; 11-1; 1-B; 5-2; offshore

Family Apseudidae

- ✓ Apseudes sp. 1- offshore- 2 spines on basal article of peduncle of first antenna.
- ✓ Apseudes sp. 2- offshore- near A. propinquus- differs slightly in degree of spination and shape of segments. Rostrum markedly different.
- ✓ ^{potter} Apseudes sp. 3- 5-A; no spine on basal article of peduncle of first antenna.

Order Isopoda

Superfamily Flabellifera

Family Gnathiidae

- ✓ Gnathia sp.- offshore, not in Richardson

Family Anthuridae

- ✓ Cyathura carinata (?) - offshore; differs in size markedly from above but anatomically similar.
- x ~~xxxxxxxxxxxxxxxx~~ - offshore; marked as Fam. Anthuridae- may be new genus, check Hyssura Norman and Stebbing. The seventh pair of legs is absent.

Family Sphaeromidae

- ✓ ^{potter} Sphaeroma quadridentatum- 7-5
- x ^{potter} Sphaeroma destructor- 8-2

- x ^{noted}Cilicaca sp. 1- 47-2; — 9 IV 58
x ^{noted}Cilicaca sp. 2- 3-D;

Superfamily Valvifera

Family Idotheidae

- x ^{noted}Fam. Idotheidae- 47-2; antennae missing and in poor shape
✓ ^{noted}Erichsonella attenuata- 11-3; 6-4; 5-2

LMI = Lerner Marine Lab. N. Bimini

MDL = U.S. Navy Marine Lab, Miami Beach, Fla.

BMB = Bayward Beach, Bimini, Fla.
Whale Buoy " " "
Mud Cove " " "

MSC = Marine Science Center, St. Johns Bay, Florida

Pottery Point ^(St. Johns Bay) = Pottery Point, St. Johns Bay, Fla.
Hathaway Bridge = Hathaway Bridge, St. Johns Bay, Fla.
Beena Point = Beena Point, St. Johns Bay, Fla.
Red Hill + ... Pt. = Red Hill, St. Johns Bay, Fla.
Island Pt. = Island Pt., St. Johns Bay, Fla.
Baker Pt. = Baker Pt., St. Johns Bay, Fla.

LCO = LCO

John H. ...

ONR = Office of Naval Research

DTA = D.T. ...

SJB = Saint John's Bay, ...

Collection 1 Fri. 20 Sept. 57 ± 1130-1330

c Neil Hulings at southern end of Du Pont bridge - mouth of East Bay.

- X 1-A from wooden pilings and at and below water line
- X 1-B ^{Duffin} grass flats - roots & in sand
- X 1-C ~~fla~~ water-logged wood
- X 1-D sand flats
- 5 1-E contents of submerged bottle

Collection 2 Wed. 2 Oct 57 ± 1330-1600

just SE of opening of Lake
Huntington (NE of St. Andrews)
± 3 ft of water.

2-A sieved substrate of grass flats ^{Diplanthes} (~~non Thalassia~~)

~~X~~ 2-B scrapings of surface of grass flats ^{Diplanthes}

2-C sieved substrate of Thalassia

~~X~~ 2-D scrapings of surface of Thalassia flats

~~X~~ 2-E epi-flora + fauna on bricks + shell.

~~X~~ 2-F epi-flora + fauna on Atrina sp. (?)

Collection 3 Thurs. 3 Oct 57 ± 1330-1600

Offshore near base of Sulphur Pt.
at E. end of Wayside picnic
area (± 3/4 mile E of E end of
Hatheway Bridge.) fronting on West Bay.

- 3-A Seived substrate of ^{Deep} grass flats } ± 50 yds offshore
 S 3-B Scrapings of surface of ^{Deep} grass flats } ± 2 1/2 ft deep
 B-C Seived substrate of Thalassia } ± 60 yds offshore
 X 3-D Scrapings of surface of Thalassia flats } ± 3 ft deep
 3-E-1, 3-E-2, 3-E-3 - small bottles of seived
 sandy bottom (one shovelful) ± 30 yds offshore
 3-F-1, 3-F-2, 3-F-3 - epi- + endo-bios of various
 types of wood (3-F-1 = water-logged board;
 3-F-2, small branch; 3-F-3, small branch

Collection 4 Fri. 4 Oct. 57 ± 1330-1430

off shore at Magnolia Beach (near
Bear Pt. - SE of USNMDL) fronting
on Western St. Andrews Bay. ± 2 1/2 ft.

