FILING COVER
To Bind Completed Matter

Course given by

SUBJECT:

For the
NATIONAL SEPARATE-LEAF NOTEBOOK
Patented by E. W. Hill, July 5, 1898.
Sta. 1046 4  Feb 14
3.15 - Pm to 4.15 - Pm.
Off Trinity Shoal.
S. cloudy rising sea wind.
11 1/2 Fath. = 2048 M.
Blue wind. Sample.

0 63.5° W.S.
20 10-3 17.35 @ 18
Muck dead water bottom.
Note 8 1/2 M.
20 min.
20 net 0. Scantly diatoms

1/2 mm net 0. Scantly fossils up to

20 min.
Bottom net 20-0. Fossils. Nothing else.

Shrimp trawl 10 m.
Nothing. Barrier bottom.
(10 m)
10465  Feb. 25, 17
7.45  AM to AM

N.W. fine smooth sky cloudy
Calesson bearing N W by W 10 miles
1/2 path = 8 meters
Muck bottom
Surface water muddy.

0  53.5  W S

m.  16-3

20 min 25 min
0 thick drizzle
1/2 min 0  Split
Slight
0 good head of sands
Shrimp travel 1/2 hr. 27 shrimp

2nd hand.  3 1/2 feet sound.
8:50 AM  slight bearing N
1/2 hr.  16 shrimp

T T 1 075.6
3 48
Feb. 15, 17
10,45 A.M. to 12:10 P.M.

S.E. of Sabine Pass

5' path behind - 9 a.m. to 4 feet
Surface 52 W.S.

Shrimp trawl - 1/2 bag

3 Shrimp
3 Cutters
2 boothfish
1 bluefish
A lot of anchovies
1 amberjack
10467  Feb 16, 17
3:15  Pm, 4:01  Pm

7 miles SW from Sabine Pass

S, cloudy light rain

7 fath 12.8 feet sand bottom

grey sand and sand. Sample

0  = 54  0
W, S

12 Mr. #13, 3  12 69 @ 12  W 81

20 met 0 3.35 Pm. shower very slowly  

290 met 0 29_min fairly abundant brown

1/2 in met 0 30% Scanty refuse or young fish

Shrimp travel 30 min slow

25 shrimp 1 small herring 15 anchovies
1 hogchoker
17 small ale fish 1 harp
17 small trout 12 small powder crabs

Water very green but fairly clear.
Feb. 17, 17
off Salmon Entrance
SSE Fresh, choppy, clear.

6.15 AM
4 m
Whistle buoy-laying NW 28° NE 3 cables

6 1/2 faths = 39 ft = 11.8 m

Shrimp trawl; 6.20 AM

Surface temp 53.5°

31 large prawn
4 young shrimp
Feb. 26  \text{ Monday.} \\
Left Wharf at Galveston 2 P.M. Water green with little mud between jetties. Surf temp 64 inside.

Temp at Wharf. \\
Feb. 17^{\text{th}}  52 \text{ F.
} \begin{array}{cc}
4 & 18  & 52 \\
7 & 19  & 56 \\
10 & 20  & 55 \\
13 & 21  & 56 \\
14 & 22  & 56 \\
15 & 23  & 60 \\
16 & 24  & 61 \\
17 & 25  & 64 \\
26 & 64 \\
\end{array}

This is pretty fair record of lower bay, as tides bring the water by.
10469 A. Feb. 26
33.5 P.M. to 9.05 P.M.
4½ to 9 fathoms.
Partly cloudy. S.S.E. Light

4½ fath. depth,
5½ fath. 1 fath.
Bottom: Hard
crushed brown mud
surface temp. 60.5° sample
water green & fairly clear.

