

www.libtool.com.c

Left Gloucester 11 Am.

Sta 10399 Oct. 31st.

2.45 PM to 3.55 PM

42° 30' N 70° 21' W

Cloudy, 199, smooth - light NE

Depth 75 fathoms 137 meters.

Very lumpy bottom.

m.

W.S.

0

50

✓

30 1 R149 9.20 @.10

✓

60 2 R148 6.52 @.10

✓

90 3 R151 5.57 @.10

✓

120 4 R152 5.32 @.10

✓

20 net 0 split

1/2 meter net 0 25 min. swarm small copepods

1 meter net 60-0 1/2 hr Cal + yf

1 juv. 1 ♂ Purple finch (tired)
& siblings (fresh)

10400 Nov. 1st

5:30 AM. www.libtool.com.cn AM.

42° 58' N 70° 15' W.

Fog, calm, smooth.

78 fath = 142 m.

0		49.5		WS.
30	1	R 149	8.35 @ 10	WS
60	2	- 148	7.15 @ 10	WS
90	3	151	4.93 @ 10	WS
130	4	153	4.52 @ 10	WS.

Several smallish schools passed during the night

20 net 0 2.5 min. Rich red water

1/2 hr net 0 1/2 hr. Scanty copepods +

water net 90-0 1/2 hr. Fairly rich cal +
Some schizopods.

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$$\begin{array}{r} 102.4 \\ 34.1 \\ \hline 287.7 \end{array}$$

10401

Nov. 1st,~~11 AM~~ www.libtool.com.cn

2 P.M. to 3.15 P.M.

ESE light smooth cloudy
& rain.

120 fath = 219 meters

Position ?

0	51	WS
50	1	8.9.2 @ 10 WS
100	2	4.37 @ 10 WS
150	3	4.62 @ 10 WS
200	4	5.09 @ 10 WS

col raw + rockered.

20 net 0 1/2 l Red micro +
stenophora

1/2 m " " " Small pods stenophora

Bottom net 180 1/2 l ~~was stenophora~~
& ~~stenophora~~

Water net 9 1/2 20 liter (mostly col)

2 gal stenophora. ditto others, &
very few pods. 1 ft sample raised.

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10402

Nov. 2

~~Am. rain, light starlight~~Off ~~C~~ Manabegan.

4:00 AM. to 5:10 AM.

W by N. fresh cold clear slight chop.

79 fath = 144 meters

shoals, to 70 m.

Depth Manabegan at N. 9 miles. W.S.

0 47 ✓

30 25 1 8.86 @ 7.5 ✓

60 55 2 8.20 @ 7.5 ✓

90 25 3 6.60 @ 7.5 ✓

140 135 4 5.02 @ 7.5 ✓

Tide over 4:35 AM. up 5:05 AM.

Water net. 50-0 fair haul Col.
 & 4 f1/2 m " surface Col.
 & 4 f

20 net " Nothing but tobacco.

- No stenophores + practically,

no pincers.

Nov. 3rd Left Boothbay Har.
6.30 AM. www.libtool.com.cn Arrived Gloucester.
6.30 PM.

Nov. 4. Sat. At Gloucester

" 5 Sun. " " no work.
" 6 Mon. " " taking stores.
" 7 Tue. would have sailed,
but engineer failed to appear.

Nov. 8. Left Gloucester 6 AM.
Wind fresh N.S.W., cloudy.

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Sta 10403 : Nov. 8th

10 AM to 1040 AM

Place, probe SW, shuffing

off Permutation.

Depth 18 fath - 32 meters

0	48.5	105.
30	#1. 8.40 @ 9	W.S.

10.10 AM

Meter net	25 - 0	25 yard net, also dunt
1/2 " "	0	20 yard net (pencil)
20 net	0	20 yard net, fish eggs + 4-f.
	0	20 yard net, dunt

10404 4 no. 8th

1.45 P.M. 200 ft S.W.

Stiff S.W. choppy clear.

100 fath = 183 M.

		WS.
0	50.5	✓
50	1 8.09 @ 10.5	✓
100	2 4.98 @ 10.5	✓
175	3 4.87 @ 10.	✓

Meter net 150-0 1/2 hr

Very scanty Calanus

20 net 0 20 min

Rich red sponges + Pterasteria

1/2 m net 0 20 min

Scanty Pter. + Calanus

Nov. 9th 3 AM came to anchor
in Vineyard Haven, Strong
SW blow continuing all day
and most of the night.