- X4-1 contents of Coca-Cola bottle
 X4-2 Seived substrate of grassflat
 S4-3 Seived scrapings of surface of grassflat

4A at West Bay (town) on N. shore ± 150 yds NE of
 bridge on Juncus + Salicornia + free on
 surface — Littorina irrorata, Melampus ^{identata}
Uca sp. L. irrorata to R. Stohler in + 20%
 no pupyl; Melampus to E. Paulson alive, if possible
identata (to S. Morrison)

Collection 5 Wed. 9 Oct 57 1100 - 1300

off shore at Haven Pt. ~~SE of~~ W. of
Lynn Haven. to \pm 3 ft (close in shore -
rapid drop off - many mud tubes in sand
of near. shore.)

- X 5-1 Surface scrapings of sandy near shore
- X 5-2 Surface scrapings of grass flats
- X 5-3 Seivings of substrate surrounding roots of
grass of grass flats
- 5-4 Collection from grass (Sedge?) and from seined
substrate in this area. (Melampus present)
- ✓ 5-5 Littorina irrorata for R. Stohler. (preserved in
70% isopropyl.)

Collection 6 Wed. 9 Oct 57

1330-1530

Offshore at College Pt. (?) E. of
Lynn Haven. (More mud turtles as in
collection 5 - no Melampus although
sounded for specifically) to \pm 3 ft.

S 6-1 Surface seivings 5 yards from shore or less
in up to $1\frac{1}{2}$ ft. of water.

6-2 clam and worm from about same location
as 6-1.

X 6-3 Surface seivings - sandy bottom - \pm 15-20
yard out from shore.

X 6-4 Surface seivings in ^{Diplanthera} grass flats - \pm 40 yards
offshore.

X 6-5 Epi fauna on tree branches in water

S 6-6 Fauna from area of grass ~~in~~ (shore sldges,?)
on stems or leaves or on the bottom in the area.

Collection 7 Fri 11 Oct 57

± 1000 - 1130

offshore on Little Oyster Bay? (± 1500 yards
West of Little Oyster Bay Pt.) on Tyndall AFB
property - fronting on East Bay. to ± 3 ft.

- X 7-1 Surface seivings - inshore close - 10-15 ft out - ± 6" deep
- X 7-2 Substrate seivings of samp. 7-1 area.
- X 7-3 Surface seivings grass flats ± 15 yds off shore ± 2 1/2 ft deep
- X 7-4 Substrate seivings of samp. 7-3 area.
- X 7-5 Epi- + endo-fauna of various pieces of wood.

Collection 8 Fri. 11 Oct 57 ± 1200-1230

Near head of Baker Bayou (Between Strange Pt. and Baker Pt. - drains into eastern East Bay) where road to Farmdale crosses on bridge, from U.S. Hwy. #48.

8-1* Littorina virorata Melampus sp. and Uca sp. et al. from juncus and juncus bases. Uca from cleared sandy area. (in isopropanol 70%)

* 8-2 Seivings from clear sandy area near bayou edge + crabs on surface + green filamentous algae on juncus stem in water.

8-3 Oysters + epi-fauna from bridge support. (in isopropanol 70%)

* Most of The Littorina to R. Stohler

30 Melampus bidentatus to JPE/Morrison USNM

30° 06.8' N
85° 40.8' W

9

Collection 9 Fri. 11 Oct 57 ± 1300-1530

off shore NE of Beacon Beach (± 1.5 miles),
± 1/2 SW of Davis Pt. — opposite Hurricane
Island on Tyndall AFB property —
(Camp Merrill — a boy Scout Camp ground)
various depths.

