

GANNET

ORIGINAL LOG BOOK OF THE "GANNET"

UNITED STATES FISH COMMISSION

STATION NUMBERS

(A) Numbers G 50 to G 69



Thermometers

Negretta Zambra in frame

L = Left = 63916

R = Right = 63921

3 Hydrometers

01-10, 10-20, & 20-30

♀ Signs of female
♂ " of male

Write to Dr. Bigelow once a month
and go to Cambridge if need to.
address Dr. H. B. Bigelow Agassiz Museum, Cambria

Investigations

Care of by

Capt. George Greenleaf
in Gulf of Maine

Objects of Investigation

1. Productivity of different spawning grounds.
2. Relation of eggs to low densities.
3. Movements of pelagic fry and reactions to conditions of spring freshness. Rate of incubation.
4. Comparison of food in East and West (maine/Bay) regions, & in areas of low density.

Methods.

A. Object 1 to be determined by 20 min. hauls over various spawning grounds throughout season.

B. Objects 2, 3, and 4 to be determined by temperature, density, and plankton collections at various levels over the areas during the season of outbreak from the land.

Sample

Station No.

9.50

Date: Dec 18 1914

Hour: 11.00 A.M. to 11.15 A.M.

Position: Lat.

Long.

Locality: Boothbay Harbor.

Depth: 16 m

Bottom:

Sample:

Wind: Direction, NE Force,

Sea: Smooth

Sky: Cloudy

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0m | L | 41 | — | | | | |
| 0m | R | 40.5 | — | | | | |
| 15m | L | 42 | | | | | |
| 15m | R | 42 | | | | | |

Density0m—
15m—

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Many Otolithes fairly numerous
mostly small. *Solenopsis* flat,
many in *Plumaria* stage but with
pink tentacle bases

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|----------------------|--------|------|----|-------|
| | | Down | Up | |
| 0m T1 (1/2 meter ab) | 20 min | | | |
| 15m T2 (1/2 m) | 20 min | | | |

(250
T1)

11-5314

NOTES

10 cod examined ranging
from 10 — 40 lbs.
20 ♂ not ripe
20 ♀ " "
40 ♀ ripe
15 ♂ ripe
5 spent fish

11-5314

Air Temp. 20° above

Station No. G. 50

Date: Dec 29 1924

Hour: 1:30 P. M. to 2 P. M.

Position: Lat. 2 miles SW, Long. N. E. Cocklebed Beach

Locality: Sheepfoot Bay.

Depth: 60 meters Bottom: Rocky Sample:

Wind: Direction, SW Force, 10 miles

Sea: Rough Sky: overcast

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|--------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0 m. L | | 39 | | | | | |
| " R | | 40 | | | | | |
| 60. L | | 38.50 | | | | | |
| 60. R | | 39.50 | | | | | |

Density

0 m. 10.26
60. 10.26

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| A | | | | | | |
| B | | | | | | |

Color of water:

Transparency:

REMARKS:

Tremphons quite plentiful
all very small.

11-5314

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|--|-------|------|----|-------|
| | | Down | Up | |
| No nets used to day. Weather too rough. Would tear nets up. | | | | |

11-5314

NOTES

Dec 30. Boothbay Harbor.
 0 m. L 37 - 5 = 36.5
 0 m. R. 35.50 2 35.3
 12 m. L 37 - 2 = 36.8
 12 m. R. 40 - 5 = 39.5

Density
Dec 30.

0 m. 25 1/2
12 m. 26.
12 m.

air. 33° above

(corr. temp at surface 3°) + 34.40

Dec 31st 1924. Squirrel Island.
 0 m. L 39
 " " R. 38.5
 15 " L 40°
 15 " R 39.

Density -
0 m. 10.26
30 " 10.26.1

air 24° above.

corr. Temp. ^{C 2.5 below} = ~~36.0~~ To 34°

To rough for net to day.

Air temp 29 F

Station No.

S 51

Date:

Jan 6

1915

Hour: 1:30 P. M. to

1:50 P. M.

Position: Lat.