Nov. 10th Wind veered to
NW with rain in early morning
& later moderated & backed
to W.

12.30 P.M. hoisted anchor
& proceeded for Cape May.

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Sta 10405 7 Nov 10th

6.15 pm to 7⁰⁰ pm.

Bright full moon

Clear. W. light slight chop.

20 fath = 36 meters

0 53.5 W.S. ↓

30 bot. / 12.48 @ 10.5 10

20 net @ 25 min

Rich green tubaria

1/2 net @ 25 min

Rich small pads + 1/2

Water net 1/2 net 25 min

Rich small pads + 1/2

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10406 Nov-11th

5.15 Am. to 6.15 Am.

clear, w. fresh choppy.

Bright moonlight to daylight

38 fath = 69 m.

0	53	WS.
30	3(151) 11.83 @ 11	WS
60	2(148) 10 @ 11	WS.

Boat #1 failed to lift. Boat #2
made the water with it.

nets 5-45 sec $\frac{1}{2}$ hr

20 net 0 Rich ocean urchins
+ young Echinoderms

$\frac{1}{2}$ hr net 0 shallow coastal
copepods + young Echinoderms
meter net 50-0

Small larval shells, small copepods
Echinoderms 4 $\frac{1}{2}$.

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10407 Uble 11
12 m to 1.15 PM
40°03' 71°43'

N.W. Stiff clear - high temp.

51 fath = 93 m.

			W.S.
0		52.3	✓
30	2	11.84 @ 10	✓
60	3	13.02 @ 10	✓
90	4	7.75 @ 10	✓

Birds, 1 juv + 1 fine silver,
1/2 hr all r

20 net 0 Rich red murex

1/2 m net 0 fair haul small
Copepods

Water net: 75-0 m

- Scanty larval stage Echinoids
+ small copepods. 1 Cladocera

10408 Nov. 11,
3 PM to 4:15 PM.

W. fresh choppy clear

100 fath = 183 meters,

$39^{\circ}52'$ $71^{\circ}47'$

0		52.5	10. S.
25	1	12.02 @ 10	"
50	2	13.95 @ 10	"
100	3	9.27 @ 10	"
180	4	10.25 @ 10	"

nets 3:30 PM

- 1/2^{hr} 20 net 0 Scanty red shrimp
" 1/2 hr net 0 Scanty small copepod
35^{min} meter net 75-0 Very scanty shrimp
+ Eurytemora
40 Bottom net 150-0 Very scanty, 1 *Diadema*

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104119 Nov. 12th Sunday.
7.25 AM to 8.15 AM

clear ~~out~~ smooth light to large

77 fath = 140 meters,
to 135

			W.S.
0		55	✓
30	1	13.18 @ 11	✓
60	2	13.33 @ 11	✓
90	3	9.10 @ 11	✓
125	4	10.29 @ 11	

20 net 0 1/2 hr fair haul red
shrimp (not looked somewhat)

1/2 m net 0 1/2 hr fair haul small
copepods, small nauplius & small Eurytemora

meter net 80-0 40 min small haul
small copepods small nauplius med. Eurytemora
abundant phytoplankton 1 dipterocarid

Shed net 10 min 50 min haul small
white copepods & small nauplius (1/2 star)

some collection

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10410 Nov 12th

12:30 P.M. 18 1.45 P.M.

Pty cloudy E fresh; clear water

42 fath = 76 meters

0		55.5		WS
25	2	13.65 @	13.5	WS
50	3	13.5 @	13	WS
75	4	11.22 @	13.5	WS

1.45

20 net surface 1/2 hr Rich brown mud

1/2 hr net " 1/2 hr sandy mud with
abundant
of crustaceans

Sled net, 25' inner Rich col. silt - soft
bed

1.25
Scallop dredge, 15' net
Sand scallop gopher & deep shells, Star 1 col

35 yds. 1 med scallop 1 med gopher, 1 med med

abundant pholadiform shells

Balance this & last 2/11

Sta 10411

Nov. 16 th

12.5⁵ P.M. to 1.30 P.M.