~~X~~ 9-1 Surface ^(sandy) sample in close to shore ± 10 ft — 12" deep

9-2 Substrate seiving of samp. 9-1 area

~~9-3 Ceriantharia ⁽³⁾ from sandy area ± 10 yds
from shore — ± 18" deep.~~

9-4 Surface seiving of grass flats ± 15 yds from shore
± 2-2 1/2 ft deep.

S 9-5 Substrate seiving of samp. 9-4 area

9-6 Assorted macrofauna ^(in ± 70% ungrazed) in grass flats area.

9-7 Surface seiving Thalassia flats ± 30 yds from shore
3-3 1/2 ft deep.

~~X~~ 9-8 Substrate seiving of samp. 9-7 area.

S 9-9 Ento- and epifauna of various 1. rods.

S 9-10 Contents of two beer cananda jar ± 10-20
yds. from shore To O. Hartman new app.

9-11 Medusae from surf. Also a decomposed
Beard Cephalopod which was not saved.

Collection 10

13 Oct 57

1500

offshore in Gulf water ± 100 yds at
 St Andrews State Park - collected
 hydromedusae and ctenophores.

~~Aequorea? sp~~~~Ocyropsis?~~~~Eutima-like~~~~Mnemiopsis~~

many hydromedusae with symbiotic coelenterates
 (anemones?) + 1 amphipod.

Collection 11 14 Oct 57

± 1500 - 1600

Off shore at "Woodlawn" subdivision
 ± 800 yds north of west end of
 Hathaway Bridge - various depths
 to ± 3 ft.

- X 11-1 Surface seining of inshore sand - ± 30 ft from shore in ± 1½ ft of water.
- X 11-2 Substrate seining of stat. 11-1 area.
- X 11-3 Surface seining of ^{Depositional} grass flats - ± 50 ft from shore in ± 2½ ft of water.
- 11-4 Substrate seining of stat 11-3 area.
- X 11-5 Surface seining of Thalassia flats ± 75 ft from shore in ± 3 ft of water.
- X 11-6 Substrate seining of stat 11-5 area.

Collection 12 14 Oct 57 ± 1630

off shore at Long Beach - in surf
± 25-50 ft from shore in 2-4 ft of water

12-1

hydromedusae : Eutima-like
Aequorea-like
Ctenophores : Beroë?
Ocyropsis? Maenipia
perhaps other lobata
symbiotic anthozoa on medusae
on amphipod

12-2

hydromedusae : Eutima-like
Aequorea-like
Siphonophore parts
symbiotic anemones on medusae
Salps
Copepods
a Beroë ✓

Collection 13

18 Oct 57

± 1130

C.N. Halving, R.W. Menzel, + C. Hodges in
MDL Skiff. from red buoy "20"
between Bunkers Pt. + Smack Bayou.

S 13-1

Scrapings from Buoy.

Collection 14

18 Oct 57

± 1140

Party as in Coll. 13.

From black buoy "21" off Town Pt.

14-1 scrapings from buoy (MJ)

S14-2 scrapings from buoy (NH)

14-1

14-2

- ✓ Nereis pelagica occidentalis
- ✓ Heteronereis of N. pelagica?
- ✓ Neanthes succinea

Collection 15

18 Oct 57

± 1150

Parties in Coll. 15. From Beacon
 "25" off Town Pt. (mis-labeled Beacon
 25 on bottle label, field)

15-1 Scrapings from piles (MJ)

15-2 Scrapings from piles (NH)

§ 15-3 Epifauna on metal frame (+ 2 Styela)

15-4 Epifauna on concrete construction: brick (+
 a Styela)

Collection 16

18 Oct 57

I 1200

Party as in Coll. 13 from Smack
Bayou

16-1 Sponge from ± 3ft

16-2 Littorina from Spartina To Stohler

Collection 17

18 Oct 57

± 1220

~~to~~ mud bottom sample ± 1000 yds
NW of Redfish Pt.

17-1

a single square core sample.

Collection: 18

18 Oct 5-7

± 1245

from black buoy "9" NE of
Channel - E of St. Andrews
State Park.

18-1 Scrapings from buoy (MJ)

JS 18-2 Scrapings from buoy (NH)

Collection 19

18 Oct 57

± 15-30

from ^{red} buoy "N2" just South of
Hathaway Bridge.

