August 12 – Sept. 6, 1925;
Rio de Janeiro, Brazil,
and vicinity

#1 Ilha Paquetá, Aug. 19, ~~1925~~
littoral

2 Nictheroy, Aug. 22, littoral

3 Ilha Paquetá, Aug. 23, "

4 Pedra de Itapuca, Nictheroy,
Aug. 24, littoral.

5 São Francisco

6 Conto do Rio, Nictheroy,
Aug. 26; littoral

7 ~~Up river~~ Ilha Governador,
Aug. 27; up river.

8 Off Ilha Governador; Aug. 29;
oyster dredge depth 6 meters.

9 Off Ilha Paquetá; Aug. 29;
~~oyster~~ boat dredge, depth 6 meters.

10 Off Ilha Paquetá; Aug. 29;
~~oyster~~ boat dredge, depth 4 meters

11 Off Ilha Paqueta, Aug. 29, boat dredge

12 Ilha Governador, Sept. 1, tide flats

September 9 – Sept. 16, 1925 at Santos Brazil

#13 Ponta da Rio, opposite ferry, Santos estuary, Sept. 12, littoral

#14 Collected on muddy sandy beaches between canals #4 and 5 Santos estuary Sept 13.

September 18 – 26, 1925 at Villa Bella, Ilha São Sebastião, Brazil.

#15 South of Villa Bella, Sept. 19. littoral

16 ~~at~~ Stony beach, south of ~~Villa Bella~~ hotel, Sept. 20.

17 as in #16. Sept. 21.

17a Tow net haul, in front of hotel ~~or Villa Bella~~ between 7 and 7.30 p.m. (#6 net) Sept. 21

17b. bobbing net drag, in front of hotel on bottom for amphipods, between 7 and 7.30 p.m. Sept. 21

17c Tow net haul in front of hotel 9.45 p.m (#6 net) Sept. 21.

~~16a.~~

18 Freshwater stream, south of town. Sept. ~~21~~ 22 Rio Jaguandubo

19 ~~Freshwater stream~~ Cu #18 — Rio Jaguaruna ~~and~~ ~~at~~ ~~Tom~~. Sept. 23.

20. On front of hotel, ~~Villa~~ Bella Sept. 23.

21 ~~Freshwater~~ Cu # 18 and 19, Sept 25.

22 Cu ~~Ano~~ # 18, 19, 21, Sept. 26.

22"B" Tow net hauled in front of hotel, ~~#~~9 p.m. surface, Sept. 26 (tow over 3 feet of water)

22"C" do 11 p.m.

22 "D" do 1 a.m. #

Oct. 2 ~~and~~ -3 1925

~~Cu~~ Paranagua, Paraná, Brazil

23. Oct. 2, 1925, tide flat collections

24 do. Oct. 3.

~~Cu~~ Oct. 4-10; São Francisco do Sul, ~~Paraná~~ Santa Catharina, Brazil, ~~and vicinity~~ and vicinity

25. ~~Cu~~ Praia Enseada ~~Cu~~ Oct. 6, littoral

26 Fresh water stream, at Ribeirão de Bananal, Oct. 6.

27 Ponta da Cruz, Oct. 7, littoral.

28 North end of Praia Enseada Oct. 8

29. Fresh water stream at Ribeirão de Bananal, Oct. 8.

30. Praia Utatuba in drainage ditches. Oct. 8

Oct. 10-15, 1925

#31. Rio Negro, Paraná, Brazil, and vicinity

#31. Along banks of Rio Negro above railway bridge Oct. 10

32. Along banks of Rio Negro, on Mafra side, above railway bridge, Oct. 11.

33. Fish Anop. in river, Oct. 12.

34 Drainage ditches, Oct. 12.

35 Fish pot in river, Oct. 13.

36 Cast net collection, 7-8 p.m. in rapids above railway bridge, Oct. 14.

37. Fish pot in river Oct. 15

38 Fish pot in river Oct. 16.

Oct. 17–20, 1925 Castro, Paraná, Brazil and vicinity

39. Rio Japo, ~~River~~ near railway bridge Oct. 17.

40 At Hacienda Marumbey day's trip from Castro up Rio Japo Oct. 18

41 Rio Japo above Institute Good Christ – Oct. 19.

42 Rio Japo, near railway Bridge, Oct. 20.

~~43. do. Oct. 21~~

Oct. 21 and 22, 1925; Rio Negro, Paraná, Brazil.

43. ~~Rio Negro~~ Clay river, Oct. 21

44 ~~do~~ Fish pot, Oct. 22.

Oct. 28 – 31, 1925, São Francisco, Santa Catharina, Brazil. and vicinity

45, Ponta da Cruz, Oct. 28, littoral.

46. do Oct. 29.

46 B. do Oct. 29.

47. do. Oct. 29.

48 Drainage ditches along railway right of way.

Nov. 4 – 6. Florianopolis, Santa Catharina, Brazil.

49. North end Praia da Fora, Nov. 5, littoral.

Nov. 10 – December 10, 1925, Montevideo, Uruguay and vicinity.

50. Artificial lake in Prado

51 With steam launch, 10 miles E. Isla de Flores, Rio de la Plata, Nov. 13, 1925 other travel 7 fathoms; mud

52. 7 miles ~~off~~ E.N.E of Pdr. Nov. 13. otter trawl 7½ fathoms, mud.

53. 5 miles N.E. of Pdr. Nov. 13. otter trawl 7½ fathoms mud.

54. 4 miles ~~E~~ of otter trawl 8 fathoms ~~mud~~ mud

55. 5 miles S. of ~~Isla~~ Isla Flores, otter trawl mud

56. Punta del Este, Nov. 15, littoral

57. Otter trawl, off Isla Flores. Nov. 16. 2 hauls, 5 fms., mud.

58. 13 miles S.E. of Ponton Paro, ~~off~~ Banco Inglés, Nov. 18, otter trawl 7½ fathoms, mud.

59. 10 miles S. of Ponton Paro, Banco Inglés, Nov. 18, otter trawl. 7 fathoms

60 15 miles S. of ditto. 8 fathoms mud.

61. E of ditto Nov. 18, 8½ fathoms, mud

62 Punta Cruela, nov. 21, littoral.

63. 4 miles E. of Isla de Flores
nov. 24, otter trawl, 7 fathoms, mud.

64 6 miles N.E. of Isla do.
8 fathoms. mud.

65 Cr Barro de Santa Lucia
nov. 25, tide flats by boat
~~boat dredge and shore~~ house,
~~collecting~~

66. do. shore collections
~~down stream~~ (down stream.

67. do. from boat dredge
hauls, 3-4 meters;
mud

68. Banco Arquimedes
nov. 28, otter trawl, 7 fathoms
mud

69. do. nov. 28, do 7½ fathoms

70. do. do do.

71. ~~The~~ Small stream tributary to Arroyo Miguelete, in Prado. Dec. 1.

Dec. ~~4-7~~ 4 and 5, 1925; en route to Puerto Sa Palma, Uruguay.

72 ~~1~~ Dec. 4, River at San Carlos, Low net,

73. Crabs caught on trailed fish line, river at San Carlos. Dec. 5.

74 Rocha, ~~near~~ at hotel, Dec. 5.

Dec. 6-8, 1925, at Puerto Sa Palma, Uruguay.

75 Between hotel and light house, Dec. 6, littoral

76. Low net haul from pier near hotel, ~~Dec. 6~~ Dec. 6, 9 p.m.

77. Tow net hauling surf on beach in front of hotel. Dec. 6, 9.45 p.m.

78. Far side of bay before hotel, Dec. 7, littoral

79. West of lighthouse, Dec. 7, littoral

Dec. 9 – 13, 1925, Montevideo Uruguay and vicinity.

80 Crayfishes from General Bazzano's place just outside of Montevideo, Dec. 10

81. Carrasco Creek, Dec. 11.

Dec. 13 – 28, 1925 Buenos Aires, Argentina (worked over museum collections)

82. Isla Flores, Tigre, Buenos Aires, Dec. 25.

Dec. 1966
Typewritten copy of these notes filed with Bacon Scholarship material in Expedition File.

Bacon Scholarship
1925
Stations 1 – 71
Waldo L. Schmitt
Book #1. From Aug 17 1925 to Dec. 1.

James + Esther Bacon

Water sample 16a = 1025 70°F

" " 18 = 1025 top of meniscus shade one 70°F 1/20 height

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La Mer et L'Homme. / 40 francs
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Capitan Argimon

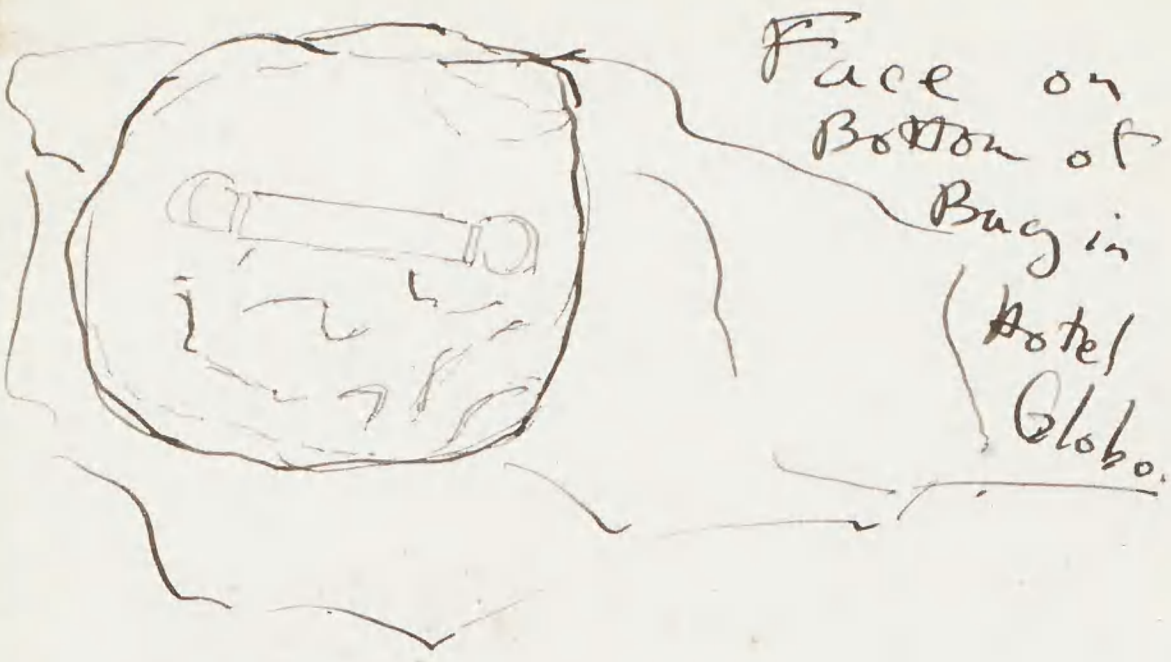
~~J. E. Brawter~~ "Instituto de Pesca No. 1"
ex "Diez" ex "Princess Royal"
Tons Bratos 284
" Red 97
Año de Construccion 1906.
Eslora 140 pies 42 metres 67
Muesa 23 " 7 " 01
Calado 12 " 3 " 66
86 N.H.P.
Construidenlos Astilleros de A. Hall Lda. Aberdeen

El Consultor Culinario por Pascal
Acaba de Aparecer 5ta ed. $1.00.

Friendships everything in this country especially Brazil (Old spanish hold over medieval when there were only friends or enemies, or no law order or security) pays to make as many as you can + keep them.

Dentist in Castro my tooth for landlady as a favor

James + Esther Bacon



TEMPERATURE RECORD.

~~No.~~ 1

Instrument used,

Current number of observation,

Date, Paqueta Ilha

Locality,

Bearings, Bay of Rio de Janeiro Brazil.

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

#1 Aug 19 - 1925

Sydgia common everywhere but hard to catch.

Xanthids everywhere two little Galathea like critters from rose bluish stain, the large slender rayed one

amphipods washed from sea weeds. collected around id, one or two crabs picked up on beach.

Callinectes from N.E section north of Brown place on warm sandy flats, shallow, stones boulders & along sea weed, on small Portunid yellow brown from mud flats

Callinectes ornatus jun.

TEMPERATURE RECORD.

Instrument used, #1

Current number of observation.

Date, Wed. 19, Aug. 1925

Locality, Ilha Paquieta, Bay of Rio de Janeiro

Bearings.

Time of day, 9 a.m. — 2 p.m. of tide flooding

Tide beginning

State of sky,

Temperature of air, Tidal flats

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms. Shore coll

Nature of bottom. Rocky, sand beaches intervening, rocks

Direction of surface current,

Force of surface current, fairly large,

Direction of bottom current. smaller over in

Force of bottom current, one or two places

Name of vessel, this applies to most

To what service attached, of east, or west

Name and rank of commanding officer, side, going

Name and position of observer. road to north from flats, only place where Hepatus & Crangon were found

Paratha
Entr de Rio

REMARKS.