Shrimp trawl 3.40 P.M. 15 ft
40 min. to 50 min. N.W. ½ N.
See over 1
20 net 0 3.40 P.M.
25 min. Fair haul micro.
½ in net. 0 3.40 P.M.
many chondrus, nothing much
else.
60 med. to large shrimp
5 small
6 1/4 small octopuses
2 bog chokers
4 tongue x pd
4 cutlass
2 large + 2 small mantis shrimps
4 1/2 small hake
4 butterfish
4 small mytilus
1 small squid

B. 4:30 P.M. 6 1/2 fath and
Shrimp trawl 15 ft.
1 mM. to position NW/W. stay 8 fath.
8 fath = 14 1/2 m. and + B.
Surface 65.5
14m. # 15-3 15.52@17 W/S
= 60:55

1/2 bucket fine large shrimp
1 bucket fish - see over
Stickleback 279
Mendocino 1
Bandit 1
Pacif 189
Crow 13
Batfish 1
No, Ho, Shocker 1
Batfish* 2

Tonga fish 2
Eels 4
Dolphins 6
Robin 1
Catfish 1
Gutter 4

C. 5:50 Pm. E trade and
faster beavy NW/4 W. 1 hour
4 2 very large 4 small almost
1 black drum 6 1/2 R g. 77 C.
1/3 bush, fish as follows.

\textbf{Wrencher 39 (kept)}
Front 188
Whiting 15
Spat 3 large
Crackers 47
Cats 4
Seaweed 2
Stickleback 40

\textbf{Stay ray 1}
\textbf{Dolphin 1}
\textbf{Dolphin 8}
\textbf{Puffer 1}
\textbf{Sticker 11}
\textbf{Robin 3}
\textbf{Mustahar 5 1/2 ft}
\textbf{Batfish 1}
\textbf{Tongan 1}
D. 7 P.M. 1 hour to 9. Fath. 
Bolivar St. WNW. in 9 fath. sand 
and mud bottom. 6 large many small shrimps 
2 trout 4 catfish 4 croakers 1 sturgeon 1 perch 1 6-spade fish 2 large Spot 1 trout 1 
fish

E 8:05 P.M. 9 fath. live mud. 
1 hour to Bolivar St. WNW/4 W 
2 large many small shrimp 
7 good sized whitefish 1 robin 33 small 
flounders 2 trout 5 catfish 5 croakers 1 3 
perch 1 sturgeon 1 sting ray 3 spade 1 
largemouth bass 2 largemouth bass 2 
shad a few small eels etc.
Feb 27^e^ 1917

7 fat haddock clean. 5 fresh mackerel. Sand bottom.

12:45 a.m.
Shrimp bread, 18 ft. 1 hour.
5 large codfish, 1 small flounder.
110 Taut
5 croakers
3 spot
59 silverfish
12 good whiting
1 scarus
4 Spades
1 Orthorhincus
1 Redfish
1 Diphactan
2 Whiting six

8 small flounders
6 tongue fish
3 batfish
5 mackerel
1 Sting ray
1 Butterfly ray (Raf)
Feb. 27th. 6 A.M. S.
Calm, clear, choppy
Surface temp. 64°
10 feet sand, tending N, Bottom light, bearings N by W. at start.
Shrimp trawl, 10 ft. wide.
50 minutes.
8 small shrimp, Scad
1 crab, 63 mm. 8''
20 trout (mothers)
2 lobsters
4 cutlass
3 eel
1 Diplodus
2 Spades
1 Poribitopus
2 small flounders,
2 four armed.
Height x butt, trout (mother)

18 in.  43 yr.
19 in.  52 yr.
19 in.  3 yr.
19 in.  62 yr.
19 in.  62 yr.
20 in.  72 yr.
22      100 yr.
23      102 yr.
24      11 yr.
25      14 yr.
25      14 yr.
27      21 yr.

What? 1

23  -  130 7 yr.
24  -  170 yr.
Feb. 27  #1

6 - faith. sticky

clear, calm, light West.

8.20 AM 9.20 AM

Galgoy Notte bearing W. turning NE
to 4 faith. " " NW 1/2 N.

Shrimp met 15 ft. 1 hour to 4 1/2 faith. Notte W by NW.

