

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 oerstedii 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?

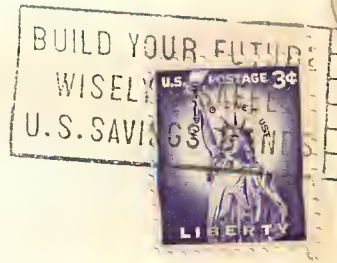
Sincerely,



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

Enclosure: Reprint.

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

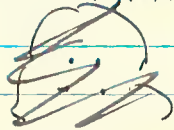


Dr. Meredith Jones
Co Research Division
U.S.N. Mine Defense Lab.
Panama City
Florida

Prorhynchus 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 setae ± 14th

anal crest not obvious if present



6R-14R-25R-40R



post-seg
5 obvious
lobes.

Promospio cirrifera Wern

10. IX 63

SPIONID

CORAL, CAPE LOOKOUT, NC, L. R. McCLOSKEY

~~10. IX 63~~

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

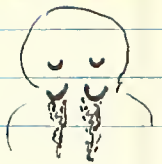
branchiae from 4th setiger to 12th (at least 9 pairs)

ventral lobe from 2nd setiger

nerve hooks from 18th

noto hooks from 46th

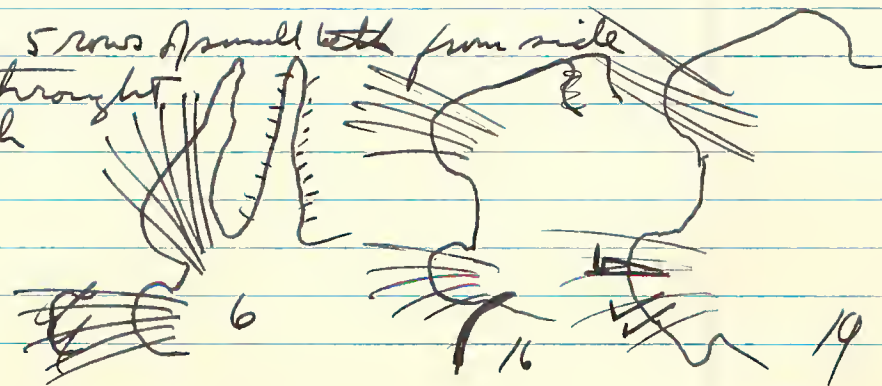
sub-saber setae from 16th



hooks multidentate \pm 5 rows of small teeth from side

2 obvious furciles through

heavily ciliated branch



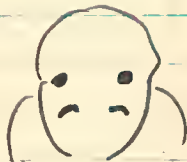
6R-19R-16R-48R

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

4 XI 63

± 16 ant segs; no post.

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

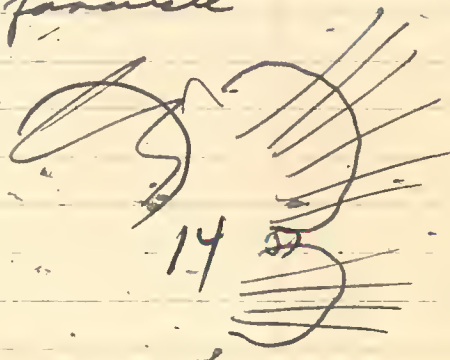
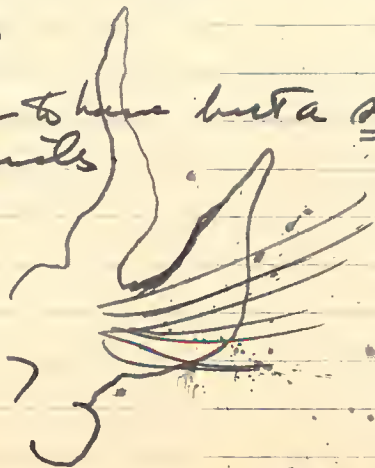


branchiae from 1st & 11th (at least 11 pro)

ventral lobes from 2nd
and crest to 2nd

vent sabre setae?

setae 1-13 appear to have but a single family
14 has 2 families



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 ~~Kalidium~~ 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*

17I58 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

17I58 2d

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

} on *Cymodocea manatorum*

17I58 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.