#2 Aug. 22 high tide
Everything covered but
small representation of
life on rocks by Gonto
de Rio. Didn't have time
to collect more.
Small fishes from the Rio
a little stream running
through sand? but
not only hadn't water
strong enough cut off at low
tide didn't seem to have
any current, but I'll have
to go back to look at it
Crabs came from little
pool bet. two large rocks
as did most of other stuff
nematodes, tunicates etc.
Green algae all over
rocks, amphipods from there
+ Pizza Sigdaja everywhere
I think I have several of
largest; pool had a temp.
23° Cent, in maybe a shade
over water sample taken
of pool. *

Brazil

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date, Aug 22, Sat. 1925

Locality,

Bearings,

Time of day, 9.15–10.30 a.m. of tide. Low tide

State of sky,

Temperature of air,

" surface of water, in pool foot tide 18 inch

" at depth of fathoms, deep 3 feet Aug

" of bottom, = 23° + C.

Depth, in fathoms,

Nature of bottom, Sand beach beha rocks

Direction of surface current,

Force of surface ~~current~~,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

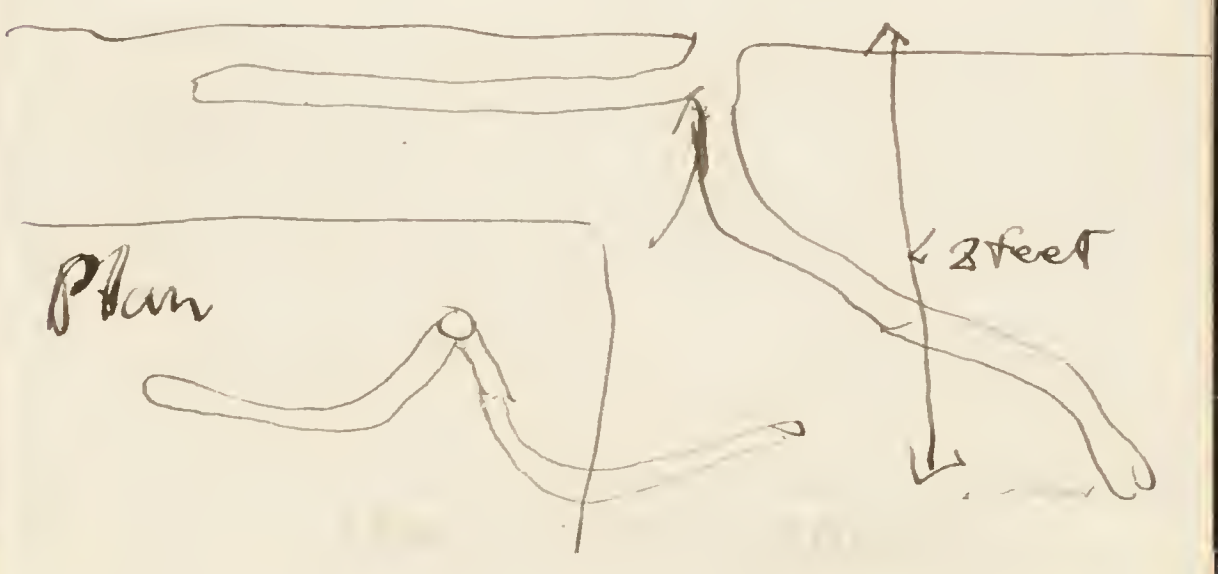
Name and position of observer,

a boy watching me pulled an Epithia gmagna clam from rock crevice, same one in which pool was, but he failed to get crab.

REMARKS.

#3 Plug in holes noticed on mud flat between large granite boulders on east side got a lot of small fiddlers, and three larger crabs latter went as deep down as 2 feet. ~~holes~~ used shovel. finger failed to getting a third of the 2 larger ones, holes seemed about 2 inches in diameter. always had a lateral passage near the surface.

(1 smaller & one 2 deep)



#3 ~~TEMPERATURE RECORD.~~

Instrument used, Aquela

Current number of observation, Aug. 23/1925

Date,

Locality,

Bearings,

Time of day, 2 p.m. ; of tide, low, about an hour in

State of sky,

Temperature of air,

" surface of water, 26 °C.

" at depth of fathoms,

" of bottom,

Depth, in fathoms, mud beach was completely uncovered

Nature of bottom, today. small

Direction of surface current, fiddlers caught by

Force of surface current, sticking forceps or

Direction of bottom current, rod in ground

Force of bottom current, at angle to intersect

Name of vessel, hole about 4 inches

To what service attached, from at or some below surface

Name and rank of commanding officer, crab always came up near

Name and position of observer, entrance & so readily caught with fingers.

REMARKS.

#4 Aug. 24.

Unfortunately got over on Pedras da Itapuca, after tide had started rising and so was unable to get much other than small stuff.

Saw a large brown mottled Porbeagle but failed to get him. Current strong lots of sea weed, but short.

Schooltes & gurnard often very scared our from rock but themselves drifting strong current all huddled up.

TEMPERATURE RECORD.

#4

Instrument used,

Current number of observation,

Date, Aug. 24 – 25

Locality, Pedras da Itapuca

Bearings, Bay of Rio, Nictheroy, Brazil

Time of day, 1.30 p.m. ; of tide, 1/4 ing

State of sky, Clear sunny

Temperature of air, in little enclosure of shore

" surface of water, 25½ C. = 77.9 F

" at depth of fathoms, ~~0 – 1/4~~

" of bottom, ~~Rocky~~

Cattled by hole approaching hole

Depth, in fathoms, 0 – 1/4

Nature of bottom, Rocky

Direction of surface current,

Force of surface current, Ph. 8 on 5

Direction of bottom current, 9 on 6.

Force of bottom current, both and others

Name of vessel, 25 n. g.

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Pedras da Itapuca

#5 Aug 25 1905

REMARKS

at Sas Magician 9 a.m.

Callinectes sapidus

"Cirrig" — quota

(leader) spun all

In morning + at night 4.30

as tide all night.

out to sea, hunt for

2 sailors, 1 midship

yesterday 15,000 fish net, 1 seine

~~Taichman~~ "Fairhaven" smaller

50 meters long

1 meter at end

8 in middle 24 min.

for sample of things

at this place

10.40 am Tankerfish

Aspella must have been on attached Gulf weed literally by the hundreds. Pieces of weed saved with algae. were stuck to algae by and

here one mile long (4000 acr

#5 Aug 25 — 25

TEMPERATURE RECORD.

1026 on 2nd reading Temp. 72°F

Salinity with Nat Rezendal Cowell 1026.3 ~~26.3~~ Temp. 71.19°F

O.K.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, Start at ; of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

2nd Lat. = 8.4

#6 Aug 26/1975

REMARKS.

Tried over to get water sample in stream found it flowing and on up stream side of bridge got a few fiddlers from holes in sand & some amphipods. saved a sand sample to find out how salt it might be; also water same.

There were some worms that looked like earthworms to.

few fiddlers from same sand.

Aug. 26

TEMPERATURE RECORD.

#6 Conc. de Rio

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 25½

" at depth of fathoms.

" ~~water~~ bottom. ~~Sample~~ B water 3 - 4 inches deep

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer.

REMARKS.

#7 Aug. 27. went up river on Governador road, shallow, muddy estuary big mud flats on either side, mangrove swamps full of crabs fiddlers etc. large Callinectes in Creeks. Had to meet Fisheries Society at 4 p.m. so could not put my specimens up. Hope to do so in a.m.

Got lots of other debris & water sample.

No end of nudibranchs some paved, all over and through bryozoa & sponges among bryozoa on outside of leaves only

TEMPERATURE RECORD.

#7 Aug. 27.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 24.9.

" at depth of fathoms, 2½ feet.

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current.

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer.

Aug. 29, 1927 11:30

REMARKS.

#8 oyster dredge

Sage de Jorra

6 meters = 3 fathoms

Governador

mud bottom shell

bags 100 meters off shore

amphioxus, ophiuran, 2 starfish

bag too near got loaded with mud.

Aug. 30 at Pedra with Onge & Green

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 24° ?

" at depth of fathoms.

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current.

Force of surface current,

Direction of bottom current.

Force of bottom current.

Name of vessel,

To what service attached.

Name and rank of commanding officer.

Name and position of observer.

#1 off Pagueta
12.00 noon
near first
River but towards landing stage
mud in bottom
half of the depth
sand in other
half / little
crab starfish
+ hagfish with
+ keep to
(1) under stones
36 m sounding

TEMPERATURE RECORD.

Ubirajára

Instrument used,

Current number of observation,

Date,

Locality, Captains -

Bearings, Pão de Costa

Time of day, ; of tide,

State of sky, Pão de Costa

Temperature of air,

" surface of water, 25. m long

" at depth of fathoms.

" of bottom,

Depth, in fathoms,

Nature of bottom, Name of 4th Indian

Direction of surface current, [illegible] in Brazil

Force of surface current, [illegible] the Portuguese

Direction of bottom current, [illegible] [illegible]

Force of bottom current, [illegible]

Name of vessel, [illegible]

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Thermometer not made sent to Washington.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

REMARKS. Bar dredge 2.30 p.m.

+ 10 Paqueta

4 meters deep

4 round excavation

Oil mixed +

forward place

near school.

Many machines

2 stations diff. spacing

Sandy bottom

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water, 25°C.

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

Wednesday 3 P.M

REMARKS.

Paqueta

11/17 meters off

bed mean

Bird mean

road stony

few shell rays

soft blue

black

mud mixed

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky, Cloudiness

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms, Paraná do Furia

Nature of bottom, Quará

Direction of surface current, 2 4°0

Force of surface current,

Direction of bottom current, Romulo

Force of bottom current, Sampaio

Name of vessel, Leal

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

Below bridge collected over mud flats. Under rocks + stones plenty of Cutter several species yellow, one purple + white, covered with stalked hydroids etc. Tiny Xanthids in crevices + cavities. got two small Crangons gray-blue + translucent white gray banded.

Shed clam night and heard more than I could find! collected bundle of sponges + debris for washing for amphipods.

TEMPERATURE RECORD.

#12 below bridge in mouth

Instrument used, ~~Aug. Sept. 1.~~

Current number of observation, Ilha Governador

Date,

Locality,

Bearings,

Time of day, 10.07 ; of tide. still near end of stream

State of sky,

Temperature of air,

" surface of water, 24 1/3 °C.

" at depth of fathoms.

" of bottom, water surface 1 fathom.

Depth, in fathoms,

Nature of bottom,

Direction of surface current, over 8 hours

Force of surface current, only to

Direction of bottom current, deep.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Presidente "Z 11" Estado Rio São Francisco

Snr. Victorino ~~Rei~~ Teixeira Gomes

Victorino Teixeira Gomes.

50 meter sardine seine seine

Snr. Alexandre ~~Robeca~~ Roza

Presidente "Z 1" Dist. Federal

Ilha Governador

Charge of Fisheries.	President of entire Confederation

19
30
31
19
19
17 (1)

Lucien Jouenne

"Pendant vos vacances, pêchez au bord de la mer Prix 12 francs. (Coll. Baudry de Saunier; E. Flammarion, éditeur).

Henry Lorenzen

C. F. Jackman

Rio Grande do Sul

Dist. Federal

Nacionalisé Colonia

Rio Grande do Sul

La Pêche et Les Poissons
nouveau dictionnaire général des
Pêches /par/ Henri de La Blanchére
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Paris, Libraire Ch. Delagrave
" " 15, Rue Soufflot, 15
has "silence.

mailler un filet.

Diccionario, illustrado, descriptivo
valorado etc. /por/
/Benigno Rodriquez Santamaria/
Cabo de mar de puerto de 1.ª clase,
Conservador de la Sección de Pesca del
Museo Naval.
Madrid Artes Gráficas "Mateu"
Paseo del Prado, 30
1911

Federico Schweizer

REMARKS.

Fiddler crab.
Uca pugnax.

#12 Up river at old bridge culvert

Water temp 31 + °C.

Water very M.

morning tide

Ruined good picture

A hole in ground by taking off back before inserting slide. Got a good representation of fiddlers up river where I was the other day.

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, 12 mor; of tide, just ~~about~~

State of sky, shortly after burn

Temperature of air, running water slowly

" surface of water, temp + sample taken off

" at depth of fathoms,

" of bottom, old culvert

Depth, in fathoms,

Nature of bottom,

Direction of surface current.

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer.

#13 Sept. 12. 25

REMARKS.

Start at 9.50 blow and on way to beach in auto truck of Confederation dos Pescadores.

Rising tide / low at 9. a.m.

Surf running from S.E. last night

has [illegible] since [illegible] Dewing, went out to get floating mines and

Large Canoe 300$000

nets 12 x 1 wide same depth

new net $1,500 Arrastao

220 – 230 arms ~~length~~

Ponta da Praia

Z-1, 300 odd fishermen

Santos 9 Colonias.