W. fresh choppy clear

9 fath = 16 meters

0	54°	WS
15	#4 #153 12.40 at 8	WS

~~12.55~~ 20 min

20 net ○ Thick brown mucus + coarse fods.

1/2 m net ○ Rich haul small fods

Bottom net - Rich haul sagittan

74 f.

Sta 10412 Nov. 16

SW light beam, smooth data

6.55 P.M. to 7.30 P.M.

19 fath = 34 meters

0

56

W.S.

✓

30 #4 = #153 | 13.65 @ 13
= 36.5

7.10 P.M. 20 min.

20 net 0

Rich brown mussels!

1/2 m net 0

Bottom net

38° 14'

74° 39'

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Sta 10413 Nov. 16-17

midnight ^{12:45} AM 1/2 moon.

W N W. Clear, light, smooth

31 fath = 56 meters.

W.S.

0 56

✓

25 #3. 13.5 @ 6

✓

50 #4. 13.5 2 @ 7

✓

12:20 AM.

20 net 20 min.

Rich dark green ^{algae}
& some sagittae

1/2 net 20 min

scanty fads etc rich sagittae

Bottom net 20 min

Rich Sagittae ^{some} ~~Centronota~~ →

copifads:

37° 44'
74° 35'

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10414 Nov. 17 ^{IE}

7.30 Am. to 8.15 Am.

clear, light W, smooth.

80 fath = 146 meters
Hoisting to 135

W.S.

0 55.5

✓

~~30~~ 25-1 13.30 @ 7

✓

~~60~~ 55-2 13.01 @ 7

✓

~~90~~ 85-3 9.30 @ 7

~~140~~ 135-4 9.44 @ 7

8.45 to

20 net 0 20 min 37° 14'
Rich red Micro 74° 31' 30"

1/2 m net 0

Scanty small pods
+ Sagittae

Bottom net 300 m line

folded. Bottom
Scanty Sagittae

~~Water and Siphon~~

146 m. to overboard
Otter trawl

25 min
3 " on bottom

3 pieces 4 min each

10415

Nov. 17thwww.libtool.com.cn

10.40 AM. to 12 m.

WSW light smooth clear.

50 fath = 90 meters

US.

0 55.

30 2 13.32 @ 10

60 3 13.30 @ 10

90 4 11.88 @ 11

37° 12' 30"
140 42'

10.55 AM

20 net 0 20 min
Rich haul reddish brown1/2 m net 0 20 min
Scanty small sea + copepodsBottom net 25 min
fair haul Echinaster, sea + copepods

After trawl. On bottom 10 min -
 2 ♀ *Molybdia tenuis* 73 cm, 3 1/4 kg
 sponge
 mud tray 74 3 1/2 kg

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10416

Nov. 17thwww.libtool.com.cn

2.10 P.M. 3.20 P.M.

Clear, fresh S.W. slight chop.
23 fath = 41 meters.

0	56.8		WS.
20	#3	13.08 @ 10	WP
40	#4	14.12 @ 10	WS

2.30 P.M.

37° 06' 30"
75° 00' 20"

20 net 6 20 min
Very rich dark green micro

1/2 m net 6 20 min
Poor small red pods
+ 4.4.

Bottom net 48-0 20 min
Fair haul Euthemista + Sagittaria

Otter trawl, 10 min on bot
2 live scallops. Several large
dead shells - traps / maurshin.
+ 2 mactra shells' few stars
1 arc-rod

10417

Nov. 17

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8.45 P.M., 9 10 P.M.

SW. fresh slight chop clear

Surface 57.5

W.S.

20 net 0) 20 min

Brown micro small pods.

1/2 net 0

Rich small pods.

36° 59' 30"
75° 41' 30"

10418

Nov 22

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11:15 AM to 11:45

calm sea surface
9 fms 16 1/2 m

Surface 54.5 WWS

20 net 0 11:25 to 11:45
some
scout net

1/2 mile net 0 20 m
Scout plankton some
larval fishes

Other Trawl Bottom 20 m
water haul

36 = 50' 20"

25 = 49' 30"

10419

Nov 22

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4:30 PM to 5:00

swirl air sea smooth
1 1/2 fms 20 meters

Surface 56° W.S.