Many large jellyfish on surface. Water clear green.

31 large shrimp, no smaller ones

7 Whiting

3 mackerels

1 Gurnards

1 Scup

1 Catfish

6 Leatherjackets

14 Butterfly fish

1 Small Herring

2 Sticklebacks

1 Robin

1 Pike fish
I. Hotel W. 41/2 fath.

9:30 A.M. Tower E

1 hour to position NNW Hotel W

had 8 ft wind.

54 medium to large shrimps

1 stringray

1 chokomyte

170 small shrimps

65 trout

1 mullet

1 Orthopotes

2 Cutlass

1 Bettle fish

2 Pito fish (left)

4 Whiting

3 Robins

1 very small Anemophilus

4 squids

many large pellics
10.40 A.M.

Gotten NW by N. Noted W

to join NW. I shrank

399 things, 2 baskets, 12.25 Kg.

a few small fish, practically

It came as house I.
X, contains from J
11.45 A.M.
12.45 P.M. 7½ feet
1½ barrels fine large shrimps
about 1 bucket of fish, mostly trout + whiting, same as before

Nota Bene: Sta 10469
Tin tag 10757, 12 Menhaden
10758, 1 Skate
59, 1 Ray
60-61 + 62, Cynoscion roenthis
63 + 64, 24 Menhaden
65, Cynoscion roenthis
66, 2 Menhrelinus
67, 10 miscellaneous
68, 4 Combiers
69, 12 Menhaden
70, 9 Cynoscion roenthis
71, 6, Missile
l. Continuous with R.
12.00 PM to 1.20 PM
7'/2" path 7'/2" + path
1'/2 hour

31 large shimp
a few small

3 Whiting
46 Trout
5 Redfishes
1 Dillburn
10 Croakers
18 Stiltfin
1 Yellow Jack
2 Speck
1 Small flounder
1 Legrand
a few squid
Mr. West of Jetty.

6/12 feet sandy
7 feet weaving, S.E.

3.10 P.M., 45 minutes.

Clouds came loose while landing, all lost but 2 large black ducks.

Quite a number of shrimps in bag, also 2 more ducks & some large jellies. (Prob. cusk eel shrimps).

Black duck, \( \frac{9}{2} \) cm, 7 3\( \frac{1}{2} \) Kilo

Ripe \( \frac{7}{2} \) cm, 9 1\( \frac{3}{4} \) Kilo

flesh full of large worms.
I. Feb. 27 4.25 p.m.

3 1/2 fath. Surface Temp. 61°

Jetties South. Light SW by W. 4.25 p.m. ENE (about).

Towed to jett. SW by S. 3 fath. wind.

8 fath. Medium to large flounder. 


1/2 bucket small fish as follows:

- Trout 173
- Skatefish 20
- Croaker 1
- Whiting 4
- Spanish 1
- Harverst 3
- Tongue 3
- Chicken 1
- Mackerel 3

Cutlass 7

Robin 1

Mothfish 1

Barnard sea 1
Feb. 27.

6.20 P.M.

Felt SSE 8 to 12 m. S by W.
6 fish, third 1 hour.

234 large to medium shrimp; filled 1 bucket; weighed 6 Keg.

\(\frac{1}{2}\) bucket of fish, as follows:

<table>
<thead>
<tr>
<th>Type of Fish</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butter fish</td>
<td>17</td>
</tr>
<tr>
<td>Batfish</td>
<td>4</td>
</tr>
<tr>
<td>Small flounders</td>
<td>9</td>
</tr>
<tr>
<td>Whiting</td>
<td>14</td>
</tr>
<tr>
<td>Stickleback</td>
<td>83</td>
</tr>
<tr>
<td>Anchovy</td>
<td>9</td>
</tr>
<tr>
<td>Mackerel</td>
<td>12</td>
</tr>
<tr>
<td>Croaker</td>
<td>5</td>
</tr>
<tr>
<td>Trout</td>
<td>70</td>
</tr>
<tr>
<td>Largemouth</td>
<td>1</td>
</tr>
<tr>
<td>Basset</td>
<td>3</td>
</tr>
<tr>
<td>Tongra</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fish</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robin</td>
<td>1</td>
</tr>
<tr>
<td>Coho</td>
<td>3</td>
</tr>
<tr>
<td>Hump</td>
<td>2</td>
</tr>
<tr>
<td>Deflection</td>
<td>2</td>
</tr>
</tbody>
</table>

