STUDENT

FILING COVER
To Bind Completed Matter

Course given by

New England

W. W. Welsh

SUBJECT:

For the
NATIONAL SEPARATE-LEAF NOTEBOOK

Patented by E. W. Hill, July 5, 1898.
E. 8:35 - 8:45
Soft 1/2 brown sand
few unclean shells
SSW 1/10 mile

F. Sand to Soft-Pebble clay
9:05 to 9:15
Sea clam shells, few oyster
shells, 1 small quahog clump
SW 1/2 S, 3 miles

G. 9:20 - 9:30
Soft to hard Blue-green
clay, dead quahog shells +
sea-clam shells
WSW 2 miles
10377  H.  Sta.  NE fresh cloudy 20N

11:25 AM - 1 PM
16 m.  18  S
0  71.5  W.S.
15 m.  148  15.9 @ 20  WS
SE by E ¼ E  7.2 miles

Clam dredge  11:30 - 11:40
1 king crab, 1 sea robin, few dead
yellowtail - sea clam shells.

Sled net  35 min.  very little
1/2 in. net p  30 min.  8
no net.  a  30  +  few crabs

Otter trawl  20 min.
1 lobster
2 sea robins  P. denceata  301
1 sea clam shells

Hand 31

1070 & 10
10715
10377  I.  16 m  SE\(\frac{3}{4}\)E 8 miles
2.08 PM - 15 min  7.2 7/16 miles
Hill + 4 ft. Blue clay + 7 ft.
6 Conchs (live) + dead sea clams
1 skate 11 10 7 17

J. Scallop dredge.  SE\(\frac{3}{4}\)E 8 miles
2.32 PM - 15 min.
\(\frac{1}{2}\) 24 Conchs + dead shells
Sea clams

K. 3 PM - 5 min hooked mile
Dr. Dead sea-clam shells + тта sand. Strong

L. 3.14 PM - 10 min  4.5 miles
1 burked sea clam shell
1 quahog shell Several live conchos.

From N by W
done NW by W 15 W
M.  Sept. 18 '10
3:43 P.M. 267 15 min.
1/2 bush, dead sea lilies
+ live celandine. Black band.
ESE 3.8 miles

N.  4:15 P.M.  Sept.
15 min.
7 candles + 2 large quolugs.
E by S 2.3 miles
Southeast to NE.
Ward into Cape Mon.
N/2 W
NE 45 E
NW E
W NW N/2 N
Sta 10378 Aug 11
NE light calm, smooth
Meerays Shool
9.45 AM - 10.30 AM
O 70
R 145 21.1 @ 22 W5
14.42
Otter trawl 1/2 hr.
20 net 0
1/2 m net 0
10 sm
Red & gray worm tubes
Sea robins 23
Puffin
Summer Flounder 5
Window span 1 TT 10718
Shute 1 (Same as Sta 10738)
Length of P. dentatus
37 cm 460 g
38 525 g
50 1155 g
41 660 g
34 405 g

Scaler data taken

A. 8:30 Am 7.2 miles
Soft 15 minutes
Clam dredge 11.15 AM
dead sea-clam shells
+ 1 quahog

B. 12.30 Pm. 1/2 mile
Otter trawl 5 by 8.8 miles
75 sea robins
+ 2 flounder
+ 1 Whidbey-Joan TT 10719
C. 15-5 P.M. Sand bottom oriented
Clam dredge 1 Sea clam: SSE 8 miles
\frac{1}{2} Sea clam, sea-clam shells

The dredge does not dig deep enough to get these sea-clams.

D 310 P.M. SE 3/4 S 5/8 N 1/4 E 1 mile
Clam dredge
| Gravel | Pebbles | Barnum |
Sta 10379  Aug 11
4:40 PM  6 RMS
Calm clear ground swell
27 m
1 mile SW from 5 foot lightship
O 74.5
25 14° 11.05 @ 18

Swarms of fish

Bottom 1. Chironomus 20 mm
1/2 cm at 0 Scanty
20 cm 0

Scalloped edge 25 mm clean
1 Band sand dollars, star
2 dead sea clam shells

Wet 1 2 miles from lightship
dudgeon oil coming to surface
10280  Aug 12  1 am
W1 W

2.3 fath. = 47 meters

0  74.5  W3
20  148  6.98  @ 19  W5
40  153  6.94  @ 18  W2

Bedrock: 35-0  Red 7+4'

1/4 in. 0  Storm trophies
20 w  0  Scents
1038.1  Aug 12  6:35 AM

Cloudy  S W, choppy, green waves, wind

38 fath. = 69 m

much gulfweed, bit of seafoam at 38 fath.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Vessels</th>
<th>4.4</th>
<th>Vessels</th>
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<td>17.17</td>
<td>24</td>
<td>6.8</td>
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<td>38</td>
<td>148</td>
<td>4.4</td>
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</table>

Scallop dredge 15 min.
6 scallops 1 block. Stars few good ones.