Station 2. Long.

McNolds Bell

bearing E. by S. Hendricks Head lights

Locality: N. by E.

Depth: 30 mts Bottom: Mud

Sample:

Wind: Direction, ENE. Force, 15 miles

Sea: Rough Sky: overcast

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0.9 m | L | 35 1/2 | | | | | |
| " " | R | 36 | | | | | |
| 30 " | L | 40 | | | | | |
| 30 " | R | 40 1/2 | | | | | |

Density

| | |
|------|--------|
| 07 m | 102.6 |
| 30 " | 102.64 |

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Telephones plenty ful.

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|-----------------------------|------------|------|----|-------|
| | | Down | Up | |
| 0, M. T. 1 1/2 Meters net 8 | 20 minutes | | | |
| 30 " T 2 1 ft net 8 | " " | | | |
| G. 51. | | | | |

11-5314

NOTES

No fishing boats out consequently could get no fish to examine to day.

The weather is too rough for either netters, or trawlers to day.

There seemed to be quantities of the material that we have saved in our bottles amortized.
T. 1 and T. 2. S. 51.

Air. 20

Station No.

G. 52

Date: Jan 14 1915

Hour: 10 a. M. to 10 20 M.

Position: Lat. Station (2) Long. Buckfield Bay
E. of S. Head light N. by E
Locality: Sheepscot Bay

Depth: 30 m. Bottom: Soft Sample:

Wind: Direction, N.N.W. Force, light

Sea: Old sea on Sky: Clear

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|----------------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0 M. | R. 37 | 37 | | | | | |
| " | L 37 | 37 | | | | | |
| 30 " | R 39 | 39 | | | | | |
| 30 " | L 39 | 39 | | | | | |
| <u>density</u> | | | | | | | |
| 0 M. | 11256 | | | | | | |
| 30 " | 1026 | | | | | | |

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Very few tenebres.
Got pieces of some kind from surface
net. Also at different kind of stuff in
30 meters down net.

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|--------------------------|-------|------|----|------------|
| | | Down | Up | |
| 0 M. T 1. 1/2 Meters net | | | | 20 minutes |
| 20 " T 2. 1 foot mesh " | | | | " " |

11-5314

NOTES

We seem to get a different
kind of material in both the
surface and 20 meters down
today. Only one tenebra
in surface net. And it is a
beauty.

No fishing boats out to
day in this locality. So
captain look over any fish.

11-5314

S. G. 53

Station No.

(2)

Date:

Air 6

Jan 19

19125

Hour: 11-15 A.M. to

M.

Position: Lat. 42° Long.

Locality: Shipp's Bay
Arnold's Bell & by S. Hendricks
Head light N. by E.

Depth: 40 meters Bottom: soft Sample:

Wind: Direction, North Force, light

Sea: Smooth Sky: clear

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0 M | R | 37 | | | | | |
| " " | L | 37 | | | | | |
| 40 " | R | 37 1/2 | | | | | |
| " " | L | 38 | | | | | |

Density

0 M. 1026

40 " 10262

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |

Color of water:

Transparency:

REMARKS: No telephone this tow

very small and planktos on surface
but plenty 30 mts deep

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|---|-------|------|----|-------|
| | | Down | Up | |
| O. M. T. 1 1/2 meter net | | | | |
| 30 " T 2. 1 ft net | | | | |
| 20 Minnet tow north from station two | | | | |

G. 53

11-5314

NOTES

Ran off to Pumpkin Island,
fishing ground. Fished here
one boat did not get any fish
from here to White Island.
Grounds nothing here. No fish
boats out to day for acc't of
the easterly cold weather
only 6 degrees above zero now.
Eight boats from North.

11-5314

Station No.

S 54

Date:

Jan 31

1965-

Hour: 9-30 A.M. to 10 A.M. M.

Position: Lat. Station(2) Long.