Several large jellies.
Sta 10470  Feb. 28

9:30 Am to 11 Am
Position not well determined

8 1/2 fath = 15.5 meters below bottom
S. Choppy light calm

W/S 62.5
15 km., #153, 16.66 @ 20

Water clean, greenish blue

20 net 0 9 1/2 in. Scanty inverno
1/2 in. net 0 9 1/2 in. Very scanty
ded bottom to 0 9 00 Very scanty

Otter trawl

Many small cuttlefishes
16 small Octopus crinipes
TT 10772 + 10773

Raw 5 miles N. to 9 fath
sand - see below
Haul B. 9 feet yellow sand. Moon, to 12.30, 9 feet till mud and sand. 2 boat fish. 2 small grunt. 2 stillfish.

Set 29°10' Long. 94°24'

7 feet. Sand patch, 45 miles going NE to 7 fath. 3/4 sound. Lightening SW 2 miles. 1 small albatross.
Haul D, March 1

8 AM 9 sand, 44 yds
1/2 hr ENE
1 large squid, (sh(ept)) 7F 12775
a few small cutlass fish
0.5" shells

Haul E

8:30 AM 10 feet sand,
1/2 hour SW. fog, wind 9 1/2
9 1/2 sand, 2 cutlass fish

F

10:40 AM fog 9 1/2, wind 9 1/2 to swell

1 red algae 2"
1 red alga 4"
G, 2.25 P.M. Thick fog. 14 feet sand + sand. 1/2 hr. Blue water surface 66° W. S.

20 Cyanita, nothing else.
Color when alive T + 101716
Silver with bronze + purple reflections. Largest ones with traces of 3 dusky vertical bars, 1st from 1st Dorsal to base posterior, 2nd from 6th dorsal spine, 3rd very faint, from 10th dorsal spine.

Top of short pectorals
Interorbital region + male olive
Spinous Dorsal edged with yellow membranes
Soft dorsal yellow at margin, 3 lengthwise rows yellow spots, light blue spot between Distal edge caudal maroon, edging salmon at tips of lobes
Anal with faint yellow band
Scales of back bristled at edges, giving the effect of stripes. Innerved brown
Sta 18477  March 14th
9.45 Pm. to 10.40 Pm.

W. S. W. cloudy, choppy sea.
Squally showers.
28° 30'  04° 29'.

19 fath. = 34 meters.
Bottom soft mud.

0 68.5°

30  4/13. 18230 @ 19

20 hrs  10.00 Pm.

John Shantry anaerobic
Red, 2 sq. = 4 ft.
1/4 in. = 0  Rich food, 2 sq. 4 ft.

Bottom mud 30-0  Rich sand 4 ft.

Olta truth:  too equally.
Sta. 10472, Mar. 2, 17
7.30 AM to 9 AM:

N. Light cross sea, showers
28° 02', 94° 40'
35 fath = 641 meters. Sample
water very blue.

0     69.5   ✓
20 = 148  20.42 @ 20   ✓
40 = 151  19.40 @ 20   ✓
60 = 153  18.18 @ 20   ✓

Waving Physalia, very large.
Nets 7.5 AM

20 mit 0 Rich micro + general
1верн mit 0 Rich benth. food - some
young fish

Nets mit 55-0 Rich benth. food, 11 + grin.

Other trawl 9:30 AM, 1/2 ton
4 Obliquus 2 other fish
30bacin 2 sag. sea cucumbers
1 Sagus trapezoid. Katz
several bennett, Katz

Total 10774
Sta 10473  March 2, 17
11.15 A.M.  1.15 P.M.