19-1 Scrapings from buoy (MG)

19-2 Scrapings from buoy (NH)

Collection 20

21 Oct 57

± 1430 - 1600

offshore, just W. of mouth of Baker Bayou (near Gulf Oil storage tanks). different from other shore around the bay in that sandy bottom extends out so far - grass flats are present but give way to more sand - no Hallassia encountered. 1ft - 3ft deep

- 20-1 Surface sieving - 10 paces off shore - 1 ft deep
- 20-2 " " - 50 paces off shore - 2 ft
- 20-3 " " - 90 paces off shore - 2 ft
- 20-4 " " - 130 paces - grass flats - 2 ft
- 20-5 " " - 170 paces - sand - 3 ft
- 20-6 Casts of Limulus + hermit crab - Polinice shell. ^{synthetic hydrocarbon} Hydractinia
- 20-7 Sieving of microcosm in bottle. ± 10-15 paces out - 1-1 1/2 ft deep.

Collection 21

24 Dec 57

Random scrapings from "Battleship Buoy" on dock at MDL. Buoy was brought in previous day and left out in water over night. Two bottles (21-1 + 21-2). Seen were: glass sponges, bright red sponges, anemones, amphipods, clams, a few worms, some algae, green barnacles, bryozoans. Preserved in 70% IPR off.

Collection 22 31 Dec 57.

first of series of settling plates - 2 small asbestos plates + 1 large tile from Pottergeist pier.
(small #7 + #15; large #20) preserved in 10% formalin

- 22-1 # 7
- 22-2 # 15
- 22-3 # 20

Collection 23 9 Jan 58

second collection from settling plate series -
2 asbestos plates (N.B. - float and rack with
tiles was lost - frayed mooring line all that are
left - scrub tiles) from Pottergeist pier.

23-1 # 5

23-2 # 9

23-~~3~~ Scyphomedusa } from Pottergeist pier

23-4 Scyphomedusa } this date, ± # 14-1500

✓ # 23-3 *Rhopilema verrillii* Fensholt (?)

✓ # 23-4 *Cyanea capillata* Eschscholtz (?)

C. capillata ^{juv} pinkish general color - red radial stripes
(narrow) brown tipped tentacles, colorless oral arms

R. verrillii ^{juv} yellowish general color - reddish brown
tips of arms and of scapulets.

Collection 24 10 Jan 57

from along MDL wharf (± 14-1500)

24-1 1- large *C. capillata* ✓

24-2 1- large *R. verrilli* ✓

24-3 1- $\frac{1}{2}$ medium *C. capillata* \bar{c} redplotted on endium

24-4 2- medium *C. capillata* ✓

24-5 1- medium *R. verrilli* ✓

24-6 { 1- small *R. verrilli* ✓

7 { 1- small *C. capillata* ; 1- *Nemopsis*? sp.

N.B. *C. capillata* & *Nemopsis* sp. noted periodically
until + including 27 Jan 58

Collection 25 15 Jan 58

Third collection from settling plate series

25-1 # 21

25-2 # 22

Collection 26 attached sheet. 17 Jan 5-8
(testing gear) Colls. 29-33

Collection 27.

18 Jan 58

27-1 on Jetty at St. Andrews State Park. (C. M. Howett & Bill class Bay Hi.)

Sabellaria floridensis

27-2 inside of Jetty - sand + under rocks.

<p>27-1</p> <p><u>Sabellaria floridensis</u></p> <p><u>Pomatoxera?</u></p> <p><u>Merippe mercenaria</u></p>	<p>27-2</p>
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Coll. 28

22 Jan 58

↳ the collection from settling series.