Sheepscot Bay
Locality: Cuttack Bell E by S. Hamblin's

Head light N by E

Depth: 30 mts Bottom: Soft Sample:

Wind: Direction, NW Force, Strong

Temp air 28

Sea: Choppy Sky: Clear

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|----------------|------------------------------|-------------------------|---------------|-----------------|--------------------|-----------|----------------|
| 0m. | 8+13 R | 35 | | | | | |
| 0m | L | 35 | | | | | |
| 30 " | R | 35 | | | | | |
| 30 " | L | 35 | | | | | |
| Anterior | | 1½ below gen. (surface) | | | | | |
| <u>Density</u> | | | | | | | |
| 0m. | 10264 | | | | | | |
| 30 " | 10268 | | | | | | |

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |

Color of water:

Transparency:

REMARKS:

No telephone we observed to day
too.

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|--------------------|-------|------|----|-------|
| | | Down | Up | |
| OM T-1-½ Meter one | | | | |
| 30 " T-2 1 foot " | | | | |

11-5314

NOTES

Wind is heavy from NW cold
and too rough for any fishing boats
to get out to day.
This is the first day this week that
we could get a chance to tow our
nets on account of stormy and rough
weather S. 54.

11-5314

Station No.

A. 55

Date:

Feb 4

1912-5-

Hour: 9:30 A. M. to 10 A. M.

Position: Lat. Station (2) Long. Sheepshead Bay
Cuckolds Rock Ex S. Thousand Islands

Locality: Light House N by E

Depth: 0 m Bottom: soft Sample:

Wind: Direction, N.E. Force, strong

Sea: Choppy Sky: cloudy overcast

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|------------|---------------|-----------------|--------------------|-----------|----------------|
| 0 m | R | 33 | | | | | |
| 1 m | L | 33.20 | | | | | |
| 30 m | R | 33.5 | | | | | |
| 30 m | L | 33.5 | | | | | |
| | | average 33 | | | | | |

Density

0 m 1.0262

30 m 1.0263

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Fish egg of some kind was
brought to day from bottom or
30 meters deep.

11-5314

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|----------------------------|-------|------|----|-------|
| | | Down | Up | |
| 0. Net T. 1-1/2 Meters net | | | | |
| 30 " T. 2-1/2 " | | | | |

11-5314

NOTES

Wind is strong from N.E. and snowing, very choppy sea
 Temperature air 16 above zero.
 No chance to see any fish
 to day. No fishing boat out
 here. Fish egg was noticed
 to day in our trawl.

Station No. S. 56

Date: Feb 9

1915-

Hour: 1230 P.M. to 1 P.M.

Position: Lat. Station 2 Long. Shippacot Bay
Burrells Bell 6 $\frac{1}{2}$ S. Hendricks HeadLocality: light N. by E
air Temp 34°

Depth: 30 meters Bottom: Hard

Sample:

Wind: Direction, North Force, light

Sea: Smooth Sky: Clear

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0 M | R | 33 | | | | | |
| " " | L | 32.80 | | | | | |
| 30. | R | 32 | | | | | |
| " " | L | 32 | | | | | |

Centigrade &
Density

0 M. 10262
30. 10262

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Abundance of red sand from 1 ft. msl
down to 30 mts.
Cod and other fish eggs from 1/2 mts. out.

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|--------------------------|-------|------|----|-------|
| | | Down | Up | |
| 0. Meter T 1-1/2 mts msl | | | | |
| 30 " T 2-1/2 " | | | | |

11-5314

NOTES

Wind very light from N
Warmer and fine to day.
We got quite a lot of fish eggs to
day & sell them out egg.
air Temperature, 34° air water
33° with density top and bottom
10262.

Station No.

G. 57

Date:

Feb. 16

1925

Hour: 10 A.M. to 10:30 P.M.

Position: Lat. ~~Section 2~~ Long. Shesquash Bay
across Bell & S. Hendricks Head
Locality: Light Flaring N. by E

Depth: 30 meters Bottom: soft Sample:

Wind: Direction, N. Force, Very light

Sea: Old season Sky: cloudy.