Govent price fixed each day.

No definite statistics kept !!

Miserable rainy day all down good pretty well dampened

Came in for but one net-haul

And got a lot of Euchirograpsus? narrow body* + One Palaemon under fig trees. 7 from fisher mans ~~nets~~ nets. these seem to climb way up in trees, caught in hand or knocked in can. water 1-2 feet deep around roots

Large crab like at Rio, red + yellow said [illegible] water line + readily dropped out of sight. little ones climbed as we went after them.

All todays collecting in mangroves below auto ferry in Rio opposite Z-1 colony.

Except Fish, Callinectes + Portunids.

TEMPERATURE RECORD.

Instrument used, Blue ones + coarse sandy brown ones

Current number of observation. Came out in Seth fishermans net. at end of Bonde

Date, Sept. 12

Locality, Ponta da Rio

Bearings, opposite below ferry

Time of day, 12.20 ; of tide, high but just turning out.

State of sky, overcast

Temperature of air, 69°F

" surface of water, 72°F

" at depth of fathoms.

" of bottom.

Depth, in fathoms, 1 foot

Nature of bottom, dead shells in sand

Direction of surface current,

Force of surface current, In swamp where air does not stir

Direction of bottom current. temp 73°F at 12.05

Force of bottom current, water 71½°F

Name of vessel,

To what service attached, #13a seine haul at

Name and rank of commanding officer. the Barra Santos, Brazil

Sept. 12, 1925

Name and position of observer.

Sea was too rough for work most fishermen made no haul ~~little~~ chance to examine trash of just one net not more than one or two others had hauled before we got there.

560 lb. fish in net few days ago Mero

✓

#14 Sept 13, 1925. REMARKS.

Collected on muddy sandy beaches between canals 4 + 5 Santos.
Also on mud flats about #5.
Also have got two little Uroszebias color of my tripod only much lighter. On mud flats #5 under rock found an eel. and number of Xanthids + grapsoids + etc.

got a few ascidians attached to side of rock among worm tubes in shallow tide pool.

Saw a brownish affair in small pool under rock but failed to get it was darker than zebras.

Boys got a few Ciris (Portunus) and number of hermits.

From Pearslove: Santos fishermen poorly organized, prices of fish high. Shrimps run from 4-10 $000 per kilo & up as high as 20 in times of scarcity. Rio prices run from 2-3-7 Lts latter being the high figure. Fishermen are mostly poor + have only canoes, motor boats are 30-40 M.R. per hr.

Sept. 11, 1925

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms.

" of bottom.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current.

Force of bottom current,

Name of vessel,

To what service attached.

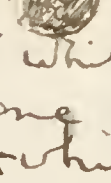
Name and rank of commanding officer.

Name and position of observer,

Sept. 19/1925

REMARKS.

#15 South of Villa Bella
São Sebastião

Collected along beach to south Villa Bella, sea-weed washed for amphipods. One pc. of gulf weed attached had number of Epiphytes intervascular forms + several shrimps. 2 of about same size were blackish maple clove brown with white marks in middle of back, rost + frontal + lateral margins whitish, dirty () next to largest one red brown with white marks in middle of back; largest one rost of brown umber, x rostra brown * white marks in middle of back. Rostrum rost of fading into sage greenish distally, rest between dark red + white frosted in color. Had without white points. ////// 5 tiny shrimps 2 with spines on carap. (1 = blackish bottle green with last 3 seg. of abdomen + tail fan dirty transparent hair brown. other = speckled sandy rost of drab grey + clove brown spots mixed or color they would produce) // two with ⟶ rost. = olive x was yellow, // one with slenderest rost. all over transparent with  double stripe of olive yellow, mixed with little ochraceous on thorax // latter + tail fan ochraceous rafous with transparent, clear spot on base of telson as indicated. ///// little hermit with sage green + olive marking spots, a narrow bands with wide bands of dirty whitish tinged with same color, but just degree lighter than dark spots.

3 small spider crabs darker muddy green algal color like limpy algae. A ~~Algal~~ Pheus.

Hazel Xanthus
whole helipedes
darker fingers
legs cinnamon

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality, berth blue with enough brick red spots to give it little distance helio strata purple & China blue color

Bearings,

Time of day, all noon / all day ; of tide. Collect with morning low tide at 7.10 tide ordinary coming in by 4.30

State of sky, Cloudy / threatening rain

Temperature of air,

" surface of water,

" at depth of fathoms.

" of bottom,

Depth, in fathoms, Depth at 6.30

Nature of bottom, water at surf. 71½ F

Direction of surface current, air 69

Force of surface current, air at 7.30 71° F

Direction of bottom current, water sample saved

Force of bottom current.

Name of vessel.

To what service attached.

Name and rank of commanding officer.

Name and position of observer.

Line 20 m
Mouth of Sant.

#15a At night used tunnel net and got many quantity of life of all kinds: chiefly large fish large amphipods + some ostracods. One would think the amphipods were luminous. net dragged back + forth few times 2 - 2½ feet water / 10 p.m

#6 xx net. Bur. Fish.

REMARKS.

#16 Sept. 20 1925 collected on stony beach, point just beyond where we were yesterday south of. Got number of Crangons and one Upogebia

Pontonid chitin pale salmon buff legs palest of pale olive buff, ovaries + egg mass showing through bright cadmium orange to orange not all solid one color alimentary tract in body sort of green-olive brown-black

Synalpheid pale buff pink with trace of vinaceous cinnamon mixed in edges of distal half of palm + all margins of fingers with fine line of bottle green, alimentary tract as in preceeding.

Upogebia, now in dish, mottled pea greenish underlaid with tinge of gallstone yellow last seg + telson without yellow, uropods olive, chelipeds pale ochraceous buff which was color when caught. under stone in crevice in gravel + sandy, some slight mud, but mostly coarse gravel. carapace also with a yellow, chiefly with tinge of green, then complete mottling yellow in front ~~eggs~~ legs all white light

Crangon #A. Sort of bluish bottle & sage green hands mottled with pale blue, back with finer mottlings + blacker. legs sort of salmon buff out. third of abdomen somites white, not def. marked off, irregular line * white same time of tail fan, the ~~[illegible]~~ legs of pale sage rosaceous, 2nd + 4th specimen with black spot near hinder margin, flagella sort of cinnamon brown, which also seem to suggest tinge of red at times. in frontal orbital hoods white half in black cornea white area narrow in first few somites very wide behind, half of last somite white edge of tail paletawny ochraceous to ochraceous rufous.

Crangon #B. Much like preceding but general color very dark black green like mottle green, main through no blue shown in green (black bottle green) olive there are tinges of heliotrope purple in index specimen which are mostly reddish but with noticeable, like the black part of indigo blue narrow margins. tail fan about all blue, black little white at margins, and 4 or 5 of abd. somites white, making rather definite + conspicuous white as compared to black green which is faintly speckled with dirty yellowish white; black spot in 2 + 4th specimen as in preceding. hairs of tail fan dirty and pale centi quite white around black cornea with orbital hood tinge of lemon yellow [illegible] rest dirty white (grey) tail fan beautifully mottled of blue

Chelipeds almost uniform dark sage + bottle green a greyer green as if were than body

TEMPERATURE RECORD

Crangon #C abdomen carapace + frontal appendages oil green tail fan + flagella lighter hands darker, = bottle green more, in fact color from hinder end gets darker forward to hands. Tip of fingers of hand white distal half of lower margin + tips of fingers of small hand tawny Hands not speckled but body color is, is made up of bright apple green, with sort of muddy finer range? mottling gives? green effect. legs salmon. orbital hoods whitish

Crangon #D Color very much like B. is a dark bluish green crangon but without white very little white speckled; any spots at base of tail fan, not black spots laterally, only orbital hoods whitish, body mottled like preceeding but effect darker like "B". little blue, no white red on distal half of tail fans practically none on base.

Petrolisthes distal joints at least of 2nd maxillipeds brighter ultramarine blue, hairs of same range

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Title of chart,

State of sky,

Temperature of air,

surface of water,

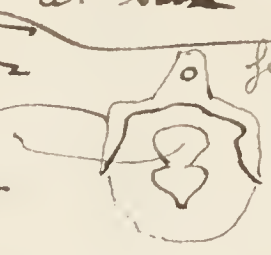
at depth of fathoms,

of bottom,

inner front face of carpus = pale coral red + at base of front edge of palm = china blue rest of palm = rest of cinnamon? fingers as on tch

back of crab rest of the black part of olive green speckled with (finely) apple green; tips of movable fingers with faint tinge of orange (and red at base

#16 Epialtus tuberculatus



fainter than rings on rest.

brown of carpus = pistre with bluish white where white legs walnut brown a chocolate.

pinkish white = pale vinaceous buff.

propodi of last two legs white with brown band dirty white chelipeds ditto

#16a morn. Air 69°F water 71½°F

#16b water sample albino tide over Air 72½°F water 71°F

except palms distally + most of movable fingers = clove brown almost black

✓ #17 same place as 16.
2 spec's. REMARKS Sept. 21/25 #15
Crangon same as one noted and #15
eggs ferruginous carapace
1 = more olive than
dirty black ② = abdom. grey black
blackish slate
dirty blackish white
= large spl. brown
— slaty black
— white
— brownish black (blacksmith bay tinge)
paint indistinct white band
— white
① dirty green black
= 475
2 like this
— last one
— black ③ shiny indigo blue

3 smaller greenish crangons
2 larger speckled generally ferruginous in appearance

2 green dorsal spinal theme like Sabinian
Dorsal little green legs pinkish body
largely brown pitch. legs & abdomen
giving it an almost dark brown
appearance after time in dirty Lobster Bay.
1 with all green dorsal
1 Upogebia shed both claws.
tail fans lard abd. reg. other color. abdo.
transparent but above broken colored due to eggs.

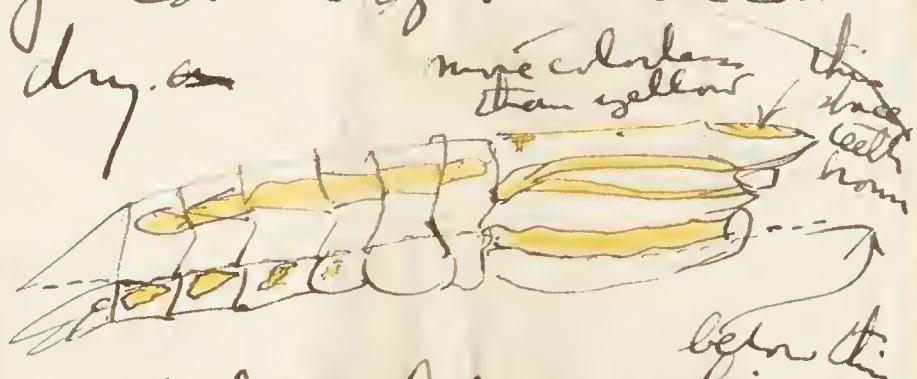
#16 continued Hyrdamen a Dibranchiata
legs olive & olive green, dark
with white stripe down inner & outer
sides. Tip of claw black, but just tips
of spot of reddish end. range. flagella red
thorn, ~~back pectoral~~ dragons blood red. distal
antennula peduncle, rufous. distal mm. of
last joint = azure blue?
Blinds. dark red and spiders brown ground
color with spines? spots of yellow or yellow
flagella & peduncles rufous.

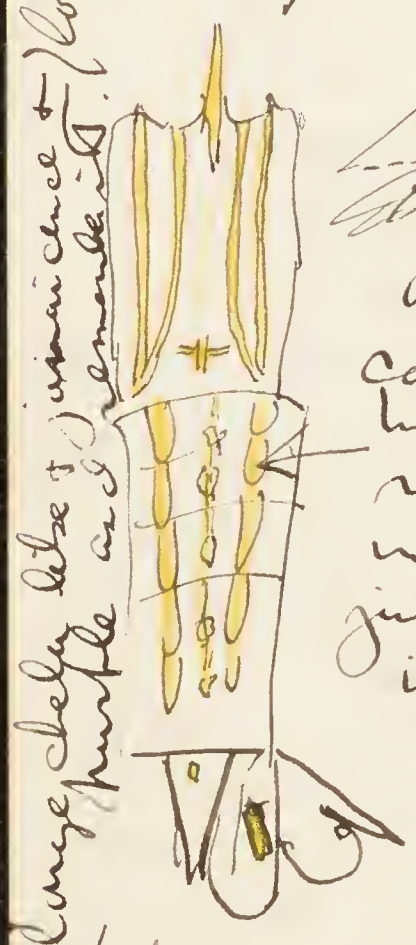
✓ #17 a low net haul
Sept. 21/25 net #6 xx
TEMPERATURE RECORD.
on hub of hotel from
Instrument used, 7 = 7.30 p.m.
Current number of observation,
#17 b. with bobbinet
Date, dip net dragged
Locality, along at bottom
Bearings, 7.00 to 7.30 p.m.
Time of day, , of tide.
#17c 9.45 p.m.
State of sky, still north inland
Temperature of air, like preceed statement
" surface of water, but tide quite
at depth of fathoms. low as along low
" of bottom. point.
Depth, in fathoms,
Nature of bottom,
Direction of surface current, must have been ebb
Force of surface current, on other hand
Direction of bottom current.
Force of bottom current.
#18 b. a second haul
Name of vessel, was made at this time
To what service attached, & material dried to
Name and rank of commanding officer. see if Newton Barry could
Name and position of observer. find luminous organism
in it

#18 Sept. 22, 1925.