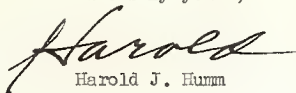
I hope I will be invited to teach marine algae at Alligator Harbor sometime in the future. If I do, perhaps you can spare the time to work with us and thus develop a facility with those of the northern Gulf.

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 ~~saved~~^{used} 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.)
- Ophiothrix angulata (Say)
- Ophiactis mulleri (Ltk)
- Amphiplex 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 smoggiest weather in history during Sept-Oct.

Sincerely Fred

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

(X) *Stephenclepis hispidus* Linne(L) see *Sastry* - what is it?

#2

- † *Arenaeus oribarius* 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 arotica* 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 artioulatus* Say (L)
- † *Chione intapurpurea* Conard (D)
- * *Echinaster spinulosus*
- † *Cancellaria conardiana* Dall (D)
- † *Anodontia alba* Link (D)
- † *Aequipecten mucosus* Wood (D)
- † *Aequipecten irradians concentricus* (D)
- † *Barbitta tenera* C.B. Adams (D)
- † *Ostrea equestris* Say

#2

- † *Astropecten artioulatus* Say (L)
- * *Crepidula plana* Say (L)
- † *Crepidula plana* Say (L)
- * *Laevicardium laevigatum* Linne (D)
- † *Chione intapurpurea* Conard (D)
- * *Cerethium floridanum* Morch (D)
- † *Glycymeris pectinata* Gemlin (D)
- † *Phalium granulatum* Born
- * *Conus sozoni* Bartsch
- * *Conus senectorum* 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
- † *Dorsinia 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 tincta 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 tincta Van Name (L)

~~Note: As recall, these collection are made by living so these two must have been in the same place and hence listed separately.~~

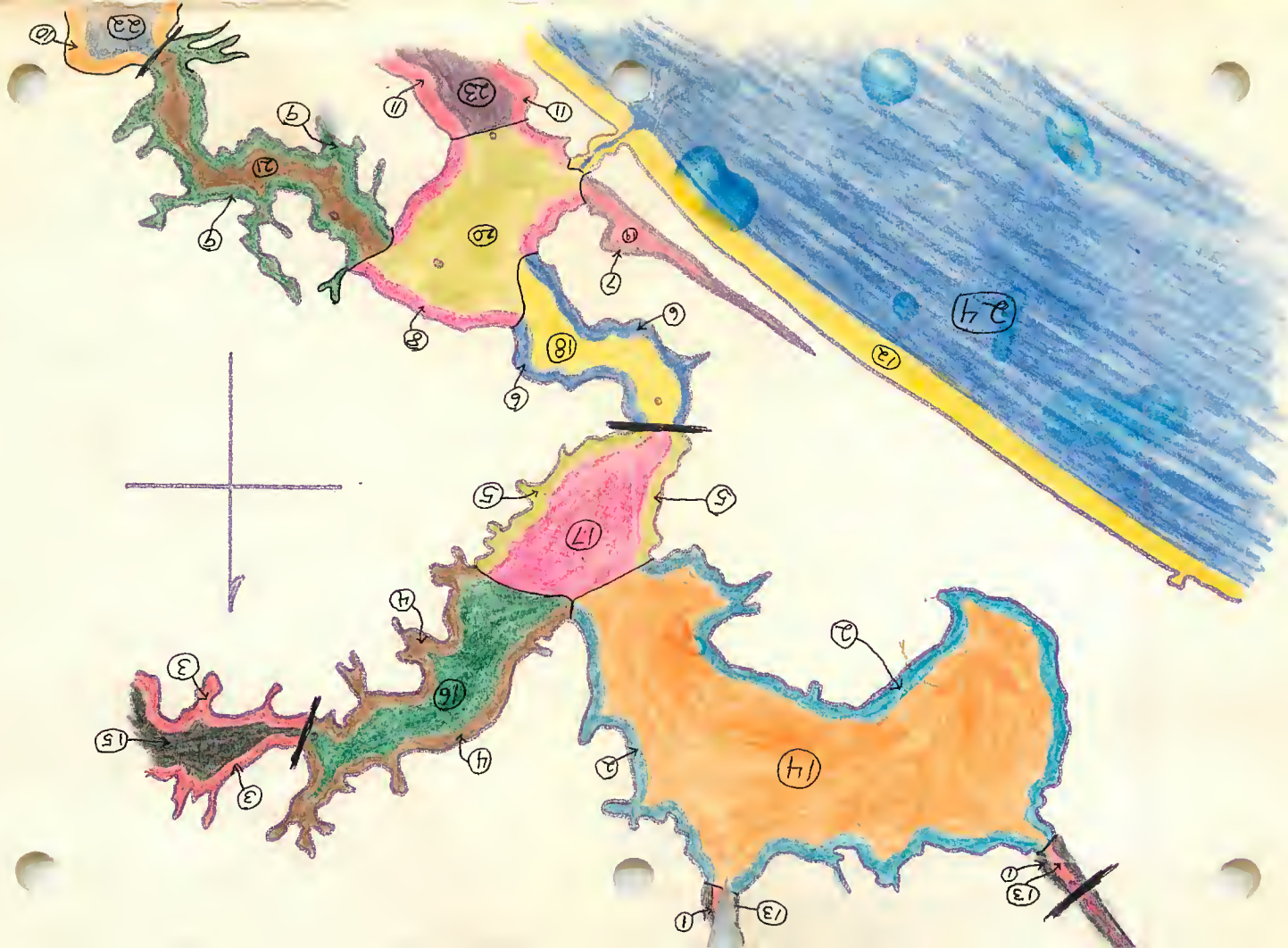
- (L) Living when collected
- (D) Dead specimens when collected