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0 M | R | 34 | | | | | |
| 30 " | L | 34 | | | | | |
| 30 " | R | 33 | | | | | |
| 30 " | L | 33 | | | | | |
| 1 M | | 1025.4 | | | | | |
| 30 " | | 1026.6 | | | | | |

Density

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |

Color of water:

Transparency:

REMARKS:

abundance of telephones. Red sea
cod eggs, and several kinds of larval fishes
were obtained from this haul.

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|--------------------------|-------|------|----|-------|
| | | Down | Up | |
| 0 Mtr. T-1-1/2 meter net | | | | |
| 20 " T-2-1/2 mtr net | | | | |

11-5314

NOTES

Wind very light, no sea or air temp. 32°
 Larval fish of some kind was taken
 from both of the above tows, also
 cod eggs.
 Fishes in this Bay are getting
 very few fish and those are
 small cod and cusk, none was
 found ripe to day. about 50 fish was
 looked over ranging from 3 to 6 lbs ea,

Started our cod net Feb 20.
 Net was set between Harding
 ledge buoy and upper Malib Island
 on sandy bottom. Shesquash River.
 We caught five cod ranging in
 weight from 14 to 40 pounds
 each. Looked them over carefully
 one fish would be ripe in about three
 weeks, all the others were hard
 bellied. Stomachs of all contained
 flounders, and sculpin.

11-5314

S^t Station No.

G58

Date: Feb 25 1915

H Hour: 10 A.M. to 10 P.M.

P Position: Lat. Station (2) Long. Shubscott Bay
Cuckolds Bill bearing E. by S
L Locality: Hendricks Head light N by E

D Depth: 30 meters Bottom: soft Sample:

W Wind: Direction, N.E., Force, fresh

S Sea: Rough Sky: overcast.

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0m | R | 35 | | | | | |
| " " | L | 35 | | | | | |
| 30 " | R | 34 | | | | | |
| " " | L | 34 | | | | | |

Density

0m 1025.8
30m 1026.

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Plenty abundance of cod eggs
taken from surface, also cod eggs
mixed with sand.

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|---------------|---------------|------|----|-------|
| | | Down | Up | |
| 0. Meter T-1 | 1/2 Meter and | | | |
| 20 Meters T-2 | -1 ft | | | |

11-5314

NOTES

Wind fresh from N.E. and
choppy in bay. Air Temp 30° F.
We got the greatest lot of surface
material on this trip than we
have taken this winter.

No fishing boats out to day.
We set our cod lines again to
day between Hardings ledge
and Inner Marsh Island.

Station 5 on chart.

St. Station No.

59

Date: Mar 10

1915

NETS, ETC., USED

H. Hour: 3-30 P.M. to 3-50 P.M.

P. Position: Lat. 1 mile North Long. 7° Southwest
end of Boston Island.
Locality: Sheepscot River

D. Depth: 20 m. Bottom: hard Sample:

W. Wind: Direction, SSW. Force, heavy

S. Sea: Rough Sky: cloudy & overcast

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|----------------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0m | R | 36 | | | | | |
| " " | L | 36 | | | | | |
| 20m | R | 36.4 | | | | | |
| 21 " | L | 36.3 | | | | | |
| <u>Density</u> | | | | | | | |
| 30m | | 1026 | | | | | |
| 0+ | | 1024 | | | | | |

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

11-5314

| Description | Depth | TIME | | Speed |
|---------------------------------|-------|------|----|-------|
| | | Down | Up | |
| 0'm T-1- $\frac{1}{2}$ mets out | | | | |
| 15' T-2 - 1 feet mets | | | | |

11-5314

NOTES

Wing E.S.E. fresh breeze,
very choppy.
This is first trawl for season
over stations five and six.
no fishing boats out anywhere
to day.

Several young fish was taken
to dry from this tow. all from
over $\frac{1}{2}$ meter net on surface

Great abundance of Tenebrio
also several young fish

S: Station No.

G. 60

Date: Mar 11 1911

NETS, ETC., USED

H: Hour: 2:40 P. M. to 3:00 P. M.