REMARKS.

Collected in stream for fresh water shrimps got several specimens one of which one with yellow marks. climbed out of 8 oz bottle travelled 1½ meters ½ across bottle one ½ across wood floor & through hole in wooden partition & ½ over dry clay tile under door & across granite flag walk in hot ~~sun~~ sun & was found on ground dead & pretty dry.





only lower lateral stripe on carapace brighter yellow & lower submedian in abdomen very faintly yellow speckled with dark color. below with just a fleck of yellow at base inner blade of fan with oblique yellow stripe outer with a tint one next spine / hor last 4 + 5 abd. spines with brighter yellow

dark color = on carapace blades of mouth tinged with claret brown
lighter below dotted line = hazel transparent
yellow = lemon yellow
tail fan = dark of dragons blood red darker basally transparency
x = violet
xx = maroon purple.
spine clear

legs. dragons blood red
rest of blade = wine purple
flagella colorless

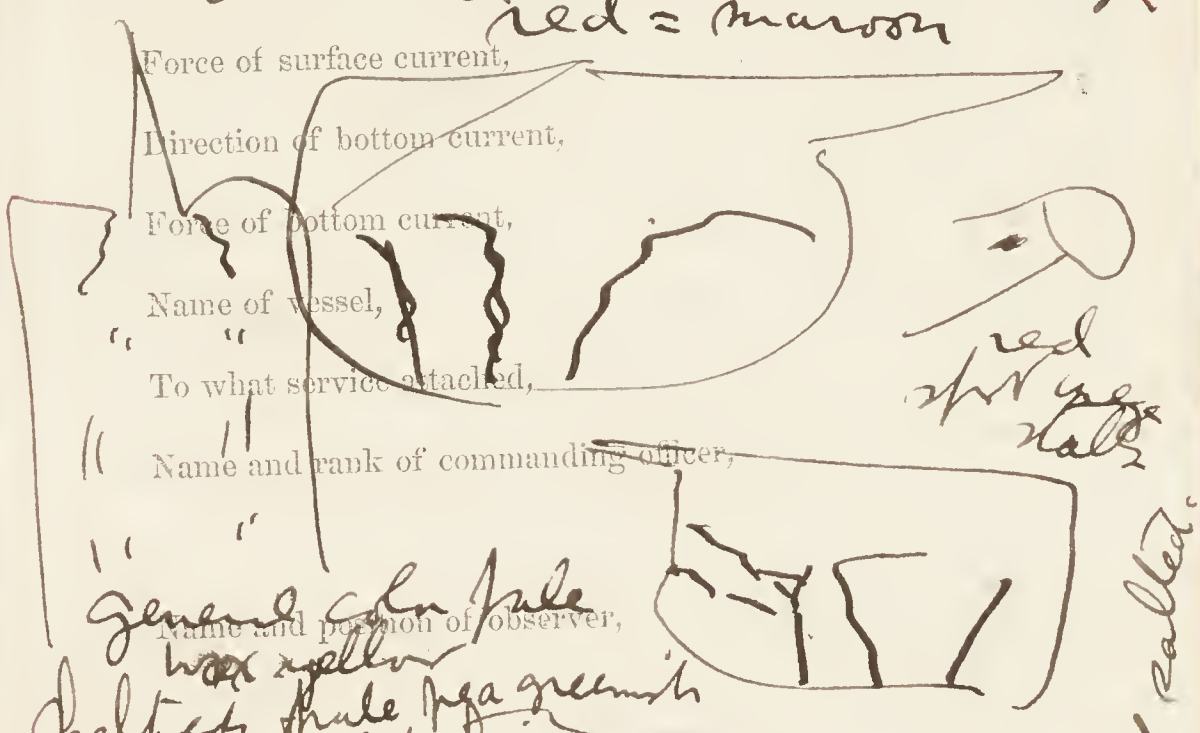
one of three fair sized fan [illegible]

Jamaica cove Zema sp. opaque
Trans lucent dark green
Pea green with a black (marine blue green) green line marking and margin of 1st, with margins of 2nd & hinder margin of 3rd abd. somite, then somites behind edges of tail fan & telson margined with
Carapace with tracings of the blue black green
Tips of fingers + articulating marking of joints range of chaetae as are hairs. Ct. rostral spines spines of chelipeds black with brown under giving them darker appearance than ~~[illegible]~~ rest of ground color

Instrument used,
Current number of observation,
Date,
Locality,
Bearings,
Time of day, of tide, range of chaetae
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom,
Depth in fathoms,
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
" "
To what service attached,
" "
Name and rank of commanding officer,
" "
Name and position of observer,

TEMPERATURE RECORD.

Acanthura vertically red stripe on carapace 3 irregular bands of which turns forward at right angles to frontal margin
red = maroon



General color pale
wax yellow
chelipeds pale pea greenish becoming rose of china
bluish distally. articulations rose of orange orchaceous
as in distal end of palm finger base of fingers, body [illegible] red

/ acanthura continued

REMARKS

list similar red spot.

3 stippled spots 2 outer red middle one of indigo blue

inner margin of antennular peduncle blue, continued on scale as line of dots

Shrimp × prox half of finger blue articulation of movable finger orange, stomach showing through, otherwise pale olive yellow. In darker brown eye stalk with thin above rings, rostrum, tips finely speckled with black.

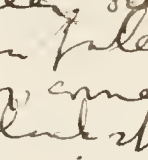
Alga large ~~one~~ dead ~~2~~ a

Black green, (olive brn + min blue + little green ?) with light stripe down middle of back.

Small live one, transparent with small dark green speckles giving it a dark appearance ~~the~~ median dorsal stripe spreading out on each write + little irreg. cuneiform, opaque yellowish white little black speckled stripe little white then olive buff tail fan a spread tips with hinge kind yellowish tips 2/3 black, speckled eggs showing through + entirely dark olive of abd. color N

dead large specs. rides with more a suggestion of light colored stripe like in back, but more a sort of mottling.

✓ Tiny shrimps, almost clear transparent pinch blue speckled scatteringly except on letson + tail fan which is ~~[illegible]~~ margined with pale canary yellow only color blue spots little larger in groups of four, median line of hinder margin of each abdom ring, never crowded blue stomach and ant. half of intestine Bay in brownish under thin antennular ~~flagellum~~ ~~bearing~~ but much paler, the transverse antennal flagellum even paler + distally without color, corners black center, blue spot at middle, outer clear margin with suggestion of brown



carpus + surface of wrist protrudes of legs only from at depth these appendages noticeable just little dark colored don't notice any of these with eyes

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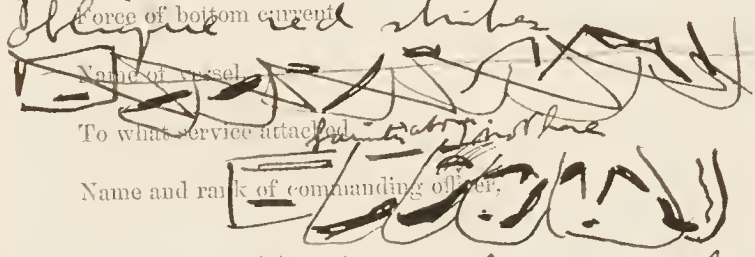
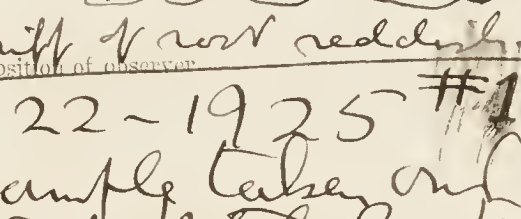
Sample of acanthura of this day with ~~pale~~ sea green eggs more thick + heavy speckled with red, gonads dark, fingers are ~~pleated~~ abd. specimen with oblique red stripes





Mid rib of rost reddish.

Sept. 22 - 1925 #18

Water sample taken out in front of Hotel. low tide beginning of flood. Water 77½° F. Air. 76° F.

TEMPERATURE RECORD

Instrument used,

Current number of observation,

Date,

Longitude,

Bearings,

Time of day, Tide,

State of sky,

Temperature of air,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

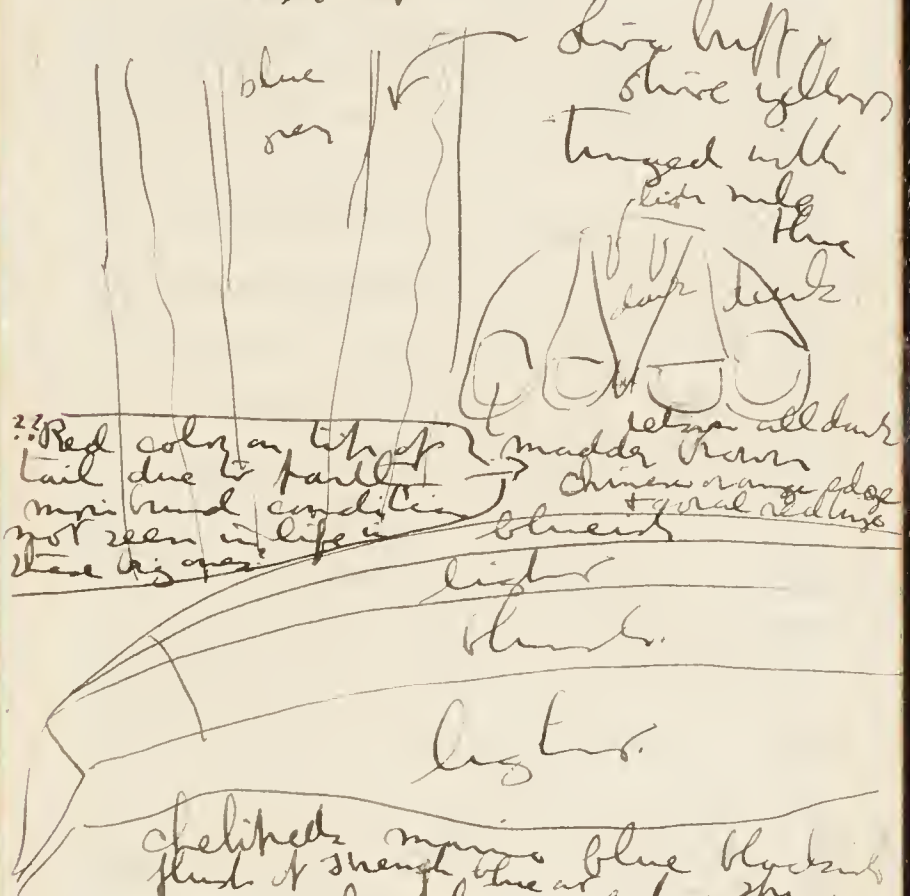
Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

#14 Sep 23 fished same stream again got 2 large salmon are quite as greenish the marine blue & French green broad stripes



REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, of tide,

State of sky,

Temperature of air, surface of water,

at depth of fathoms,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Keep a sample of large Atya's very marked in many with brownish red & white grains & in Atyas which were quite dark green like Padina under rocks assumed a general tawny olive color white stripe on back became wood brown (right) middle & cream buff at sides, stripe good 3 mm wide in large, free irregular black (inside more & less) either side of median stripe, rest of animal the tawny olive with mottling of black but not so much black as tawny, brown in rides mottling = more reticulation of tawny & dark color. spines of legs dark brown, bumbers legs thin sleeves with fawn & mucous on between legs.

little shrimps of 2 kinds?

One lot quite brown with grey black markings very little blue & green appearing + dragons blood red stomach & alimentary tract = A

One lot quite greenish with dark olive blacks little green stomach & green-black. the markings on back of abd. ==== =B (red miscellaneous.

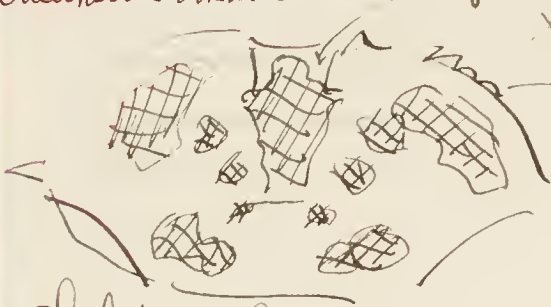
#20 Sept. 24 - 1925 #20

REMARKS.