36° 23' 30"
75° 39'

#20 net 0 433-452
20 min
Brown murex & small pools

1/2 m net 0 20 min
Brown pools

Otter trawl Bottom 20 min

1 live clam, 2 dead 1 coarct
1 *Paralichthys dentatus* 2 *Stomatopoda* 1 *Alpheidae*
1 *Rhopilema maenulata*

10470 - Nov 23

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3:57 AM to 4:30

14 fms 25 meters

Small light large water

Surface 57.2° WS

35° 38'

73° 18'

1500 net 0 700 814 101

Small water + fish

1/2 m

→ 100

Small water fish

Little hand bottom son 1000

1 King crab many star fish

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all work worth keeping for review.

For use in the

National Notebook

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

SUBJECT OF STUDY:

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10421

Nov 23

6:10 AM 1.15 AM

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Overcast Sea smooth E breeze
18 fms 32 meters

35° 26'

75° 08'

Surface 58

WS ✓

30 meter #4 15.50 @ 11

WS ✓

#20 net 20 min 6:23

20 min net 6:23

1/2 meter net 20 min 6:23

Small floats

Bottom net 20 min 6:25-45

Fouled.

Beam trawl bottom 20 min 6:55-7:15

2 star fish

10/22 Nov 23

Count from bridge
Sum of supply
\$45 to 7/100

30 feet 55-20

Surface	60.5	Cost	"
25 # 2	15.72 @ 12	"	"
50 # 2	15.87 @ 12	"	"

Low height to next
station,

55' 20"

74' 58"

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Two night to sleep - into
Aria to under riding and
forward - lot.

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10428

1 Dec 4

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Alone + 1 person 200 yards

2:23 PM to 3:11 PM

13 fms 200 yds

Surface 69 °

WS ✓

Pro net 20 min

Micro light brown

1/2 meter net 20 min

Video course

53° 50' 30"
79° 50' 30"

Shot net 20 min

Full of mixed

collected 20 min

1 small crab

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10429

10m H

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From 6:07 PM to 6:42

light South by West 1000m

29 from 53 meter

0 74.5 W5 ✓

2515m | Rise | # 3 | 24.40° @ 21 W5 ✓

5040 | Rise | 4 | 24.38° @ 20 W5 ✓

20 sub L 20 min 6:22 2:00

Scanty macro.

1/2 water net 0 20 min

130 07. 30"
170 39 30"

Other travel bottom 20 min

1 small fish

Ageloph. ... ?

#

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10430 Dec 4

10 PM to 10:30

Showers stiff breeze

Sea calm.

136 fms 249 meters

0 72

W.S.V

50 m 1 23.01 @ 21

W.S.V

100 m 2 17.28 @ 21

W.S.V

175 m 3 12.54 @ 21

W.S.V

250 m 4 11.82 @ 21

W.S.V

~~#20 net 20 min~~

~~1/2 meter net 20 min~~

32° 48' N
170° 26' W

~~Otter trawl 20 min~~

Squall kicked up too

much sea to finish stations

~~Bottom net 20 min~~

Sta 10435. Jan. 4 1917

Off Charlotte Harbor Fla. C.

6 1/2 fathoms = meters.

1.45 P.M.

Surface temp 52.5

Clam dredge. Rough, hard
bottom, down 2 min. haul
to haul up.

Proceeded on course to
Bourneville Fla.

Sta 10435 Jan 10th 1917

11. A.M. www.libtool.com.cn

Surface temp 60 W.S.

High W.W. Wind

Air temp 46

off jetties at Fernandina, Fla,
on sleeping grounds

No nets

Sta 10437 Jan 17th

2 PM ^{www.libtool.com.cn} 3.45
miles bearing $212^{\circ} W$ from Sand Key

70 fath = 128 meters (shoaling)

East fresh clear smooth

Air 73°

0 74° WS

25 149 23.14 @ 22 WS

50 148 23.10 @ 22 WS

75 151 22.60 @ 22 WS

100 152 15.11 @ 22 WS

2-40 PM 20 min

meter net 0-0 many 4/4 fair haul gen.

1/2 net " 0 fair haul gen.