P: Position: Lat. 3/4 Mile Long. N. N. E.
Lorckolds Lighthouse

L: Locality:

D: Depth: 30 mts Bottom: soft Sample:

W: Wind: Direction, S S E Force, light

S: Sea: Heavy Sky: Cloudy & overcast

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0 M | R | 36 | | | | | |
| " " | L | 36 | | | | | |
| 20 " | R | 37 | | | | | |
| " " | L | 37 | | | | | |

0 M Density 1025.8
30 " 1026

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Fish + eggs scarce.

| Description | Depth | TIME | | Speed |
|------------------------------|-------|------|----|-------|
| | | Down | Up | |
| T. T. 1/2 Meter net | | | | |
| T-2-1 foot net 20 meters up. | | | | |

11-5314

NOTES

Get fish in 20 meters net to
depth and fish eggs in
surface net
Wind S S E fresh breeze
and rough.

11-5314

St. Station No.

S. 61

Date:

Mar 20

1915

NETS, ETC., USED

H. Hour: 4 P.M. to 4:30 P.M.

P. Position: Lat. 42° 30' S. Long. 168° 30' E.
Light buckled from E by S. wind.

L. Locality: Hendrick's Head N. by E.

D. Depth: 30 m. Bottom: soft Sample:

W. Wind: Direction, N.W. Force, Strong breeze

S. Sea: Very old sea Sky: clear.

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0 m | R. | 37 | | | | | |
| + 1 | L | 37 | | | | | |
| 30 " | R | 38 | | | | | |
| 11 " | L | 38. | | | | | |

correctly

0 m 1024.2

30 " 1026.2

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Practically no telephones this
town. Few cod eggs

11-5314

| Description | Depth | TIME | | Speed |
|---------------------------|-------|------|----|-------|
| | | Down | Up | |
| J. 1. 1/2 Meters net | 0 mts | | | |
| J. 2 - 1 Foot net. 25 mts | | | | |

11-5314

NOTES

Not very many eggs today
and no larval fish

S. Station No.

G. 62

Date: Mar 24 1915

H. Hour: 2 30 M. to

3 P. M.

P. Position: Lat. Station (2) Long. Sheepscot Bay
Buckaldes light house bears E by S.

L. Locality: Hendricks Head light N by E

D. Depth: 30 Mts Bottom: soft Sample:

W. Wind: Direction, S. W Force, fresh breeze

S. Sea: choppy Sky: clear.

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 0m | R. | 37 | | | | | |
| " " | L | 37 | | | | | |
| 30" | P | 35 | | | | | |
| " " | L | 35 | | | | | |

Density

0 mts 1024.4

30 " 1026.2

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |

Color of water:

Transparency:

REMARKS:

A few eggs, no larval fish

NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|----------------------------|-------|------|----|-------|
| | | Down | Up | |
| T. T. & Net, 1/2 meter net | | | | |
| T - 2-25 mts dep 1/2 mts | | | | |

11-5314

NOTES

11-5314

St. Station No.

A. 63

Date:

Apr 1

1915

H. Hour: 2 PM M. to 2-40 P. M.

P. Position: Lat. Station (4) on chart Long.

L. Locality: 1 miles N E, Head of Head light house, Sheepscot River

D. Depth: 30 fms Bottom: hard Sample:

W. Wind: Direction, S.W. Force, Good breeze

S. Sea: choppy Sky: clear

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|-------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 30m | R | 36 | | | | | |
| " " | L | 36 | | | | | |
| 07m | R | 38 | | | | | |
| " " | L | 38 | | | | | |

Density

| | |
|--------|--------|
| 30 fms | 1025.8 |
| 0 " " | 1021.2 |

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

Great quantities of tomcods
few eggs and no large fish.

G. 63 NETS, ETC., USED

| Description | Depth | TIME | | Speed |
|-----------------------|-------|------|----|-------------|
| | | Down | Up | |
| J. 1 - 1/2 Meters net | | | | Surface |
| J. 2 1/2 " | | | | 20 fms. up. |
| T - 3 - 1 foot | | | | 30 " |

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NOTES

Towed from Station 3 to and above
station 4 as charted.