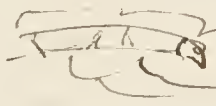
Portuguese from beach
General color root of zayd
green x hair brown. milk

Weeds from rock in front of hotel

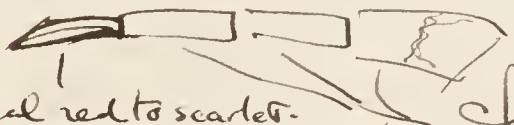
Callinectes ornatus — porcelain white
wax yellow
legs white behind white tips, toes + front margin
blood red.



Chelipeds largely same as general color of carapace, hair brown x greenish large spines nearly all porcelain white their hinder margin + and margin of carpus between these spines dark brown, inner face of hand + carpal articulation dirty blue fixed finger all white, movable one white



root of cinnamon with white tips.



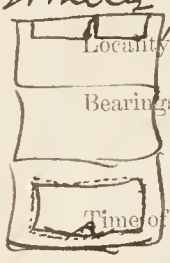
ambulatories
coral red to scarlet.
China blue
stippled stronger distally
back on merus to carpus line

paddle large like chelipeds margin of joints by articulations. calmost proximal half of paddle + adjacent joints white distal half root of raw sienna x gall stone yellow; transparent in case of white + yellow of paddle. Underneath white.

Sept. 24 - 25 Fisherman brought me 2 well developed ottersi ♂ + ♀ of same size + a Jamaica lobster ♂ (=20#) Setae of weed of a general Vandyke brown color the ones over laid with Bistre or olive, the other speckled underneath with madder brown. These darker colors were general + mottled under all by a root of day x cream buff color which showed through in large lines on carapace main of abdomen a little streaky especially on sides and on first + 3d abdo. somites extending down on sides above to top line of specimen. The living specimen had a blue black (dark) green chelipeds, the other blacks brown and black root + mottled Chela, Vandyke brown legs of both more less transparent of finger suggestion of marine blue showing in bands of second speckled prouts brown.

TEMPERATURE RECORD.

Instrument used,
Number of observation,
Date,
Locality,
Bearings,
Time of day,
State of sky,
Temperature of air,
Surface of water,



at depth of fathoms,
Nature of bottom,
Depth in fathoms,
Color of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,

♀? more russet in color, marked like males of bottom, almost white with far darker mottling of brown on outer face large chela mottled with large patches of marine blue (light) on inner + outer margins + fingers in a faint pea (bluish) green ground portions of somites 1 + 3 behind deep green much darker than any other part of body + blackish

The Jamaica lobster has long stripes of marine blue, black, bottle green, olive of Bull red, lime lapland, Cumberland light yellow, marked like red brown shrimp. Color of the other lobsters yellow on side very pea green in length of body + tail. Legs China blue

Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

Carapace marked like rare shrimp

marine blue chela purple purple light (or pale purple) with tips of fingers + proximal half of fixed one white, and white inside at distal end of carpus + proximal two thirds of merus. Legs chela marine blue banded out to white on spines and fixed finger. Margin of brown carpus and proximal distal third of merus. Telsonand

#21* Sept 25 – 1925

REMARKS.

Went back to stream to see if I could find young Jamaicense but thought I looked at the all after noon & in a.m. of 26 could make much out of it. Got however 3 fair sized? Jamaicense with blue cross bands like one also noted under #18. And one striped brown one believe had been offering around for bait not yet red-brown. bottled in vial. Thing appears be the red ones have just recently shed and the blue greenish ones with yellow stripes are about ready to shed. I would say so because in days red-brown ones get blue.

Offerin crawl junta can sight themselves almost in first things. The are 6-8 high & fast runny. and walk as well as 4 footed animals.

= Rio Taguanduba. =

*#22 Sept 26 – 1925

Went back to stream for oligochaetes. Soaderwall then then pull quite a number. Also, incidentally got seven shrimps, one cross banded jamaicense like one under #18 smaller jamaicense I have seen which I know is other species (But what are the longitudinal banded ones.) Two accanthurus, also smallest I think so far rost + red stripes on sides carapace definitely identify it.

Also an Atya with light stripe down middle.

And 3 characteristicly specialed ottersii with dark cross bands on hinder margins of first 3 abd. somites; darkest and most conspicuous band on hinder margin of 3d. with charac. clear transversely rectangular area in front of it.

Sept. 26 – 1925 #22

TEMPERATURE RECORD.

Clear ~~summer~~ day. Water temp in Rio Taguanduba where we collected. = 69.75° F

Instrument used,

Current number of observation.

Date,

Water sample #22-A.

Locality,

Bearings.

Out in front of hotel surface, 1 fathom.

Time of day, ; of tide.

Air 74° F

At 5.45 p.m. temp in front of house = 78° F

State of sky,

Water 74½° F.

Temperature of air,

" surface of water,

Just after turn of tide

" at depth of fathoms,

Tide high just beginning to ebb. 1.30 p.m.

" of bottom,

Depth in fathoms,

Nature of bottom,

H I = 8.4 on Lange prism.

Direction of surface current,

Force of surface current,

Density 1023.5 at the of meniscus

Direction of bottom current,

Force of bottom current,

Temp. 72° F

Name of vessel,

Capt. Wilhelm Theodor Meissner

To what service attached.

Name and rank of commanding officer.

Villa Bella, Ilha São Sebastião

Name and position of observer.

Litoral do Est. São Paulo

Crest of tide at or just before 22"C" ebb tide with "D" still flood.

Intermittent moon & clouds.

Ill.mo = Shr.

Townethau at 4 p.m. 22"B". 11 p.m. 22"C"; 1 a.m. 22"D" in front of hotel 2 feet water surface tow

Phosphorescence present in water

#23 + #24 both Paranagua, Brazil.
tide flat collections

REMARKS.

#23 Oct. 2, 1925
Collected ~~along~~ beyond Can bam of bonde of Paranagua
Got a few small fiddler crabs small thus they went all to pieces. The Gnangons in the bottle with them are from Oct. 3 collection. which I have given #24 Oct. 3/25
Things its hard with white to keep separate from mud of bottom 3 amphipods are with little Pinnotheres from Villa Bella which later took in my gills.
The young grapsoids in both #'s were from higher up on beach than the crabs in #23 well back in puddle in almost dry land.
The Portunids are only from #24
Things are separate except for Gnangons & Gelias from #24 which are with #23,

---

#23 Oct. 2 clear day few large clouds zenith, tide high in zenith

TEMPERATURE RECORD.

#24 Oct. 3 Overcast, raining drizzle in forenoon, cloudy but clearing in zenith at 12 o'clock tide low at about 8 o'clock coming in later.

Instrument used,
Current number of observation,
Date,
Locality,
Bearings,
Time of day, ; of tide.
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms.
" of bottom
Depth, in fathoms.
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
Name and rank of commanding officer,
Name and position of observer.

#24 tide flats off last pier to N. at Paranagua, rocks covered with dead + few living oysters on sandy mud flats.

Paranagua Brazil

#23 + 24.

Oct. 2 + 3 1925

Got one broad this afternoon as I saved the lady's picture of ship. Flattened him out with tripod head. Throw same place as morning collection but in afternoon 2.30 P.M. with high tide

Oct. 6 left at 9.15 17 days 2 families Ribeirão de Bananal.

REMARKS.

arrived 12.30

half hr 3 hrs north on mangrove mill.

all girls left 2, back to the house about one hour after leaving house at

2:30 at end of zinna

after coffee

3:15 To Praia Grande

6:15 p.m. starters back to hotel about 10.30 with 3 stops on way, one at mangrove mill for shrimps + other prawns + last for mollusks to eat. Praia da Enseada

Oct. 6 - 1925.

"25." Air temp 67 3/4°F

Got a Lepidopa and 1 tiny Hippa on beach in front of German house facing Light house. Before that walk got 3 mollusks at the end.

At house got some shells

At Praia Grande got lot of Hippas. Few quite large but not as large as natives claim they come.

And a few amphipods. Praia Grande is across two points of land behind house.

Sea was very rough + high due to high winds. Might before really should have made trip, but in town children realize force of surf on outside of island.

26 Oct. 6. Children at mill got me 2 crabs + several shrimps from stream back of mill. One shrimp was quite green in life but lost this color like the crabs of Pronto from same of lower (number) all over claws too.

TEMPERATURE RECORD.

Instrument used.
Current number of observation.
Date.
Locality.
Bearings.
Time of day, ; of tide.
State of sky,
Temperature of air.
surface of water.
at depth of fathoms.
of bottom.
Depth, in fathoms.
Nature of bottom.
Direction of surface current.
Force of surface current.
Direction of bottom current.
Force of bottom current.
Name of vessel.
To what service attached.
Name and rank of commanding officer.
Name and position of observer.

The largest of the Sicyodadyn was generally (only one alive near a.m.) a rare sienna darker on carapace due to spottings + mottlings chocolate + mars brown, some on upper margin of all appendages, walking legs chelipeds, on upper margin only; pink + narrowly, but in some of legs extending back on upper or hinder face of joints except for distal end of carpus carpus + ischium. Lining almost all dactyls, however, nearly uniform raw umber, little lighter on hind margin, eye stalks spotted with red brown, mottlings have more of brown a maroon color than what I have said above especially on eye stalks

Other shrimps show coloring of olfersii on casual examination of dead specimens next day.

Sent Francisco d'Sul Santa Catharina

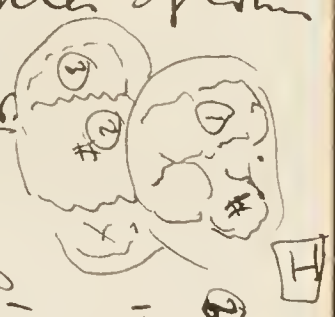
#27 Ponta da Cruz, São Francisco

REMARKS.

Oct

Point of land north side of harb R.R. Sta.

Large rocks for most part covered below high water line with oysters



Got 2 holothurians one star fish.

Oysters + oyster crab 2 Gobies + pc. of rock.

#27
Density = 10 22.2
Temp. 72.5.

1 = shade = dirty orange pink
2 = white calcareous
w = " oyster = light 1+2 above

① oyster brand mark × rudiger hand
1+2 # bright × dirty yellow dark
rubber red mark
~~[illegible]~~ dirty orange

Oysters very abundant on rocks. very salty to taste.

∴ ca 90

✓ 80 - 100 oysters give small mug of meats + juice. Cup = 6 high × 6½ cm wide over all, juice drained off, left meats 2½ cm from bottom edge of cup. meats small + very salty to taste. oysters hard to open very irregular.

in about 90 oysters found found 4 prs. and 3 others of which one or two were in shucked oysters and there is one with the amplexus broke. ~~about~~ 12 crabs in about 90 oysters ruined many hands getting them opened

The interesting thing is that always found male with each female no exceptions! among ~~all that~~ shucked oysters found a male

Hind pr. of legs in ♀'s at least carried up over back like chromids are very much less outside of oyster do not seem to be able to balance. always seeking to hang on to the [illegible] with hind most legs.

TEMPERATURE RECORD.

Instrument used,
Current number of observation,
Date,
Locality,
Bearings,
Time of day, of tide,
State of sky,
Temperature of air,
surface of water,
Depth of bottom, fathoms,
Depth in fathoms,
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

Oct 8, 1925 #s 28, 29, 30

REMARKS.

left hotel at 8 AM
arrive at mill
#28 9.30 A.M. beach
at beach at
nearly low tide
low at 11.

Air 72½ 3.50 p.m.
water 71 high tide

left at 2.45 arrive
hotel at 6

Praia da Enseada
28 water sample; Arthur
#28 bottom from rocks at begin
of Praia
facing lighthouse.
São Francisco, Sta Catharina, Brazil.

#28 Density = 1025
to top meniscus. Temp. 73°F

#29 at mill again
Collected myself one crab
got another crab
Never rare
in city to Praia

shrimps + prawns
and the
[illegible] one
[illegible] lung [illegible]
[illegible]

São Francisco, Sta. Catharina, Brazil.
Some eggs brought to me by
Mr Concorni

Praia Utatuba
water from Ribeirão Bananal

TEMPERATURE RECORD.

#30 Oct. 8, 1925

Instrument used: dragging net
Current number of observation:
Date:
Locality: from ditches near Praia
facing lighthouse
São Francisco S. Catharina
Bearings:
Time of day: of tide:
State of sky:
Temperature of air:
" surface of water:
" depth of:
" of bottom:
Depth in fathoms:
Nature of bottom:
Direction of surface current:
Force of surface current:
Direction of bottom current:
Force of bottom current:
Name of vessel:
To what attached:
Name and rank of commanding officer:
Name and position of observer:

freshwater fish and mollusks
and few insects

#31 = Oct. 10

Oct 10 (11) 61.9°F air.
7.50 a.m. in my hotel
window sill. Sky overcast
On spring = 61°F
in eddy of stream 61 3/4°F
On window sill in shade
= 64 3/4°F
brighter sun at 12 noon

#31 (10)
Oct 10 Collected along
banks of Rio Negro, above R.R.
Bridge where boat of Hotel
Zorning is tied. Got insects
only. Concorni indifferent
got a fish on hook-and-line though
he saw many.