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
- +Polinises duplicatus Say





17 June 1959.

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

Dear Dr. Jones:

Some months back I returned the aphirans 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 aphirans 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 identified as Ophiactis mülleri. One an Amphidion 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 Amphipods 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 bottle-stops 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 slide 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 waveform 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 now I guess he is rolling Eastward in his car.

Sincerely

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

61
Pflanzl. anst. Halle
13 Nov 58

Pecten mathusini Conr. Thellier

Pagurus compressus 5

Pagurus floridanus 5

Clitellina nitida 5

Hyas ardens 5

Naucoria nitida

Naucoria sp.

Strenaria simplex (in Pecten shell)
Crepidula flava on surface of shell -

Corophium #

14



top
↓



ant 1



✓ = 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

LMF = Lerner Marine Lab. N. Bimini

MDL = U.S. Army Corps of Engineers Lab,
Pompano City, Florida

BMB = Bay Branch Bar Alligator Harbor, Fla.
Whale Buoy " " "
Mud Cove " " "

MSC = Marine Science Center, St. John's, Barbados
Cedar Key vs. St. Andrew's Bay, Florida

Pottergent Pier = ^(St. Andrew's Bay) Pompano City, Fla. ^{Lynn Haven} College St
Hathaway Bridge = " " " ^{Beach}
Buena Vista Pt. " " " ^{Beach}
Redial + Lower Pt. ^{Inn Pt.} Beach, Fla. ^{Beach}
Bliss Pt. ^{Bliss Pt.}

LCO = LCO Station

Lake Park, Fla.

ONR = Office of Naval Research

DTA = D.T. Allison, St. Andrew's Bay, Barbados

SJB = Saint John's Bay, Barbados, Florida

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 ^{Duplicate} 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 (^{Diplanthera} ~~non Thalassia~~)

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

2-C sieved substrate of Thalassia

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

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

~~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 Sieved substrate of ^{Diplo.} grass flats } ± 50 yds offshore
 S 3-B Scrapings of surface of ^{Diplo.} grass flats } ± 2 1/2 ft deep
- B-C Sieved substrate of Thalassia } ± 60 yds offshore
 X D-D Scrapings of surface of Thalassia flats } ± 3 ft deep
- 3-E-1, 3-E-2, 3-E-3 - small bottles of sieved
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.

- ~~X~~H-1 contents of Coca-Cola bottle
- ~~X~~H-2 Seived substrate of grassflats
- S4-3 Seived scrapings of surface of grassflats

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 ± 70%~~
~~no pupae; 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
 \pm 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 ^{Diplanthe} ~~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"-12" 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.
- † 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 virgata 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 ± 10ft - 12" deep

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

~~9-3 Ceriantharia ^{larvae} (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 rods.

S 9-10 Contents of two beer can standard jar ± 10-20
yds from shore To O. Hartman new spp.