Let our cod net to day
Near Harding ledge below Sheepscot
River. This seems to be the only
way that we can get a chance
to see any fish. As each day
we have about 8 hours to do our
work and the operations are limited
by the day.

St Station No. G 64

Date: May 3

1915

NETS, ETC., USED

H Hour: 10 30 A.M. to 11 A.M.

P Position: Lat. Sheepscot Bay, Long.

W NW from buckfield's Bell

L Locality: S. H. Hendricks lighthouse

D Depth: 20 mts Bottom: Rocky Sample:

W Wind: Direction, SW Force, strong

S Sea: choppy Sky: overcast & foggy

TEMPERATURES

| Depth | Thermometer— Make and No. | Reading | Stem Temp. | Correc- tion | Corrected Temp. | W. Sample | Bottle used |
|---------|------------------------------|---------|---------------|-----------------|--------------------|-----------|----------------|
| 20 mts. | R. | 41 | | | | | |
| " " | L | 41 | | | | | |
| 07 mts | R. | 44 | | | | | |
| " " | L | 44 | | | | | |

Density

20 mts. 1024.8
0 " 1023.4

CURRENTS

| Depth | Hour | Tide | Time down | Revolutions | Speed | Direction |
|-------|------|------|-----------|-------------|-------|-----------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Color of water:

Transparency:

REMARKS:

No telephones this hour.
Plenty of Red eels and eggs.

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| Description | Depth | TIME | | Speed |
|---|-------|------|----|-------|
| | | Down | Up | |
| 0. Meter T. 1 - $\frac{1}{2}$ meter net | | | | |
| 20 " T-2 1 foot net. | | | | |

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NOTES

Could not set net as our was
stolen from the place where we
set it last in Sheepscot Bay.
Cod are very ripe here now.

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NETS, ETC., USED

H Hour: 9 9 . M. to 10 a . M.

P Position: Lat. 7 miles S E by E Long. Hypocrite Bell.

Wind: Direction, S.E. Force, light

Sea: Smooth Sky: cloudy & overcast

TEMPERATURES

CURRENTS

Color of water:

Transparency:

REMARKS:

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Locality:

Depth:

Bottom:

Sample:

Wind: Direction, South

Force, light

Sea: choppy

Sky: clear

TEMPERATURES

CURRENTS

Color of water:

Transparencies

REMARKS.

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NETS, ETC., USED

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NOTES

To many jelly fish to use
successfully. Panted Trowel.

NETS, ETC., USED

Locality:

Depth: _____ Bottom: _____

Sample:

Wind: Direction, Force,

Sea: **Sky:**

TEMPERATURES

CURRENTS

Color of water:

Transparency:

REMARKS:

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NOTES

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Locality:

Depth: Bottom: Sample:

Wind: Direction, S.E., Force, light

TEMPERATURES

CURRENTS

Color of water:

Transparency:

REMARKS:

NETS, ETC., USED

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NOTES

1. At what date did the Cod strike at Cape Elizabeth and at Sheepscot Bay?
2. Examine 50 or 100 Cod, mostly if possible from Dec - May, at Sheepscot Bay. Also note on Stomach contents.
Also if grounds where netting is taking place, can be marked, compare number of ripe cod with ^{some} number caught on trawls. (Count 100 at random)
3. Once ^{every two weeks} set net in Sheepscot Bay and count cod; also number of ripe ♂ & ♀. get percentage in 100 taken same day on trawl. This will give data on whether cod are biting when ripe as well as condition of the majority.
4. One trip to Belfast Bay in Spring just before Flounder work begins. Make one or more stations in center of area. Also one trip to Belfast Bay in May if possible.
5. Seining in likely spots along shore from May on between trawl from April on at 30 meters or lower.
6. One trip to Cape Elizabeth after cod start spawning. Examine proportion of ripe cod in nets and make one or more stations

Problems

1. Determine minimum density for Cod eggs, larvae.
2. Try red ~~feet~~ (Calanus) and cod fry.
1-12 cod fry and 4 Calanus in glass jar. Examine and count each hour for six hours.