In fresh, shelly, deep clay

77 fath. = 140 meters.

Soft or hard, very compact.

0 71° 05'

<table>
<thead>
<tr>
<th>Depth</th>
<th>Value</th>
<th>20.15 @ 19</th>
</tr>
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<tbody>
<tr>
<td>70</td>
<td>148</td>
<td>16.80 @ 19</td>
</tr>
<tr>
<td>100</td>
<td>15-1</td>
<td>17.85 @ 19</td>
</tr>
<tr>
<td>135</td>
<td>15-2</td>
<td>15.33 @ 19</td>
</tr>
</tbody>
</table>

Water met 121° 00' @ 70 fath.

20 m @ 0 925' 0' 0".

'In met @ 121° 05' 0".

'Fath. hard fabric.

Ophite limest. 1/2 lin.

Sand found, nothing bad.

March
0.00  1
50    145  20.40 @ 20  
100   153  17.32 @ 20  
200   149  12.70 @ 18  
300   144  10.00 @ 20  
400   131  8.62 @ 20   
500   150  7.48 @ 20   

Meters cast 500 - 0
Begin stopped, failed at 700

1/2 in. net 6.10 PM 400
6.10 PM 400, rich foods.

Bottom net 7.15 PM
1 large fish
3 large fish
2 keeper fish. Good bank

Wall, 2.5 mm, NW, cloudy, overcast.

70° 30' 0" 49S
**March 3, 17**

8:15 AM to 9:40 AM

Cloudy, N, E, Cheeky sea.

Wind = 155 m.

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<tr>
<td>0</td>
<td>69</td>
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<tr>
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<th>m</th>
<th>@</th>
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<tbody>
<tr>
<td>50</td>
<td>148</td>
<td>20.87 @ 19</td>
</tr>
<tr>
<td>75</td>
<td>143</td>
<td>19.84 @ 20</td>
</tr>
<tr>
<td>100</td>
<td>149</td>
<td>16.90 @ 20</td>
</tr>
<tr>
<td>125</td>
<td>148</td>
<td>16.90 @ 20</td>
</tr>
<tr>
<td>150</td>
<td>143</td>
<td>16.90 @ 20</td>
</tr>
</tbody>
</table>

Sled run 150-0.5 km, good hard general, good hard.

Good hard, good hard, good hard.

12.30 PM. Wind increasing. Magid storm call.

Breezy, as at close of this station. Reeled mainsail.
USE THIS IN THE BOOK
AS AN

INDEX SHEET

To divide off the work in different studies

OR

as a

FILING COVER

To bind, with the fasteners, all work worth keeping for review.

For use in the

National Notebook

Patented by E. W. Hill, July 5, 1898.

SUBJECT OF STUDY:

To index the book, write below on the margin, the name of the study
10476  March 5
9.30 Arr. to Act. off Aurora Pass. (N.E. Light smooth. clear)
7/5 feet on bottom

N.A. A. from sw on buoy N. 9.30 A.M.
S.W. 45° 7 to 5 fath.
Surface Temp. 58°

1/2 hr net 9.30 min. 1/2 hr,
Scantly small fish, smelt, smelt, fish, eggs.

Shrimp haul 9.30
1/3 hr. each, 5 large shrimp.
1/3 fish.

Haul B. 11 A.M. 7 fath. to 7 1/2
from buoy. N.E. 40 min.

TT for certain Traction
1.0778 – 10789

Sta. end of B. Bush bearing WSW
7 1/2 fath. 13.5 m.
8 1/2 fath. 15.2 m.
O 58°
13 m. #153 15.23 @ 15 W.
Haul C. (Continuing B.)
11:55 A.M. 35 min to 9 fath.
Slight W by N.

1 Cat
1 Shark
1 Large, 2 Sm. Squalus.

Caught 2 Squids.