~~9-11 Medusae from surf. Also a decomposed
Bivalve Clathrospira which was not saved.~~

Collection 10

13 Oct 57

1500

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

Aequorea ? sp~~Cyanea ?~~Eutima - likeMnemiopsis

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 ^{Diplanthera} ~~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? Mormonopsis

perhaps other lobata

symbiotic anthozoa on medusae
an 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
Bayou16-1 Sponge from \pm 3ft16-2 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 ground the way in that sandy bottom extends out so far - grass flats are present but give way to more sand - no Thalassia encountered. 1ft - 3ft deep

- S² 20-1 Surface sieving - 10 paces off shore - 1 ft deep
- 20-2 " " - 50 paces off shore - 2 ft
- S 20-3 " " - 90 paces off shore - 2 ft
- 20-4 " " - 130 paces - grass flats - 2 ft
- 20-5 " " - 170 paces - sand - 3 ft
- S 20-6 Casts of Limulus + hermit crab - Polinice shell. ~~Hydractinia~~ ^{Hydractinia}
- 20-7 Sieving of microcom 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 water over night. Two bottles (21-1 + ~~21-2~~ 21-2). Seen were: glass sponges, bright red sponges, anemones, amphipods, clams, a few worms, some algae, goose 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 marking 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 Fenske (?)

✓ # 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 redplotted ✓

24-4 2- medium C. capillata ✓

24-5 1- medium R. verrilli ✓

24-6 { 1- small R. verrilli ✓

24-7 { 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

↳ collection from settling series.

8 + #16

28-1 #8

28-2 #16

Coll. 29 17 Jan 58 equip test.

~~near red buoy NW of Hattara, bridge~~

a. core (one)	(= 1a 17J 58)
b. plankton	(= 1b)
S. Vro van Veen	(= 1c)

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

- | | | |
|---|------------------|----------------|
| | a. core (one) | (= 2a 17.5.58) |
| | b. deep plankton | (= 2b) |
| § | c. 1/2 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)

= 3a 17158

b. deep plankton

= 3b

c. 1/20 van Veen

= 3c

d. Trawl

= 3d

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. $\frac{1}{20}$ van Veen (= 4c)

d. trawl (+ 2 hauls) (= 4d)

Bl 33

17 Jun 58 equip test.
 between Redfish + Davis Pts ± 1/4 mile off shore

a. core (one) (= 5a 17258)
 b. 1/20 van Keen (= 5b)
 c. trunk (= 5c)

✓
 34 a cosine delta

Coll. 34

27 Jan 58

open Beach at MDL - macroplankton
washed up.various Ctenophores 12 collected
NemiospisC. 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 Q. 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 settling 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. # 41

8^{1/2} 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.

5 Mar 58

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

43-1

43-2

Coll 44

2 Apr. 58

first ps. 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 ~~#10~~ Apr. 16/Am. 58 3rd of spring ser.

2 + # 12

46-1 # 2

46-2 # 12

Coll 47 9 Apr. 58

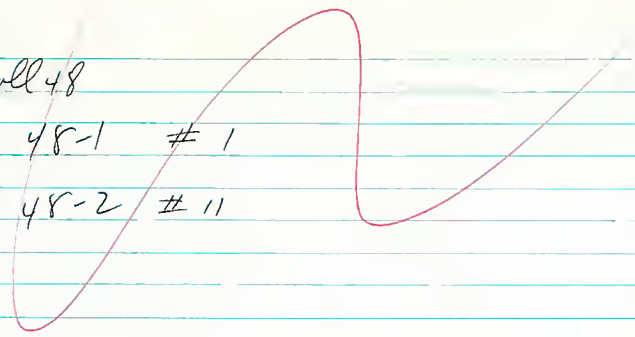
~~X~~ 47-1 seivings from sand ^(+ fish) + mud at Poltergeist Pond

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

Call 48

48-1 # 1

48-2 # 11



Cell 49 7 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

(# 18 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 jetty

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~~ ~~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 13 Nov 58
hermit crabs etc.

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 Ford + 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 papillon (SMS)
 RT Smith Spirula
 C Hard anemones 14-2 (PC.)
 " 35 (PC.)

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

F. Ziesenhenn

Small ophiroid
Whistle Buoy Area
L'Ab pier
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-B
on pilinys
Whistle buoy dredged
5B-A (= #1)
Spanish Harb. Key

Giullian Medusae from Bay north channel
Clytiacn Parastarte