Bait nets: Bait + 0  Cal with South Current
Wart nets 25 - 0 Scanty small fish + salts
20 net + 0 Scanty
1/4 in. 0 many small black peas.
Dec 12. 11:30 AM 4:40 PM
NW fresh smooth Ocean

66 fath = 120 cm.

W S
40 R 149 7.05 @ 24 W S
80 n 148 5.10 @ 23 W S
130 = 133 7.05 @ 22

Arr out 1 mile to 70 fath =
125 mph T Set Travel at 12:45 PM

1 PM
Bottom net 120-0 100-yard mesh
Middle net 60-0 100-yard cal
20 mesh 100 pounds
1/2 no net 0 1 Range 10-

After travel, bottom 10 bags.
6th Week
1 lobster 31 cm long
3 color flounders
1 red 2 kelpfish
Cubs star sponges
Hinge, calf, + some small crinoids

TT 10722 to 10731 are good live-fish bottom?

1 agitated bahn
1 silver bahn
(unclear with tone)
August 12
4:15 PM  5:26 PM
W Calm Clear
9.6 Knots = 17.5 Mph

2.5  148  131.68 @ 22
3.0  143  5.2 @ 21
1.9  149  5.7 @ 17.5  WSS
1.3  145  11.45 @ 16  WSS
1.7  152  9.94 @ 19  WSS

Humphreys Whole
Adr. note
1038-4  Aug 12

6:15 pm - 9 pm

WNW 6, partly cloudy, light chop, 76.5° F

<table>
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<tr>
<th>Depth</th>
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<th>Current</th>
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<tr>
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<td>11.3 @ 25</td>
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<td>149</td>
<td>9.5 @ 20</td>
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<tr>
<td>200</td>
<td>148</td>
<td>8.48 @ 18</td>
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<tr>
<td>350</td>
<td>148</td>
<td>7.03 @ 20</td>
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</tbody>
</table>

Bottlenet 500-0  heavy, dark
Net set 250-0, Salts + bubbles
20 net 0

Small codfish
School of Perch & Blackfish

This was very calm.
Sunday Spots
10:00 AM - Dec 13
3:30 PM - Dec 13
Set for Tide to 15 feet + 11/16 and cloudy across area NW light

Seaweed Within - heavy but not
1/2 not on surface
Surface Temp 76°

Short Breach

Put over other travel
15 min
[2 jellyfish + some jelly]

Placella + Gulfweed
1038 6 Aug 13

N Squally fresh smooth cloudy

95 path 175 mis

Set for tippet 120 P.M.
Squall from North at 2 P.M.
just got done 4 had to cut away but of trawl

Fished main mast here to under jib & jumbo

400 P.M Wind moderating, got up main sail with one reef

Signed
10/31. Day 13 4:30 PM

NE stuff enough sheep behind

0 teach 76.5
34/ath 62 pm
through out 45-0 cm
1/2 in out 0
25 pm
too tough to risk thermometer

With out - lean & climax
Guts & Pads
1/2 in out straight all open feet
& 4 1/2
18887 Aug 21.
12 30 Pm.

Cape Henry St. Bury.
Last of Elba.
13 minutes.

0 74 W S.
(lost) 12m 148° 23.3@24 W S.

20 met 0. Rich green muck.
Sled mnt Bot-0 + clams.
Otter trawl, 15 min (slow).
7 blue crabs, 2 y sea-robin, 1 winter-fish.

Very few hake-fish.
1 small hake queen.
Halfway between 89 88
fisheem man with dows
out for blackfish - no luck
put over otter trawl 10 min
hard bottom
3:10 - 3:20 Pm
Aug 21
Sta 10 36 8

Croakers, mostly 7 with welldeveloped

<table>
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<tr>
<th>29 m</th>
<th>288.9</th>
<th>27</th>
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<tr>
<td>27</td>
<td>290</td>
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</table>
Sta 10389 Aug 21
4:15 P.M. -25.45 P.M.
15 with Ed Parris

Clean oarholt, light S breeze.
Plan, clean water.
19 hrs.

O 75 W-S
10 148 28.45 @ 26
18 153 22.40 @ 2875

4:35
Sled not hot-o
20 min 0
1/2 hr not 0

For clearings 4 1/2 min
1 1/2 in fair times
1 1/2 in clearances
4 ft & 3 steers

Otter travel 10 min.
5 croakers, same as before.
3 sea robins.
Net slightly torn.
10390  Aug 21
8.15 PM - 9.45 PM
South, fairly smooth, clear
40 miles. Fly 5 pm. 0 knots.
26 mph.