Declined Haul. 12:35 P.M.
1/2 hr. to 10 fath.

Fair bank poor tag west.

Color of Brotula in haul B
Ground pale flesh color.
4 rows markings of rich brown.

Haul D 16 miles NE from Light.
"Deutsch" beam. 3:05 P.M. Tobing E
Sound when shelled. 1 hour.
27 large 21 medium Shrimp.
Some of each shrt.
A few fish & squid all kept.
E. 7:10 PM.
Cavallo at NNE 5 fath. to 8 1/2 fath.
Wind SE by S. freshening.
Smooth sea, towing E. good sound. bottom 1 hour.

1 basket fine large shrimp.
1 " Stettler.
1 basket other fish, many keep.
1 Astereopes.
3 small Brent heads.
Several good Whiting.
But very few young food fish in thin bough.

NWW 5 fath 1 9 3/4.
F 8:40 PM 8 1/2 min.
Gas too rough to fish.

Quiver
Nearly a booted large thing
in beaked rattle
in pop-food first soil
white
a variety of stuff things
March 8th, 1917
Left Galveston 2:30 P.M.

Sta 10477. 6 1/2 miles SSE from south jetty, bowing NE.
5:20 P.M. Surface 59.5°
Partly cloudy ESE, smooth light.
Soft about WW.

1 bull
1/2 bushel large shrimp
1/2 bushel stillfish
A few small limit
1 Lanibaden
1 Brotail
2 Spot
15 Flatfish
8 Whiting
3 Croakers
24 string rays
1 Shate

5 spades
2 bars
1 Harvest
3 Croakers
2 Legard
3 Tongues
2 Calculs
A few small squid.
10478 A 11.30 1.15 Am
Brages at NW. 10 feet. soft wind
Clean. smooth SSE light
bright moonlight.
1.15 Am. turning SSW slow
1 hour, to 10 feet. soft wind,
Surface temp. (at end) 59° W8
Bottom #133 15.60 @ 15 W8
20 net 2.47 net to 3.30 Am. micro
1/2 min 20 " " 1/2 nile feet
1 bucket large. many small shunt
31 small flatfish
6 large. 74 small herring
13 " 4 " herring
2 large
8 sm cramp
2 lamprey
156. Shellfish
2 bat
4 stade
1 Squid
1 Herring
1 Clamp
2 ?
B. 34°N - 34°N
Para. NW 45°W
3 1/2 feet
1/2 mile
1 hour

6 1/2 feet
1 hour (short chart)

Soft mud
1 bucket large amount = 1 2/5 large shrimp, character 1/2 bucket fine, near as hard as with the addition of a few three-shades.
Height NW by N. 6 feet.
5 feet long SW to 5 feet 1 foot.
2 buckets large yellow
49 need to large shrimp
1/2 buckets pink, same character
as hand A + 2 Bandrilla
D 6 km 15' 48 mil from
S by W 6-4 6th near
N N, S S W 1 km

1 bucket used to get 2-3
200 (buck not quite full)

1/4 bushel fish, same as A,
but no flatfish, and
no turbulences
F. At 9 AM:
6 medium about 1 ft
A few small whitish + some
A few Still life
2 pitchers large jellies

Note: from 4:30 to 5:15 pm, to wash, light W by S,
very soft red moon.
11:05 AM

2 falls coming NE

The wind spent, and
40 min. to 7 1/4 fath.

filet

1/2 buckets fine large shrimps

1 bushel Stellwag

Very few other fish, due to a few menhaden.

F. E. Greene, Clancy

12 AM. (Continues with F)

1 hour to 6 3/4 fath.

44 medium shrimps

1 bushel Stellwag

1 bushel big jellies

Practically no other fish.
3.8 miles

7.56 km/sec = \text{cm/sec} / 4, 1/2 = \text{cm/hr} / 2
March 16th, left Salvador
7.30 A.M. light SE air and
a little lop that cut down the
vessel speed under power very
considerably. 4.15 P.M. arrived
at Neala Lightship and delivered
400 lbs salt, +2 barrels.