20 net 0 fair " "

Otter trawl 15 min

5 crabs 5 small sea spiders

1 fish a few shells

Crustacean
18 cm
P. b. b.
yellow
stiff
Tail dorsal
with black
+ red line
legs yellow
T. 10739

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10455 from 17th 11 points
12 43 20 www.libtool.com.cn

Factorial of 10 = 3,628,800

E $\frac{10!}{2^5}$ = 113,280

10⁵ = 100,000

0 72.5 1000

10.20 244 = 1/10

Master set = 20-0 Pick line of 10

1/2 set 0 Pick =

20 set 0 Pick line of 10

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Sta 10439

Jan 20 2:15 PM 3:50 PM
Clear, smooth NE, light.

20 miles N from NW Chan buoy
Very West. Air temp. 75°

10.5 fath - 19 meters
Smooth bottom WS.

0 71.5 ✓

15m, # 153, 21.8% @ 21 ✓

Bottom sample, white sand + shells.

2:45 PM 1/2 hr.

20 net 0 Rich micro

1/2 m net 0 *Strophos, vegetar* + of
fine brack.

meter net 12-0 *Sag, strophos* pods
+ of.

Other haul 10' min. Very slow.

1 flat-fish 1 *Platophus*, | a few hermits
10742 10741 | + stars
| + sponge

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10440 Sunday

Leave 21st - 2.15 AM - 3.15 AM

✓ Sawbird light NNE 10 knots

NE Sea dark light smooth

11 fath = 20 m

Bottom sample near (too hard)

0 68 W.S.

18 #153 20.01 @ 20

2.45 AM

20 net 0 fair land surface

1/2 net 0 Pink land surface
fish surface

water net 15-0, light land surface
claylike deposit.

Jan 22 6 AM Back inside coast
of 0th, SE wind

Surf temp 68° W.S.

Sta 10441 Jan. 24th
4:00 P.M. to 4:45 P.M.

5 miles W from Tampa NW Cham. Bay

7 fath = 12.8 meters

S.W. light, smooth clear.

Bottom sample ^{air 72°} sand, shells (lost) w.s.
brann.

0 68 w.s.

= 153.19.72 @ 21 w.s.

4 co. spec.

20 net 0 20 min fair haul
shells

1/2 m net 0 20 min
Rich starfishes + jellies

water net 20 min
Rich Mf + starfishes
+ jellies

Otter trawl.
on small piece sponge

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10442 Jan 24th 10 PM
S: Smooth, clear, light, dark
11.05 PM
www.libtool.com.cn

22 fath = 40 meters
bottom sample (did not work (hard)
water very brilliant

0	68.5	WS
20	# 153	19.59 @ 21 WS
98	# 153	19.43 @ 21 WS

note 10.35 PM
yellow or transparent
1/2 hr

Water net 30-0
Rich haul of, pods etc, 1 egg
1 large shrimp

1/2 in net 0
Rich haul of, pods + shells
Hatched =

20 net 0 very scanty mixed

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10443 Jan 25 HAM -

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surface light W. clear, (light)

Bottom sample: mud - in sample

Depth 29 fath - 53 m
(mud from bottom of core) WS.

0 69.5 WS

25 ± 151 21.18 @ 21 WS

50 ± 153 20.70 @ 21 WS.

much gulf weed
4.55 AM.

20 net 0 Scanty micro

1/2 m net 0 fair haul gulf-weed stuff

1/4 m net 45-0 fair haul up
+ pods.

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1044 $\frac{1}{2}$ June 25, 12:30 PM.

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W. or. choppy. cloudy (after squalls)

105 fath. = 189 m.

green sand & ~~very~~ ^{good} sample

0 70.5 WS

25 144 21.82 @ 19 WS

50 108 21.80 @ 19 WS

100 151 19.35 @ 19 WS

175 153 14.14 @ 19 WS

Much gulf wind.

2.6 12.50 P.M.

20 net 0 Scanty murex

$\frac{1}{2}$ m net 0 Small hard pods etc

meter net 170-0 fair haul

Sp. f. pods & general

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10445 Jan 25 6:30 PM -
8:30 PM

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n.w. clear fresh choppy.

Off soundings (2000 fath. or bottom)

0 70.5 W.S.

100 # 149 21.75 @ 17 W.S.

150 # 148 18.49 @ 17 W.S.

250 # 151 (20.90) @ 17 W.S.

350 # 153 11.58 @ 17 W.S.