0 75
12 148 23.8 @ 24 WS
25 153 16.7 @ 24 W3

8.45 PM.
Slept out 26-0
20 m, 0
12 m, 0

After travel, 10 miles.
2 arrivals, 1 departure.
Smooth, basin bottom.
10391 Aug. 22 12:35 AM
1345 AM
Clear fresh 2 day zero, smooth.
22 fath. = 40 mi.
Rich Young fish.

73 W5
20 145 22-10 023 W2
40 153 11.09 023 W5

Steady 40-0 1/2 hr. at 9 knots
20 wind 0
1/2 in rain 0
Scanty;

Other, quaint 15 min.
3 large 1 small scallop
1 small Urophyes neglectus, T/10252
few stars 1 sea-clam shells
S18 1039Z
20-20 Ap 18 6 A+1
W Cloudy, fuel consistent
H5 fades 8-2 M

<table>
<thead>
<tr>
<th>Wind</th>
<th>Temp</th>
<th>AT</th>
<th>Press</th>
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<td>20</td>
<td>148</td>
<td>21.95 @ 23 WS</td>
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<td>40</td>
<td>149</td>
<td>6.92 @ 23 WS</td>
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<td>60</td>
<td>148</td>
<td>6.2 @ 22 WS</td>
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<tr>
<td>80</td>
<td>103</td>
<td>5.44 @ 23</td>
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Note: 0400 AM
1/2 in, all
Snow, red coated
Sled into 71-0 AM + Dec 14
20 cm out
Very sandy
1/2 in out

Otter trail
Salt & a few shells
10392 Aug 02
7.30 Am.

W fresh clear seaward - water very blue.

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<td>12.09@ 23</td>
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<td>6.59@ 23</td>
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<tr>
<td>400</td>
<td>148</td>
<td>7.10@ 21</td>
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<tr>
<td>500</td>
<td>153</td>
<td>5.49@ 18</td>
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<td>Inc @ 9.05</td>
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Bottom net 500-0. 1 Hr. furnished another large.
Meta net 250-0. 45cm. BJL 20.
½ Hr. net 0. Veh. Scanty.
20 met 0.
<table>
<thead>
<tr>
<th>Time</th>
<th>Wind</th>
<th>Speed</th>
<th>Direction</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>6:42 a.m.</td>
<td>15.5 mph</td>
<td>25 mph</td>
<td>NE</td>
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<tr>
<td>7:72 a.m.</td>
<td>11 mph</td>
<td>24 mph</td>
<td>NE</td>
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</table>

- 10:39 4:50 A.M. - 9:30 A.M.
- Clean SE, light Swarm
- 40 mm
- 605 mph
- 1252 @ 25 mph
- 20 mph
- 7:72 @ 24 mph

- 6:22 a.m.
- 1/2 a.m. 0
- 20 met 0

- Chaney, walk up 4
- Pond 4 12-0
- 1/2 in met 0
- 20 met 0

- 20 min
- 1 hour
- 1 hour
- 23" sodalite
- 1 hour
- 1 hour
- Treasure, etc.
- 44 Easter
<table>
<thead>
<tr>
<th>Time</th>
<th>Speed</th>
<th>Compass</th>
<th>Course</th>
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<tr>
<td>10:34:5</td>
<td>2 Ph.</td>
<td>19° 28'</td>
<td>3.41 Ph.</td>
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<tr>
<td>11:26</td>
<td>2 Ph.</td>
<td>3.41 Ph.</td>
<td>22 Dec.</td>
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<tr>
<td>0</td>
<td>70</td>
<td>148</td>
<td>17.9 @ 24</td>
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<tr>
<td>17</td>
<td>152</td>
<td>9.14 @ 15</td>
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</table>

Note: 24 hrs.

Bottleneck 38 °

Helen (1946) at Beaufort Bank 07 43
2 km w of Scouting
30 km w of

Otter tracks 2 1/2 miles

1 scuba Flipper
2 3600 moneys
1 P. tongue
2 Ballasts
263.95  Dec 25 14:12 PM  11:45 PM

Clear Air & Sunshine

No wind or rain, water for plants

29 in.

0  66.5  NW
186 183 11.3 @ 20  WS

Rotten mo 20 m  Curzon say yf  Cold

Your want

firm bond for

ideas
19297    Aug 28
Nantucket-SW
11 Arr-SE Lght
Smooth cloudly.
Scipar Dinf   69°   WSW

[Signature]

Water out 3-00p  July,
20 n.m.  0

[Signature]