Speed of vessel exactly 4 miles
an hour for the 35 miles and
that going with engine full
speed (at some half of tide, as log)

Sta 10479 next

Total tags = 10478

10790, Skates
91,12 Menhaden
92,12
93,12, miscell
94,3 botekei
95,9 menhaden

96 Liquid
97,85 small flounder
98 mussel small
stuff.
Sta 10479.  Mech 16\textsuperscript{th}  
6:55 Pm.

9 fath sand, gravel & mud
11 miles SSW from Neah Head Light
SE. light, cloudy high swell.
Surface temp. 66\textdegree.
Towing ENE Shunt travel
1 hour to 10 fath.

3 buckets for as follows:
Orthopristes (spawning) 108
Tout, nothing, 3 wide, 1 wide, 1 small
Spot, large 13.
Croakers 1
Oyster 3
Pinfish 7
Whiting 4
Dolphins 11
Robins (2s) 9
Gurnards 17
Puffers 2

Anchovy 25
Small Pilchards 39
Brotulids 3
Legards (2s) 3
Sea cats 2
Croakers 3
Many small shrimp, crabs, shells.
Haul B = 40.5
grid = A
8:00 PM.

After 10 minutes, a western started in and stopped work for the night.
Very little in this haul, added to A.

TT 10479
10779
10805

Sta 10450
TT 10506
10807
10480  March 20.  12:35 Pm.
S E stiff, choppy, flat cloudy.
Salvator, sea-buoy bearing
W 1 1/2 miles.
Longing E E E.

Surface temp. 61°
Too rough forbottom.
Skimmed twice c.k.
4 1/2 pm:

Shrimp  2/4
Stiffen  22
Trout  23

28 large shrimp.
94 Stiffen
32 Trout
7 Croakers
1 Whiting
2 Hake
1 halibut
1 fillet
2 lobsters
1 anchovy
3 squid.
Feb. 20.
Left Galveston 11 AM
12:35 PM Made Sta 10440
Stiff SE breeze tough, choppier
sea, cloudy, cleaning late.
Set course for SW Pass.

At 1:21 light SE airs, smooth
sea, engine running all day. In PM
formed torpedo-boat brand West-
Blue water all day, much breeze.

At 2:22, light SSE breeze, smooth
sea, clear. School of porpoises at
noon. 3 PM, many pelicans,
no sign of fish—trolling line over
yesterday's catch.

3 PM Surface 70°
4 PM 63°
5 PM 52 1/2 off SW Pass
6 PM SW Pass lights 2 3-5°
1 mile E of 1000 fathom light 66°
Sta 1048-1 March 22
9.45 PM to 11 PM
17 miles E from SW Pass Lightship.
Smooth light clear SE
80 fathoms = 146 meters.

W.S.

30 149 21.75 @ 20
60 148 20.09 @ 20
90 151 18.77 @ 20
120 153 18.20 @ 20

WS.

W.T. 10:20 PM.
18 met 3 1/4 fathoms water mark.
1/2 in met 0 1/2 h. Rate 4 ft + gen.

Mete met waves 50-70 fathoms.
4 f = 70
10482 Nell 2 I

4:30 Am. 27 miles E of St. put over after three with 600 meters wise. That met on the end.

5:40 Am. sent down water and like a messenger 6, 45" headed both SE close right order. (near about 500 feet)

Stern, tossed 2½ hr. 500-0 or large Sternoletans, Hypothoids, Sternoptychids, Pyromed as at 3 ½ foot depth.

Water met 1 hr. 300-0 or beauty general hand.