(getting too choppy to report 250)

~~20 net 0 1/2 hr~~
Scattered microw.

1/2 hr net 0 1/2 hr Rich haul gen.
plankton - 1 large Leptocephalus

meter net 300-0 40 min

Rich haul general pl. plankton
1 large Leptocephalus, several other pteropods,
1 insect larva

10446 www.libtool.com.cn 12:50 AM

Clear, dark ~~blue~~ smooth light

to path - 10:900 - water

CS Black E 1/2 E 5 miles

Black 1/2 and solid no sample

0 63 RS,

10. #153 17.77 @ 17.5 RS,

1/2 -

Water list P 10 m; Peak gas fluctuation

4-4000 young, fish.

20 set @ Peak water

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Sta 20000 Jan 10, 17
 12 miles to 2.30 AM
 300 light sound wave
 100 feet = 228 m.
 29° 38' 87° 00'

0	66	60
50	149 19.44 @ 20	WS
100	148 18.50 @ 20	WS
150	137 13.33 @ 20	WS
200	105 10.22 @ 20	WS

- 19.44 @ 20
- 18.50 @ 20
- 13.33 @ 20
- 10.22 @ 20

nets 1/2 by Rich, part of 2 nets
 40mm Rich of part
 200-0

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128

3
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31

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10448 Jan 30 ~~1961~~

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7 Am to 8:45 Am
fath = meters

W. fresh smooth cloudy
Soft mud no sample

T2 fath = 131 meters
29° 53' 87° 07'

0	6%	W.S.	
25	20.04 @ 20	✓	✓
50	19.02 @ 20	✓	✓
100	18.10 @ 20	✓	✓
130	15.87 @ 20	✓	✓

25	20.13 @ 19	} Best shot
50	19.65 @ 19	
100	18.24 @ 19	
150	15.77 @ 19	

over

2000

www.libtool.com.cn

2000年12月28日

2000年12月28日

2000年12月28日

2000年12月28日

2000年12月28日

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15/1/47

20 20 1000 1000 1000

20 20 1000 1000 1000

20 20 1000 1000 1000

30° 05' 27° 12'

0	15	4.34
20	# 103	18.11 10 11 ✓ 4
30	# 107	18.58 10 11 ✓ 4

cut 10-20

cut 10-20 1000 1000 1000
cut 10-20 1000 1000 1000
cut 10-20 1000 1000 1000
cut 10-20 1000 1000 1000

10450 www.libtool.com.cn

2 PM to 2:45 PM

Power on! No light from
SW from - smooth class.

Two auto

fall - 11 meters

0 62 102 ✓

104 153 101/102 17

104 151 104 42

10451 Feb. 6 4 PM
E Light Snow
Pensacola Bay.

5 fath = 9 m.

Air 32°

Surface 45 ✓

9 m. #103 12.42 @ 8 ✓

Taken to find conditions in bay
after a week of freezing weather

(Left Pensacola 8:30 AM)

Passed out 10 AM

(Broke gaff bolt.)

10452 Feb. 7th 6.30 AM.

(a) off Michikongue mud

E. Stiff Choppy - sky cloudy.

9-9 1/2 fathoms = meters.

Surface temp. 55-56

Shrimp trawl:

6.45 - 7.15 Hard to tow
evenly. Short hauls

1/2 bush fish no shrimp

7.40 further in - 40 min.

1 bushel large fine shrimp

1 3/4 " small fish,

8.50 AM. 15 min

3/4 bush shrimp 1/4 bush fish

75 shrimp = 1580 gr. } filled 1
75 " = 1555 " } paper bucket
75 " = 1530 " }
75 " = 1520 "

10453

Feb. 9th.

10.05 AM

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1 mile S from Slip Id bar outer buoy
W. light clear smooth

Surface temp. 52. W.S.
4 1/2 to 3 1/2 fath.

2 1st haul shrimp net 15 ft wide, 1/2 hr
a few small anchovies

20 net a 1/2 hr net wire, brown

1/2 m net a 1/2 hr net

Small pods + few spiny fish

Barren mud bottom

1045-02 Feb. 9

N.W. Liquid in water down

12:50 P.M. $\frac{1}{2}$ hr.