8 + #16

28-1 #8

28-2 #16

Coll. 29 17 Jan 58 equip test.

near red buoy NW of Hathaway bridge

- a. core (one) (= 1a 17I 58)
- b. plankton (= 1b)
- c. 1/2 van Veen (= 1c)

Coll. 30 17 Jan 58 equip test
in mid channel off shipyards

- | | |
|------------------|---------------|
| a. core (one) | (= 2a 172/57) |
| b. deep plankton | (= 2b) |
| c. 1/20 Van Veen | (= 2c) |
| d. trawl | (= 2d) |

nr. buoy C₃

Coll. 31 17 Jan 58 Equip test
near turning buoy (+beacon) in mid. St A. B.

a. core (one)

= 3 a 17I58

b. deep plankton

= 3 b

c. "20 van Veen

= 3 c

d. Trawl

= 3 d

coll. 32 17 Jan 58 equip test.
 near red buoy "20" betw. Town + Bunker Pt.

a. core (one)	(= 4a 17258)
b. deep plankton	(= 4b)
c. $\frac{1}{2}$ van Veen	(= 4c)
d. trawl (+ 2 hemulus)	(= 4d)

Bl 33

17 Jun 58 equip test.
 between Redfish + Davis Pts ± 1/2 mile offshore
 a. core (one) (= 5a 17I58)
 b. 1/20 van Keen (= 5b)
 c. track (= 5c)

✓
 33a cosme delta

Coll. 34

27 Jan 58

open Beach at MDL - macroplankton
washed up.various Ctenophores 12 collected
NemopsisC. capillata not collected

Coll 35

~~along MDI Park~~

29 I 58

Rhopilema birdii rossiellii~~also sighted C. capillata~~

5 scrapings from BB buoy - 1 yr. in Bay between
 Pottery ~~site~~ + shipyard

Embletonia sp. to J. Steinberg

Coll. 36

29 Jan 58

5th collection from settling series

#12 + #19

36-1 #12

36-2 #19

Coll. 37

29I58

Rhopilema ✓ verillii
~~also~~ sighted P. capillata
along MDL Dock

Coll 38

30 Jan 58

scrapings from BB buoy from \pm 1 mile south
of channel (jetty) - length of time in water unknown.

all 39

5 Feb 58

6th collection from getting series

#4 + #1

39-1 #1

39-2 #4

coll. 40

12 Feb 58

7th collection in setting series.

#2 + #14

40-1 #2

40-2 #14

Coll. ~~3~~ 418th pr. from settling series.

19 Feb-58

#'s unknown. 2 plates

41-1

41-2

Coll 42

2 plates from settling series, 9th m. 26 Feb-58

42-1

42-2

Coll. 43.

10th pr. from settling series (last of winter series)

5 Mar 58

43-1

43-2

Coll 44

2 Apr. 58

first pr. of spring netting series.

#17 + #24

44-1 → #17

44-2 → #24

Coll 45

9 Apr 58 2nd of Spring Ser.

#9 + #22

#9 → 45-1

45-2 #22

Coll. 46 ~~#1~~ Apr 16/Am. 58 3rd of spring ser.

2 + # 12

46-1 # 2

46-2 # 12

Coll 47 9 Apr. 58

~~X~~ 47-1 seivings from sand ^(+ fish) + mud at Poltergeist Pond

~~X~~ 47-2 seivings from sand at base of Polt. Pier.

Call 48

48-1 # 1

48-2 # 11

Cell 49 2 May 88

49-1 #14

49-2 #21

Coll 50

14 May, '88

50-1 #15

(#13 lost)

Call 51 (out of order) 23 Apr 55

#7 + #8 51-1 #7
51-2 #8

Coll 52 (coll 8A) 21 May 58

#10 + #19

Coll. 53

Coll 9A ~~#~~ 28 May 58

5 or #6

(# 13 lost)

coll 54

5 Oct 58

various trawls - D. Allison + T. Hopkins.

54-1 from approach buoys seaward of Hathaway bridge
to approx. shipyard in channel.54-2 from shipyard to approx. Buena Vista Pt
in channel54-3 from between Redfish + Davis Pt. nr. obstruction
past platform toward mouth of Grand Lagoon
just short of jetty channel.54-4 from about 1/2 way to sea buoy in toward jetties
to near Buoy 1+2.54-5 shore collections from ~~jetties~~ east jetty.

100 X 7

Coll 55

4 Oct 58

from pilings at Pottery Pier.