Set course for Panama for engine & david repair when finished out.
I hope you are doing well. I wanted to check in and see if you had a chance to finish the second chapter. I sent the required materials to your email last week. Please let me know if you have any questions or concerns.
In 1971/72  Feb 28th
Pm to Pm
SSE light easterly winds
after 2 days westerlies
From Penordale and Gorey
Head A. from east by nor Ely S.
4 00 Pm. Borrata Sands
Surface temp 16.5° S.
Water full of ctenophores
Hauled 174 hours very slow
String twined - caught out
No wind
3 robins
2 heards
1 skate
A few squid
A large brown squid eggs
A few sand dollars + stars
T.T. 10 05 10 - 10 06 10
With 29° clear, bright SKY in SO, land from all the trees. Many pengiuns and considerable birds. Took several shots of pelican in water.
April 10 4:00 march 29 17

Dear [name]

5:30 pm to 7:30 pm

31 feet = 55 meters. hard sand

no swell.

Surface: 70° N

25° 151 21:40 @ 17

50° 153 20:21 @ 17

Squall lines — no bits

shark track 6 pm ½ lb. slow

1 ¼ hours 11-12

water met 60-0 6:40 pm ½ lb.

scanty 6 4 pm 1 lb

half in met 0 6:40 pm ½ lb

red small fish 0 6:40 pm ½ lb

15 met 0 1 lb

scanty minnow

IT 10 811
Site 16485  Tuck 30, 17
2 PM to 9:15 Pm.
clear, smooth light E
20 fath. = 36 meters
Sand bottom no sample
0 106.5  W5
17 151 19.37 @ 19 V
34 153 18.65 @ 19 V

Shrimp trawl  no wind for

Met 15/4 PM  Swains @ 2 1/2 qts
fish picked out 1/3 residue kept
1/2 inch 0 5qts, general
reduced to 4 qts  all kept
18 wht 0 Beauty
Feb 31st 9 AM
Complet' haul for Equinonebla
allatrac Straight F 12
T, testis undeveloped,
0.7 cm. hot 2150 grams (60 lbs)
Stomach a few small fish
(kept)

Note: lots school of large
flying fish.

8:30 P M: off Equinonebla
Navy about 10 miles.

4 P M: Spanish Mackerel

71 this 81
From tests undeveloped
Stomach empty.
April 1st. Sunday, arrived at Beta Granda, 6:30 A.M.

You will be here in three hours. 

Placed for lunch at 11:30. 

Sailed for harbor at 11:45.

Caught up with an storm.

Apr. 2nd. During trials in climbing on 11:00. Lab. in Pan.

Apr. 3rd. Left Boss Brando

6 Am. 100 feet fishing in Pan.
Sta. 1048.8, Apr. 3rd.
Boca Grande, water bloomy.
7 A.M. 10 A.M.
Depth = meters

Surface 74.5

Shrimp trawl 45 min.
1 bucket first 2 sec. below
1/2 m net. 1/2 m. Sea net, mostly minnows.
18 net. 1/2 m.

Rice, minnows, pond.
188 small red mouthed shrimp.
191 red bullet

TT 10613-10815
Apr 5 6 P.M. Trolling
caught 1 Charter Bluefish
53 cm

Stm. 1048.7
Apr. 4 4 4th ft
20 miles N from Happy 73.5
Passage:
11 Fathom = 20 Meter

Surface 74
20 m = 151 23.88 @ 23
18 m = 4.35 km 1/2 hrs
Rich Water,
1/2 m = 1.35 km 1/2 hrs
Fair general Current
Shrimp trawl: 4.50 km 40 mins,
net torn, 3 small flatfish
+ 1 Togenous fish TT. 10 E 16
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in different studies

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SUBJECT OF STUDY:

________________________________________________________________________

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To index the book, write below on the margin, the name of the study.
Porta (young) 9
Total 146 cm
 breathable of tail 34
Scent to D 67
" P 39
Height D 24
Base " 23
Length P 22
Base P 9.
Beak to groove 9.5
" " gate 21
" " blow hole 26
" " eye 25
Eye 2.5
 downs jaw to gate 21
Beak to vent 90.5
Length + vent 8
Depth at D 27
grey above, darker, lighter below,
notcual dark.
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