Used small birge net. #32 (Made turner hand in shallow & in small streams in bank)

✓ Oct. 11 Sunday

REMARKS.

Collected along Estrada of Rio Negro, on Panama, Sta. Catharina side of river, entering above R.R. bridge. More insects & a turned hand; dried butter for small spring on bank where dipped. Late on way back at hotel dug into a termite nest, hard sand & clay mixed and got a few specimens for safe. Dts not the stuff he wants by it may be of use to him. Chilled up a few hr small stumps & collected simple specimens of ants preserved with similar hr species of ants in single stumps! have bottled lots for each stuff all together (hr stumps separate)

In afternoon collected in holes in bank round pen which dogs had been

✓ dug. Zoning letter we the are flooded during high water in the rainy season. Short low fish gave one specimen of these may be three; one large specimen of mangrove to catch merely. 2 nests & several tadpoles.

Time of day, 12 ; of tide.

State of sky,

Temperature of air,

" surface of water

at depth of fathoms,

" bottom

Sounding in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

#33

Oct. 12 Monday

Put out fish-trap last night; hauled it about 8 o'clock this a.m. Water Temp. 66° along shore Rio Negro, Panama side

---

Female that carried young has with antennal flagella & one, 1st. dorsal dactyls pale turquoise blue beneath, first pair above too, carapace dark, black with green, force of bottom current half of fingers dark towards the legs, most are olive green above, but black abdomen shading out to roof of sea green in second image, blue in third flagella blue. Name and rank of commanding officer. Un tints below dark & ochraceous color which in usual joints of legs & base of telson blue in dactyls & black in protopodite

Last two joints of 3d maxp. blue.

Second specimen with only one claw ischial & basal joints, white rest of legs long & glaucous blue beneath, abdomen all blue beneath, carapace brown, marg.

Oct. 12 #33 cont'd

REMARKS.

Above carap. + abd. much alike
Bodie & myrtle green, mars brown
sides + on root.
Picks them up by one leg + they play
dead all spread out.

---

larger spec. instead of blue has
plum purple stead of blue above +
royal on under parts + sterna
and sternum practically white with
faint traces of purple
articulating membranes coral red
Carapace blacks of bistre with
yaw under on high parts. hands
Indian purple; max parts of sternum
root of buff color. fingers distally
prune purple. Zornig says he has
seen quite red ones.

Oct. 12 #34 collected
with dip net through Zornig
got his few fish + small lady fish
Zornig photographed under shrimp
Visited museum of
Zornig wonderful under
Converter fine little place + some rarities. Brazil
is so little known, that you never can tell what
will turn up. Birds, mammals + stone implements
000 got about a dozen different
sizes. Zornig wants to do some
big time collection of our guests. pictures of many
with their keepers. Stuffed & mounted specimens of Musician
now living in Rio Negro.

Oct. 13 #35 {Color still recognizeable Feb. 27, 1940}

TEMPERATURE RECORD.

Fish from Carapace or
abdomen of Geglea dark
of grass green with a
suggestion of Pansy green?
membrane bet. abd similar
maroon or clarer brown.
Seya marine or indigo blue
Carapace of chelipeds grass green
little on distal portion of meros
Time of day, inside of tide are dirty cream
buff. State of membranes of joints of legs more
Temperature of air palms grass green
surface of water, fingers " left side like legs; of right side
at depth of fathoms, tending distally near tips into
of bottom, royal purple; Under parts
Depth, in fathoms, dirty cream buff. max. faintly with
blue + green + bar 2 or 1 abd similar
Nature of bottom, faintly with green + purple like prong
Direction of surface current, dagger carapace eggs with grass degree
Force of surface current, Spines whitish or cream tipped.
Direction of bottom current, Rio Negro at big one
Force of bottom current, of Freezer

Name of vessel,
To what service attached, 7-8 p.m. Cast net.
Name and rank of commanding officer, maybe a dozen crabs.
#36 Oct. 14/1925
Name and position of observer, at rapids above R.R.
bridge at Rio Negro, Manaus.
#36 Oct. 14/25

See other notes on Geglea on next page.

#37.

N.Y.N.M. 15

REMARKS.

Oct. 14

Air 58° F

Rio Negro by fish post.
near bank.
in water 64° F.
1 foot deep

307 Tabel only too
Feb. 27th 1940

3 4 Aeglea in fish pot.
1 smaller, one brighter shiny
yellow green; legs flushed with
head and purple ~~dactyls~~ fingers too.
legs pale tenuis dactyls quite purple
under parts purple but light blue tones.
underlying purple
~~2 blue spots above~~ equally blue
Carapace both dark yellow
green
fingers + outer half of palm
of one and dactyls brighter
French blue spotted
sea green
Telson + several under surface
abd. similar light outer
parts of hands + dactyls
French blue one dark brown
+ legs + letter dark orange
blue below not quite white
Must live in crevices, the prey
then picked up in hand of shaped
eagle effect when you try to lift them
out of little pool and just. Resist
quite strongly.

#36 Aeglea dark yellow green on back
+ abd. legs dotted + palms bright green
green abdomen dactyls buff - cream buff.
fingers tipped + edged with the buff. brown
at margins of joints and articulations
dragons blood red. Underparts + letter
+ last 3 abd. similar (these bend under all
plumes buff. maxillipeds too.

These were cast nets. Oct. 14 night.

Oct. 15 Got 1/2 dozen A.

#37a

TEMPERATURE RECORD.

one had young
one had peculiar swelling
under abdo. which is not
[illegible] feeding and stuff attached
to water. Go higher on stream until
on cart this a.m.

#38

Instrument used,
Current number of observation,
Date,
Locality,
Bearings,
Time of day, of tide,
State of sky,
Temperature of air,
Temperature of surface water,
at depth of fathoms,
Character of bottom,
Depth, in fathoms,
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

Oct. 16 Boy went down & got
trap brought me 3 A.
These yesterday all three were uniform
olive with tinge of olive green, very dark
olive red on just little muddy or greyish in
nature due to distinctness

64 3/4
72

Fingers of hands
margined with orange
shape dark tan light
olive not of flushing
marable fingers one short
or extremities. Dactyls distal half
salmon red or orange chrome light. flush
at beginning green basal half; larger
specimen brighter central portion of stomach
tinge of cerulean blue? letter + abdo.
flushed under and, under side of propods
carpus and outer side of hands +
[illegible] bottom green. Under
parts overall dark white. Antennae
have dark antennae little brown grey
who just stay on, not of importance.
Can right themselves very readily
leaving [illegible] little mes prey
when [illegible] they not so big here

#39 Oct. 17 Cleaned sheet malm
of Aeglea. 9.30 a.m. Air. 72
water 66
Saturday. Saturday nothing for fish
not.

2 doz Aeglea from Stream
Called on Gifford in afternoon.

#40 REMARKS.

Oct. 18 Sunday
By Hacienda Maruncly
with Werner hitch & rest.
got couple dozen aeglea &
number of insect larvae
Air. 68 water 70 ?

#41 (Iaf°)
Oct. 19 Monday with
Midshipman & rapids
beyond. Drifted along
33 miles in rain return.
got 9 aeglea.
Air 67° water 69°F.

Get Weather Bureau data

#42 Oct. 20 Tuesday
got about 2 doz more
Aeglea a few as
large as any I've seen
but still smaller than the
folks here claim they grow.
2♀ 3♂ out in 3 dipnets but
quite larger. 1 male mean large size
not as much as 1/4 in shorter in carap.
1 ♂ + 1♀ small & show size diff if any.

Oct. 20 Black Bass 3.000
White 5.000
& chub 1.800
TEMPERATURE RECORD. Fish pot 2.000
Dentist 10.000
Instrument used. Water to dentist & Pension 9.000
Current number of observation.

#43
Wednesday 21 2 Aeglea
Date. Rio Negro last fish pot empty
Locality. Rio Negro.
Bearings.

#44
Thursday 22 Last day
Time of day, ; of tide. in Rio Negro. got one
State of sky, or two less claws & 1 large
Temperature of air, surface of water, Aeglea. Biggest I've
" at depth of fathoms, yet seen.
" of bottom,
Depth, in fathoms,
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer.

pedes & legs white
lateral stripes only
right half of
abdomen & of
some level
in carapace

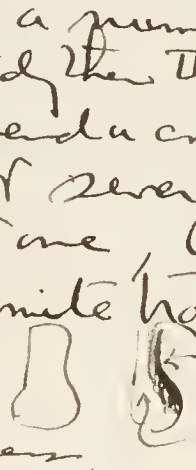
belongs to #43 Tiny pontonid in
honor of Gelria. Long striped with
crimson & pale red (mostly crimson
spots 4 stripes but parallel on back
at middle of carapace, at black green
spot Name and position of observer, leaving and front of
carapace transp & colorless except for jet black
eyes which look like Crangon, lateral stripes
run over carapace & abdomen up & into lobes of
antennules & antennules, all stripes with glass =
& branching crimson lines, which are arranged in long
letters + rings mostly red with white except on antennules
Kelpies.

✓ #45 Ponta da Cruz

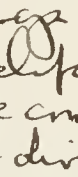
REMARKS. São Francisco

Sta Catharina

Oct. 28 Wednesday

Low tide at about 7 a.m. went back to where I got Gelia before to get some pictures & found such a number & equally chance to study them that I have decided to spend a couple of days here. Got several Crangons smallest one, Cont. half each abd. smooth transverse chitin post half = 

legs colorless

chelipeds, maybe ochraceous upper be carmine, mucro brown with a band of olive above & before groove, light below under groove almost white as is  lower half of fingers

in larger more orange specimen, brown bands are wider & when abd. is extended hardly see colorless areas, telson distal fifth brown sidemarginal

Carapace of each with brown saddle above on post 1/4 lighter nearly clear on sides & before saddle stomach, a dark greenish brown (? brown umber & olive) depressed areas a large brown cont of pale olive suff on cont of olive yellow, legs at distal ends of joints & on upper margin with a narrow line of vermillion. Larger specimen orange brown on dorsum of carapace almost the black, at least the dark of Vandyke brown greater part of stomach colorless, only post 1/4 or 1/5 brown; carapace above same dark brown; chelipeds like preceding carpus like hand, merus like legs.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Chipped off lot of rock & got quite a number of Gelias, in first rock photed triangular about a foot on a side & tapering min in the small part of 6 inch thick got 4 pairs (8 specimens)

Then chipped off a more honeycombed rock, recovered a nice brown female seen to shove in pleopods through exact for small holes for water outside of plugs in broods found, males, or at least eggless men.

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

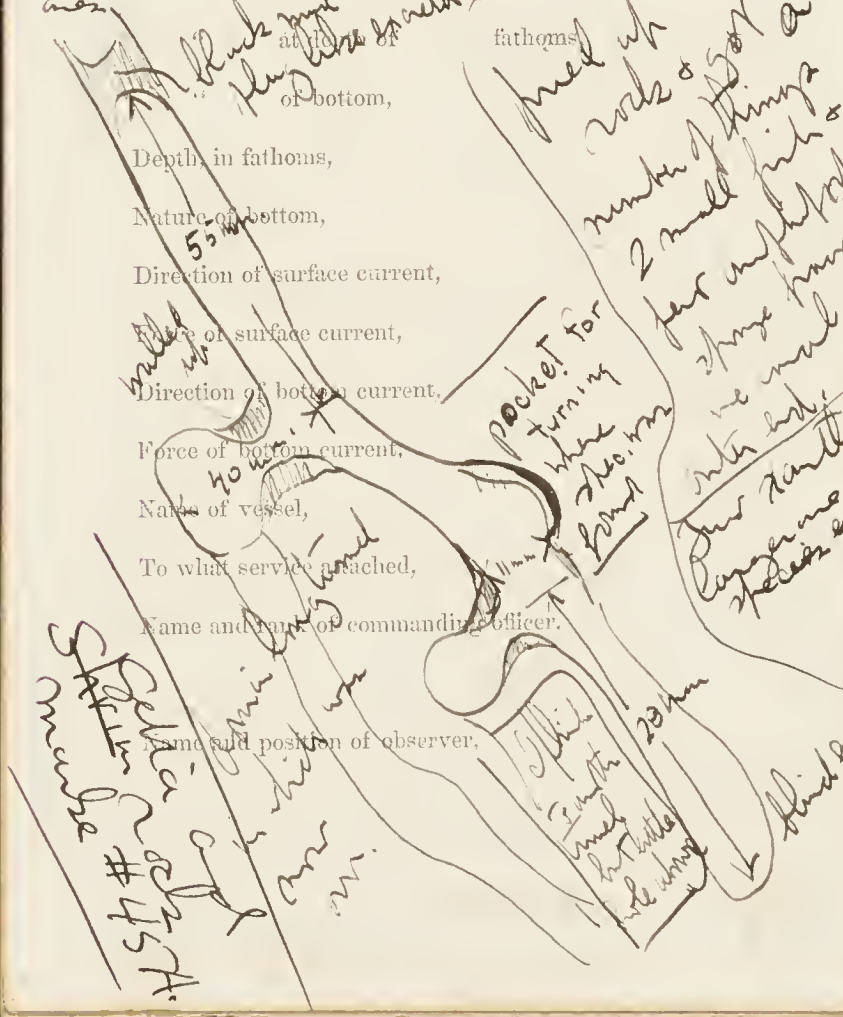
Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,



TEMPERATURE RECORD.