$3\frac{1}{2}$ fath

Chandler St NE

Surf temp 54 WS

10 shrimp,

3 trunk-fishes (21, 18 + 17 cm)

2 sting rays TT 10752 + 3

1 cutlass fish

6 pin fish

6 trout

1 robin

2 small flounders

a few anchovies + squid

5 spot 17 to 14 cm.

28 crabs 21 to 12 cm

1 qt jar

10455 Feb 9th 1917

www.libtool.com.cn
P.M.

Chandler St.

6 fath^{13 1/2} Surf 54

2.15 P.M.

Bottom trawl

10 am. #151

12.48 @ 11

WS

Shrimp net 2.30 1/2 hr.

1 trunk fish

1 small croaker

2 small spade-fish TT 10754

1 " flounder

2 " flounder 1 anchovy.

1 " hog-choker

3 shrimp

a few squid

1 small mackerel TT 10751

1045-6 www.libtool.com.cn Feb 7th 1917

4.25 Pm. 1 hour.

5 fathoms ^{usual} calm sea with clear
surf length 54

(to tank bearing N W W) 4 1/2 fathoms
(beached basket weighs 4 kilos)

2 bushels shrimp

27 kilos Tax 8 kilos

$\frac{37}{64}$ " less tax = 56 Kilos.

Haul very clean.

10457¹³ Feb. 10th

8 AM 5 fath, mud, + sand

wind E, fresh clear
small chop.

Surf temp 52.5

^{1st haul}

Shrimp net 8 AM

1/2 hour

2nd haul further E + further in

8.45 AM. 45 min.

1st haul 4 shrimp (all soft)

1 ~~member~~

2 Echinus

4 small trout

1 small croaker

1 star cat

1 ~~redfish~~

many anchovies

1 cutlass

a few squid

1 of ~~fish~~

2nd haul -

29 crabs

1 sea cat

1 mentina

5 small spot

1 croaker

1 small trout

1 etopene

1 cutlass

1 anchovy

3 of 4 squid

See net & length of
crabs

Sta 1005-8 Feb. 10th

11-15 AM
www.libtool.com.cn

Bright & Shiny Lob - several
3 1/2 feet

1st haul 15 ft 1/2 hour

5 basket shrimp clean haul

4 Bonnet-Head shark 3% and

4 trunk-fish

1 Sting ray, same as before

ca Chelomyxus

2 Spot

1 Menticulius

17 small trout

2 catfish

1 butter fish

2 squid

1 Steller

2nd haul 12:40 PM

3¹/₄ fath. haul.

35 min.

10 basket (7 baskets)

Shrimp — practically
no fish & nothing else.

Feb. 12th 4⁰⁰ PM,
Miss. Sound at
Pt. Beacon outside Gulfport,

Surface temp 50.5°

Air 60°

WS.

www.libtool.com.cn

Sta 1045-9 www.libtool.com.cn Feb 12

11.15 PM to Am.

1/2 E. stuff, choppy clear.

11 facts = 20 m. Sand:

0 59 # WS

20 #157 14.58 @ 10 WS,

11.35 PM. - 12.05 AM.

20 net 0 net lost

1/2 m net 0 Rich haul of ~~fish~~
foods + leptocarpus

Sled net 20-0.

Rich haul 1/2 f. Sagittaria foods
& leptocarpus

3 AM Struck the muddy water
off the Miss again, temp dropped
from 64 to 50 on surface

Sta 10460 www.libtool.com.cn Feb 13, 17
4:45 Am to 6:05 Am

NE light smooth clear

70 fath - 128 mi.

Port Eads bearing N of W.

5 Am.

0	50	WS
25	#149	19.10 @ 12 ✓
50	148	19.95 @ 12 ✓
100	151	17.93 @ 12 ✓
125	153	17.08 @ 12 ✓

nets 5-25 Am

20 net 0 30 min
Rich micro yf + leptocyclali

1/2m net 0 30 min
Rich yf pods + leptocyclali
inc. Sapphirina

meter net 80-0 40 min
Rich pods + yf inc. macrocysts
+ Stenophylax

Q. 10. How off ...
comparatively clear ...
along with ...
year 1879

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Sta 10461 Feb 13 AM 9:15 AM to 11 AM

E. light smooth clear
water yellow + muddy.

36 fath = 75 meters

SW pass ^{light ship} bearing NE + about 3 miles

0	46		WS
25	149	16.58 @ 13	WS
50	148	19.57 @ 13	WS
75	151	failed for 1 st time	WS
75	153	18.18 @ 16	
20 net	0	15 min	

1/2 net 0 20 min

meter net 50-0 20 min

Risk general + leptocephalii

Spring 10:30 AM

15 min

barren mud

1 stellifer

2 small clams

10462 Feb 13, 2.15 Pm

E light smooth clear.