55-1 ~~sheephead~~ ^{spade fish} (fish)55-2 ~~from~~ sessile animals from pilings

Coll. 56

11 Oct 58

East jetties

C Survey Man. Sci. Class from FSU

- 25 Oct 58
- Coll 57 Hopkins Allison & Forbes
- 57-1 various trawls: Hurricane Island → Davis Pt
- 57-2 " " along jetty (east)
- 57-3 " " Grand Lagoon
- ~~57-4~~ 57-4 swimming collection.

23 Oct 58

coll 58 c Hathaway + the Köhlers
east jetty.

23 Oct 58

Coll 59

from buoy (red) 2 at main channel

Coll. 60 3 Nov 58 from area of
Pottery Pier.

- 60-1 oysters & associates from pilings of pier
± 6" above low water today.
- 60-2 as above but ± 4" below water
- 60-3 as above but ± 18" below water
- 60-4 pink sponge & tunicate on oysters at about ^{low} water line
- 60-5 Menippe from rocks.
- 60-6 - Sargassum? with hydroids.

Coll 61 area of Polt. Pier
hermit crabs etc.

13 Nov 58

coll 62

12 Nov 58

sponges from Polt, Per

Sent off for identification

- 22 IV 58 Cadet: assorted metusae - plankton - Polt Pier 4 IV 58
 Planktonic polyp? \Rightarrow "
 Euphysea? sp. etal 17 I 58 5c = 33-c
 anemones + hydroids 15-3
- 22 IV 58 Joan: nudibranch + caprellid 17 I 58 5c = 33-c
- 22 IV 58 Fran: Nemertine 17 I 58 2d = 30-d
 nemertine - white (2 IV 58) 47-2
 nemertine - flesh colored (31 III 58) 47-2
- 22 IV 58 Reish: Cossura delta 17 I 58 5c = 33-c
- 22 IV 58 Fred Ziesenhenn: ophiroid 27-2
 ophiroids 17 I 58 2d = 30-d
- 22 IV 58 Jerry: amphipods 17 I 58 5c = 33-c
 " 17 I 58 2d = 30-d
 " 21-2
 " 27-2
 " 47-1
 " 47-2
- 22 IV 58 Fran Guillan: 3 vials of Nemopsis plankton MDL dock + Polt. Pier
- 22 IV 58 Olga Hartman: 2 vials of Capitella aciculata
- 22 IV 58 Cadet: Tubularia actinula? plankt. Polt Pier 4 IV 58
 anemones from Rhopilema polt pier 9 IV 58

29 Apr 58 to H. Humm algae from: 9-10; 6-6; 4d 17 I 58; 2d 17 I 58;
 5c 17 I 58; 7-1; 6-4; 21-2; 1-B; 8-2; 2-B; 18-2;
 3 D 17 I 58; 47-2; 35.

12 AUG 58: To Stabler: Littorines from: Sugarloaf Key, St. Marks Light Horseshoe Pt.,
 Vaca Key, Naples, Sarasota, Punta Gorda, Sanibel Island,
 Spanish Harbor Key, west Key West, Key West USN Hosp., Allig. Harb.,
 Mr. Key Largo, Tampa Bay
Acanthochiton pygmaea (SMS)
Chaetopleura sp (SMS)
Ischnochiton papillorum (SMS)
 RT Smith Spirula
 O Hand anemones 14-2 (PC.)
 " 35 (PC.)

F. Crandall: Tetrastemma caudatum (Forbes)
J. Steenberg: Nudibranchs (SMS)
" 3-B
" 35
" 14-2
Piliny caprellids (OSC)
(SMS)

F. Ziesenhenn

Small ophiroid
Whistle Buoy Area
L'Anse au Loup
T. Mozula
St. Teresa gunflats (2)
on Clione
5B-B

J. Barnard Amphipods

P.C. 35
18-2
6-4
3-B
4-1
14-2
9-5
4-3
6-4 gammarid
6-4 Photid
6-4 Ampeliscid
4-1

A.H. Harstonia 2A-13
on pilinys
Whistle buoy dredged
5B-A (= #1)
Spanish Harb. Key

Guillian Medusae from Bay north channel
Clytia Parastarte