#46 (29th) Oct. REMARKS. Ponta da Cruz Sta Catharina

Combined Inlet 4/5

Temp air at 12 mn 71 1/3
Water incoming tide 71.

Got a lot more Gelias
Can stand very stagnant
water in which all crabs died
naturally in pockets in rocks when
they have found be one very foul
in course of tide.

Found 4 small red ones
crawling against mud
wall of tide. The red is quite an
intense bitty red. + the lateral white
across the epimera is the strongest
& most conspicuous

stomach of one bright apple green should say almost emerald green

There were several green * crawling of which
I have color noted one. Hands the dark
of bottle green Sea green speckled.
Finger tips + a little along cutting edge
of manus, hairs fringing telson + tips of
flagella where they attain + surface fingers
same color. Carapace black
Color tube in mouth
Abd. edge

* next page this

Ant. 3 fourths of abdr. similar +
bottle + large red green on a
porcelain white ground but not dear red
Only in case of carp + abd. unlike chelae color
is in specks + white in ground. Post margin of
telson + tail fan white tip just tipped thus touch
of blue (pains) then bottle green.

Of the tiny fiddler crabs only
carp 2 in three holes got
1 male + female Gmagna 3 spec.
also found Grithia

Of the Uproghian the abd. of
most is bright orpiment
orange on a ground all rig.
legs white, chelae with flush of
light pink or rinaceous flush.
other legs opaque white; telson
quite transparent stomach
showing particularly in rudes,
bet. slate + indigo, many have
carapace + central third of median
dorsum of abd a sort of slate gray
not so noticeable in fied gas in
white plate after some hrs.
hairs on fore part of carapace, dirty
cream buff

Got are indexed for balance.

Shrimp with bottles not =
46B Mostly transparent,
most conspicuous thing has
apple green stomach above which
carapace has coloring in area
which + on sides were faint red
or [illegible] ; abdomen with
scattering of red spots, eyes blue black
legs blue like watered milk. Chelipeds
a maybe maxillipeds, anyway the heavy
antennae link with darker red + some few
blue spots below distal margin of ante
penultimate joint red (dark
General red flecks = fatty
dark red = fatty with dark of crimson
blue spots = azure albat
or albatr.

This shrimp like all found in Burrows. Some oranges in crack or under rocks

This is last + little red found in Gelias similarly

TEMPERATURE RECORD

Instrument used,
Current number of observation,
Date,
Locality,
Bearings,
Time of day, of tide,
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom.
Depth, in fathoms,
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Nature of weather,
To which service attached,
Name and rank of commanding officer,
Name and position of observer,

REMARKS.

#47 Oct. 30

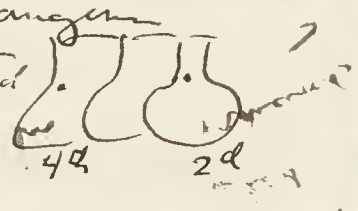
Heavy rain & collecting in rain.

got fiddlers out of sand near shear guy one little place

Fringes of large dala white, outer side of palm & carapace & many little distally flushed with orange, in some strong about lemon yellow which in color of legs; backs dark & olive & green mottled.

* note above on green crangon

Black spots as indicated on 2nd & 4th epimeri near hinder margin before articulation



#48 TEMPERATURE RECORD.

Oct. last day before this voyage for San Francisco.

Instrument used,

Current number of observation,

Date, + R. R. Dutcher

Locality,

Bearings, Fisherman's Bay W.

Time of day, not tide,

State of sky, Schmidt went with me the second time & picked up lot of stuff I had gotten before, but I saved it as I hated to throw it away.

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Thursday Nov. 5 {Quiet dear sunny day}

REMARKS:

#49. Also another collected on rocky point at end of Praia da Dora toward bridge but mostly on rocks at bridge end of Praia / 8.30 a.m.

Air. 71° F
Water sample Water. 71½° F.
tide nearly at just before slack.

3 Palaemons seen four in shallow water about rocks. over sandy water about a foot deep; just happened to see them moving and picked up crabs. Could see apparently refer sand bottom.

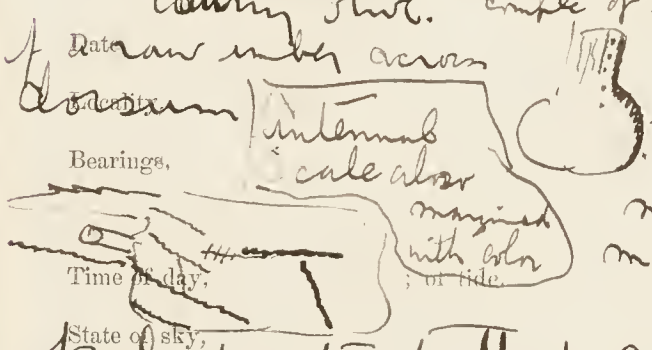
1 of Palaemons was in sea weed with amphipods, when I scratches up weeds he tacked out fished him + other two with nets.

Amphipods thick in weed. Sargassum plentiful

two isopods are in road home from Praia, other among leaves of weed above rocks.

On way back collected gnathiids on sides of (sewer?) small stream into which tide backs. got lost all signs

Palaemon painter kind of hairy TEMPERATURE RECORD. Sure. hinder margin of abd. smites, with 2nd of lobe mixed with Latony Shot. couple of faint lines of dorsum raw under across



Instrument used,
Current number of observation,
Date,
Locality,
Bearings,
Time of day,
State of sky,
Temperature of air,
" surface of water.
" at depth of fathoms.
" of bottom.
Depth in fathoms,
Nature of bottom,
Direction of surface current.
Force of surface current,
Direction of bottom current.
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

back of rostral teeth + carapace with dark lines as shown one under eye extends along antennular peduncle. tail fan also margin with color like abd smites + carapace stripes legs china blue distal margins of joints palm + fingers with quite a conspicuous band of orange or rachous articulations. Carr 3 abd. smites with orange spot base of which is where uropods articulate

Lost a nice vial of ascidians + though I went back just before dinner and looked high + low couldn't find it.

#50 Nov. 12-25.

REMARKS.

Grady with F.F.
a.m. 4 F.W. fish
water too muddy + high
for seine.

Shean = Arroyo Magnelele #2 Bonde

Volto Vuelto

Barnacle = Lapas.
from Lepas?

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings.

Time of day, , of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms.

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current.

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

✓ About Handlinder on way to Baltimore.

REMARKS.

Country is like Kansas prairies flat & undulating but very nice & green & though flat well watered; trees appear in clumps & may have been just (groves) have been or planted. Beside the common people seem more upstanding than run of Brazilian or dr. imagine it.

Fatigs. in italics of what did he say 18 years ago? Old sea capt was out has bridge on house

Day not as blazes.

Boys & many men run around all day with big linen duster of mark of duck.

Graptosidr under rocks & #56 Nov. 16, 25 continued in seaweed ~~on~~ mostly in water or where there was water. tide pools etc.

Sydgia common under rocks some very large ones among them, got only one or two good specimens

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms.

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current.

Force of surface current,

Direction of bottom current.

Force of bottom current.

Name of vessel,

To what service attached.

Name and rank of commanding officer

Name and position of observer.

Nov. 13 Friday

REMARKS

#51 5.25 – 5.50 a.m.

#51 (= #1 Instituto de Pesca)

2 small crabs one with madda brown eggs
1 isopod + several Pasiphaea

1 isopod Isopod
2 crabs 1♂ 1♀
Pasiphaea Pasiphaea
1 Xiphopeneus Xiphopeneus
1 Penaeus setiferus
Penaeus setiferus 5 species

51 } Crustaceos
52 } all combined
53 } number of Pasiphaea
54. Chimaeras had shells in stomachs saved some

Callorhynchus callorhynchus L.
Gronovius for Gm.
"Gallo - Quimera" 1754.

#51. TEMPERATURE RECORD.

Instrument used, C thermometer on ship.

Current number of observation. #1.

Date, Nov. 13 1925

Locality, E. Isla de Flores

Bearings. (Approx 6 miles) Approximately

Time of day, ; of tide,

State of sky,

Temperature of air, 19°5

" surface of water,

" at depth of 7 fathoms, 19°5

" of bottom,

Depth, in fathoms, braças 7

Nature of bottom, barro (mud.

Direction of surface current,

Force of surface current,

Direction of bottom current.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer.

Color of water green

REMARKS.

Pasiphae calcar by Corrina + Poirich (mid shell man)

Pasiphaea tail

Carina and telson had bases of appendages in spots. Little distally

Chimaera

Cr. 2.00 p.m.
H.I. (8.15)
Sample of water saved

#52 = (#2 Instituto)

TEMPERATURE RECORD.

Nov. 13, 1925

Instrument used,

Current number of observation,

Date,

Locality,

Bearings, E.N.E. Isla de Flores (prose 7 millas)

Time of day, 9 a.m. : of tide,

State of sky,

Temperature of air, 22°.0

" surface of water,

" at depth of fathoms,

" of bottom, 19°.5

Depth, in fathoms, 7 1/2 ~~varas~~ brazas

Nature of bottom, barro.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Walter Wade.

#54 # 4

REMARKS.

Hora 3.
E. Isla de Flores (about 4 mi.
8 fms. bano
Air 26° Water 20°5
Verde.

#55 Hora 5 # (=55) by #55
(55) Sta. 5.
S. of Isla Flores
about 5 miles
bano
Air. 26 Water 20°
Verde 2. P.M.

#55 Density 1006.51
Temp. 70.5 or 6

#53 = # 3,

TEMPERATURE RECORD.

Nov. 13, 1925

Instrument used,

Current number of observation,

Date,

Locality, N. E. Isla. Flores

Bearings, (Aprox. 5 millas)

Time of day, 11 ; of tide,

State of sky, cloudy

Temperature of air, 24°.

" surface of water,

" at depth of fathoms,

" of bottom, 19°.75

Depth, in fathoms, 7 1/2 brasas

Nature of bottom, bano.

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

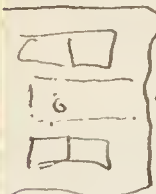
Name and rank of commanding officer.

Name and position of observer,

Water Verde

#56 Nov. 15, 1925 #56 Excursion train to Mald.

REMARKS.



Hotel failed to wake me at 4 as I asked called me at 25 of & I had at most of my pack to dress. F came by in taxi at 5 to 6. Got on wrong train first, then changed over to a very crowded one; these people hold seats right & left & it's hard to get an unoccupied one. Ex. all girls it seems & not very few good looking ones, look like [illegible]? on a picnic.

Don't know when the train starts but there seem to be two sections standing on the tracks.

Such a jabber, & I can't understand a word right or left. Car we are on sort of buffet car some folding seats opposed a dining ? at end in side board & lot of bottles [illegible] behind a little counter. We are beside two thin ones.

& the young blonds are walking up & down outside rubbering in the car. Skirts are not as short as in Brazil.

A priest with black hat accompanied by a Dominican had green ribbon in hat. Every body at least all women clapped hands when he went by & the men smiled & he nodded to crowds right & left of ramp. The [illegible] black gowns are common here as in Brazil.

In the rush of leaving hotel got cap on my head instead of hat. Glad I dressed & took my old clothes & shoes along though wouldn't have left me around otherwise. This is a "regular Sunday excursion" in every sense of the word.

There is a special catholic excursion on, [illegible] & girls have tied green ribbons around head. Was note in paper about arrangements for the day. Arrived Maldonado 11 a.m.

To auto to Town. 30¢ each, walked to Burnett's [illegible] ate lunch, dickered for a ride with taxis to Punta del Este wanted 3, 4 & 5 $ ea. higher than next one. Tried [illegible] & [illegible] but 8$ again. Finally asked police man outside of church & told us of a [illegible] at 1.00 per head & return & two hr. stop. Punta del Este looks like a good place, & we will go back for Fri. Sat. & Sunday of this week. Got a few ~~things~~ [illegible]

TEMPERATURE RECORD

#56 Punta del Este #56

Got a few amphipods off the dock [illegible] on me

Density 1014.00
Temp. 70.5 or 6.

Came back to church. Services going on [illegible] most people filed out. F. wanted drinks we went across park for upstairs Uruguayan club was dancing back in park fellow was speaching & two bands alternated. (Couldn't buy any pictures, but [illegible] Rio Negro most came in auto. Sandy dunes houses with thick thatch. (Can almost tell part of country by percentage of horse tails. Sights at Punta del Este = Maldonado light. Camera got 1 bunch & 1 dish today both in case fortunately.