9 fath = 16 m mud
9 miles SE from Barataria St.

0 59.0⁻ WS

15⁻ m. # 153 16.42 @ 16 WS

Pelicans busy fishing.

Net 2.25 Pm.

20 net 0 20 min Diatom
sof.

1/2 m net 0 20 min Diatoms
& scanty of

Bottom net 16-0 20 min
Diatoms
& scanty of

Shrimp trawl 2.55 Pm 15 min slow
3 bushels large prawns 1 bucket fish

Shrimps

50 weighed	1570	gr.
51	1500	✓
50	1650	"
50	1610	"

Exact + fair weights

fish -	Partly kits	7/4 7.20
Trout	103 weighed	Kilos 5.50
Croaker	2	
Spot	1	Small flounder 11
Balfish	1	(Kitt)
Lizards	2	
Robins	4	
Bairdilla	1	
Stellifer	7	
Cottars	29	
Mon fish	2	
Spadefish	1	
Cats	14	

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Position 4 miles SE from
Barataria Lt.

2nd haul, 4 P.M.

4 1/2 fath 20 min -

4 or 5 prawns

2/3 bucket fish.

38 *Menticirrhus* weigh 275 Kg.

4 small trout 42 *Stellifer*

4 *Baludicula*

4 cutters

1 puffer

5 cats

2 *Arctiflysis*

22 small flounders

6 squid

1 sting-ray.

2nd haul 5.30 PM
Fyke used
SW 5 miles from 2nd haul
15 min

10 shrimp
4 crabs

24 Cuttlefish

9 small fish

3 " Bairdella

3 Stellifer

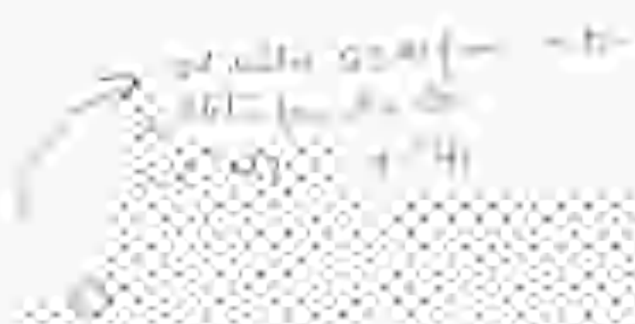
1 Hoq-chin (kept)

6 squid "

11 Anchovies "

Position
5 to 6 miles S by W
from Bonataran Is.

www.libtool.com.cn



100'

Sta 10463 Feb 16, '17.

8 Am 9m 10 10 Am.

S. light, slight chop.

12 fath. ^{blue} mud, soft stiff

Plenty schools ^{sample} fish.

Tried purse-sein on a school of prob. mackerel.
~~small~~ fish - too light & small - fish went down.

12 fath. = 22 m.

0 62° 45

20 m. # 153 17.10 @ 15 WS

8.45-9 tried to fish shrimp haul in mid-water

9.05 Am. Shrimp haul on bottom + 15 min Bawn, 5 robins + 6 squid, Squall.

20 net 0 9.40 Am. 10 Am; Swarm of diatoms.

1/2 m net 0 Swarm young fish

Sled net 22 m to 0 Good haul young fish + general

Jan 4, 1917 www.libtool.com.cn left Wilmington
8.20 Am + proceeded down
river:

11.45 Am passed bell-buoy
off Cape Fear R. entrance

Jan 18th Dayfort.
An. Daylight.

Trolled Baracuta Park-rind:

~~119 am 9 1/2~~

~~100 " 4.5 "~~

~~85 " 2.75 "~~

~~77 " 2 "~~

~~79 " 2.25 "~~

~~78 " 4.5 "~~

~~102 " 5.5 "~~