Said Caramba when I told him I was not going to be in Washington. Water samples at about 3.33 tide just after turn well marked. Broke thermometers

Told Metcalf he had learned English in last three months & thought I was sure H. M. Smith had written he knew no English. Metcalf said why he doesn't know any now. Good [illegible] & when you write to ask & make him read it he [illegible]

On train [illegible] wouldn't stay in seat, crowded as [illegible]. [illegible] Train was due to start back at six hasn't started yet at 7 p.m.

got back to [illegible] + 5¢

Beer 50¢ Boy 20¢
Auto 60¢ other 39¢ &
Auto 100 would [illegible] myself.

Instrument used,
Current number of observation,
Locality,
Bearings,
Time of day,
of tide,
State of sky,
Temperature of air,
Surface
at depth of fathoms,
of bottom,
Depth, in fathoms,
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

57 Nov. 16, 1925

REMARKS.

Retd to hotel from maldonado at 11 30 left again at 12 30 for trawler. Her boss put over in a.m. but I was sleeping in room. Had hotel night before I only slept from 2 00 to 4 30 didn't wake me till 25 mins of 4 so I am thankful did have sleep night before have everything before I went to bed. It made me miss a couple of good times hauls in a.m.

Very large haul of this about 3 times what I saw on Friday last. Saved 1 doz. Cullorita rat fish

Little else but Corvina + Pescadilla.

57 [illegible] 3 9 a.m. Air 37.

Second good haul only 1/3 size of first but stud = 1 mg. made one night after 8th water sample round bottom five arms reach muddy. = 5 fms. water in stomach contents speckled shrimp ?. = fishes; shates worms Pescadilla small equalid + Pimpinella = Paphaea Corvina = shells.

H. I about 9 a.m. = Ph 8.4 good test.

57 Density 70.5 or 6 1011.1

Pescadilla & Moray = 29 cm. long.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Position,

Bearings,

Time of tide,

State of sky,

Temperature of air,

" surface of water,

" at bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

Moray had 1 big Pescadilla inside 29 cm. long.

Small flat shark saved had shrimp inside

Pescadilla same Dremoleras tells me the gut then selves with [illegible] reason.

Corvina eat shells like rat fish.

Palometa eat shrimp.

Skate worms of which a few fragments were saved.

#57 Applies to hour Rauls

When I hauled Chimaeras and of ice (out of box packed in ice) an eye of large size found hung pieces of which I thought was open around mouth through membrane of lips or lining of mouth had scratched off. Disposed of waste basket had thrown it to one side later when I got to bottom of box realized when I saw another in ice that the large parasitic worms. When alive were thin + large [illegible] (= translucent) bright magenta marks made me think of pictures of glass larvae of eels.

#58 Should be 18th Nov 17 1925
Nov 18th REMARKS. S.E. Ponton Paro Banco Inglés (approx 3 mi)
7 a.m. 7 1/2 fms. mud. Density 1012.10 70°5
Air 20° Water 20.25
Water green.
= Sta #1 of Inst. Pecca for the day.

A.I. = 8.8. 530-6
Tow net hauled solid many ctenophores, interfere with haul. From large shark took two isopods from hinder dorsal fin
Saved few fish.
Pc. of alcyonarian came up in ~~Bango~~

#59 Cut open number of dog fish got pinnotheid & worms & mollusk specimen & 1 young dogfish of grand female
2 got two crabs found x squeezed mollusk specimen out of another
" 2 isopods & crab legs in bot another
Saved Coronula diadema full of eggs.
Pcs Bryozoa / off / of / otter boards

#59 Pescadilla fishermen have much of anything to day
[illegible] dittos sting ray & sea robin [illegible]

#59 = (#2) Nov. 17th 1925
9. a.m. S. Ponton Paro Banco Inglés
(Approx 10 millas, 7 fms. mud bot.
Air 20° Water. 20°25

TEMPERATURE RECORD.

#60. (= #3) 1 p.m.
Instrument used,
Current number of observation,
S. Ponton Paro Banco Inglés
Date,
(Approx 15 millas) 8 fms.
Locality,
barro
Air 21° Temp. Water 20°25
Bearings,

#61 (#4) ~~Cuatro~~
Time of day, ; of tide.
State of sky,
E. Ponton Paro Banco Inglés.
Temperature of air,
8 1/2 brazas barro
Air 21°5 Water 20°5.
" surface of water,
" at depth of fathoms,
" of bottom,
Verde
Depth, in fathoms,
Got two Corvina negra
Nature of bottom,
one on first haul out
Direction of surface current,
2 1/2 feet long one on last
Force of surface current,
haul 4 feet long.
Direction of bottom current,
Force of bottom current,
Larger spotted sharks
Name of vessel,
had much digested fish prazz
To what service attached,
in stomach, of longer fish in
Name and rank of commanding officer,
all but one. In none were
fragments recognizable
Name and position of observer,
Sort of shotty on way back for
Motorider.

62. Punta Carreta
Nov. 21, 1925
4.30 p.m. fer crabs
amphipods & isopods

REMARKS.

[illegible] measurements in terms of length of gill slit
large size 7 gill slits
[illegible]
[illegible]
pars pelvic pleuropectoral

63 · Nov. 24, 1925 H.I 8.41
5.45 – 6.30 a.m. Tornet
already for light
Density 1.0139 Temp. 77.5 in lab.

Shark 4' 3/4" long
1st gill slit 5/8 from tornet
begins of pectoral nearly 7/8
begins of dorsal 3/8
upper lobe of tail [illegible]
[illegible] 1 + 1/2 + 1/3 of it
only one little dorsal
[illegible] black spotted
[illegible]

3

63 (#1)
Nov. 24/1925

TEMPERATURE RECORD.

Instrument used, hora siete
Current number of observation, E. Isla de Flores
Date, cabrillas 4 millas
Locality, siete brazas
Bearings, bmo.
Time of day, air 190 water 200
State of sky, [illegible] of tide.
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom,
Depth in fathoms, 7 [illegible]
Nature of bottom, N. E. Isla de Flores
Direction of surface current,
Force of surface current, cabrillas 6 millas
Direction of bottom current, cinco brazas
Force of bottom current,
Name of vessel, bmo.
To what service attached, air 20° water 20°5
Name and rank of commanding officer, [illegible]
Name and position of observer,

Put over oyster dredge twice at conclusion of other haul, put over oyster dredge in 7 fms. for 2, 10-15 min hauls. got very soft mud, worm tubes & clams, + 1 shrimp (Xiphopeneus).

63 (#2)
Nov. 24/1925

#65 REMARKS. Nov. 25 - 1925

Water Temp. 22.5° C 11.35 a.m. | Density 1000.05 Temp. 64°F | on Grawler off Punta Mono off boat house Ph. 76.5 3.53 p.m.

3.53 one haul from bridge abutment

(6) 66 about northeast north of grasses 5 p.m.

#67 few amphipods

Nov. 25, 25 #67 1st haul day in Montevideo

Made about 4 hauls dredge hauls in river channel below bridge all same sort of stuff, 2nd haul. Lips. one of the net was empty it had a couple of branches of dead trees just coated with barnacles of which were a few sticks. One of these hauls had a number of flat gastropods in them. The depth was bet 3-4 meters. Water was very turbid + bottom was soft black ooze.

Barro Santa

#65, 66, 67 Sucia

Uruguay

Manuel Fernandez

Nov. 27 Thomson brought me in a few eagles + amphipods

TEMPERATURE RECORD.

Instrument used,

Current number of observation, on Grawler off Inst de Pesca 1.

#68

Date, Nov. 28, 1925

Locality, Made four net haul 4.55 - 5.10 a.m.

Bearings,

Time of day, a.m. see #69 of tide,

Barro Arquimedes

State of sky, 7 brazas bot = barro

Temperature of air, Air 17° surface of water, Water 18°.5

Water color = barro

#69 (2) 9 a.m. Nov. 28 1925

Depth in fathoms, of bottom,

Barro Arquimedes

Nature of bottom, 7½ brazas bot = barro

Direction of surface current, Air 17° Water 18°5

Force of surface current, Water color barro

Direction of bottom current, Got some good shell and dead shell with bryozoa

Force of bottom current, Got some or a few sponges

#70 (3) 11 a.m. Nov. 28, 1925

Name of vessel,

To what service attached, 7½ brazas bot = barro

Name and rank of commanding officer,

Barro Arquimedes

Name and position of observer, Air 18° Water 18°5

Water color barro very muddy.

Very rough day Isabel sung sick in port.

#71 REMARKS.

Dec. 1st. 1925

In little tributary to Anoyo Miguelete in the Prado. Tried to catch big Aeglea with hook net + meat but caught only a little one, main stream very muddy. Tributary clear + very shallow.

Temp. of main stream | 28.5°C

got about 3, 8oz bottles nearly full all sizes from medium to small but large ones on the one said to exist I didn't find.

Went with Tremoleras.

Aeglea thick under grass + debris in water especially plentiful probably due to luncheon, meat remains thrown in stream by picnicers.

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, ; of tide.

State of sky,

Temperature of air,

" surface of water.

" at depth of fathoms,

" of bottom.

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation,

Date,

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Name and position of observer,

REMARKS.

TEMPERATURE RECORD.

Instrument used,

Current number of observation.

Date,

Locality,

Bearings,

Time of day, . of tide.

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms.

" of bottom,

Depth, in fathoms,

Nature of bottom,

Direction of surface current.

Force of surface current,

Direction of bottom current.

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Name and position of observer,

REMARKS.

Two largest graptsoides from Ilha Grande Aug 27, 25

backs a slaty black with cinereous markings and lavender gray splotches

branchial region where thighs of hinder legs fold over them eye stalks and legs when alive would call a mahogany red with black brown splotches (thighs (meri) of all but last two pairs of legs with whitish spots maybe pearl gray. Red is almost crimson x orange chrome shading off on bases of palps to saturn red to primrose yellow to nearly white

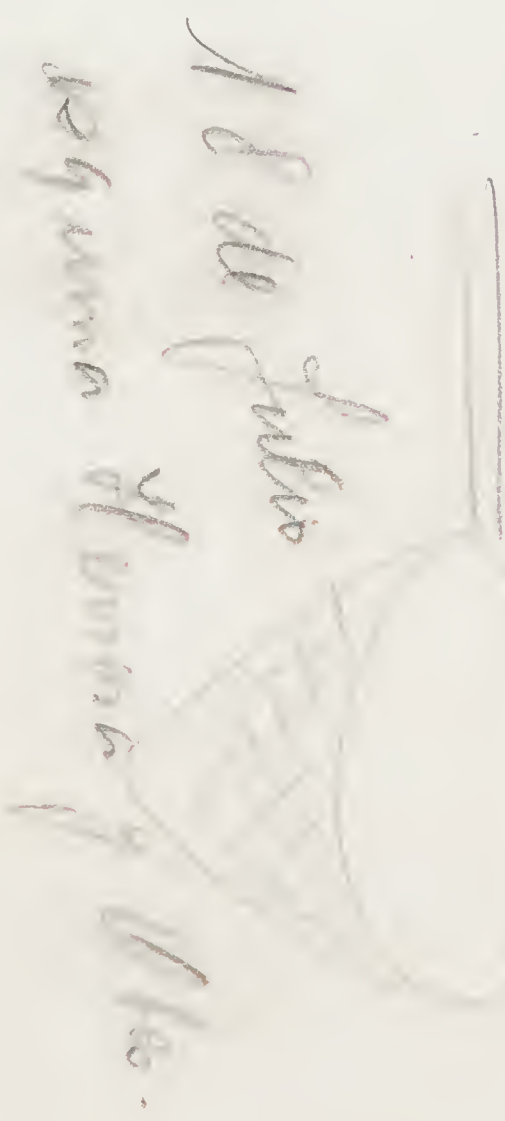
Turned down part bet. eye stalks real dark deep red like eye stalks.

propodi of walking legs sort of ochre yellow ?

all joints of legs of 3 mulle laving except meri which are

color of backs this is more umber than in large specs & outer meri not last two pairs more white splotches than in large specimens

Chelipeds colored same as in large ones. Under parts yellowish like hands. which color runs over to pax half of underside of meri of walking legs & entire under side of chelipeds



Kurt Faber: Rund um die Erde

Trays to fit sieves + vice versa

M. Méheut
Étude de la Mer
Faune et Flore
de La Manche et de l'Océan.
Texte par M.-P. Verneuil
Préface par M. Yves Delage.
(Nouvelle Édition)
2 Vols. I + II
Éditions Albert Lévy
Librairie Centrale Des Beaux-Arts.
2, Rue de L'Échelle – Paris
1924.

Pêcheurs de Urugway I
Dr. Gurihalde: J. Beuinoenz!
Dinal. del Museu Nacional de Montevideo. Ser. II, entregas 4 y 7-13. Montevideo. 1920.