

Dr 3303 - 3.122

Hyd - 2446 - 2528

Sigsbee

4440 Turns on Reel

Correction Table No 2 Reel 220 Correction

| Cor | Turn | Cor | Turn | Cor. | Turn |
|-----|------|-----|------|------|------|
| 0 | 50 | 37 | 1800 | 141 | 3550 |
| 0 | 100 | 39 | 1850 | 145 | 3600 |
| 0 | 150 | 41 | 1900 | 150 | 3650 |
| 1 | 200 | 43 | 1950 | 154 | 3700 |
| 1 | 250 | 45 | 2000 | 158 | 3750 |
| 1 | 300 | 47 | 2050 | 162 | 3800 |
| 2 | 350 | 50 | 2100 | 167 | 3850 |
| 2 | 400 | 53 | 2150 | 171 | 3900 |
| 3 | 450 | 55 | 2200 | 175 | 3950 |
| 3 | 500 | 57 | 2250 | 179 | 4000 |
| 4 | 550 | 60 | 2300 | 184 | 4050 |
| 5 | 600 | 63 | 2350 | 188 | 4100 |
| 5 | 650 | 66 | 2400 | 193 | 4150 |
| 6 | 700 | 68 | 2450 | 197 | 4200 |
| 7 | 750 | 71 | 2500 | 202 | 4250 |
| 8 | 800 | 74 | 2550 | 206 | 4300 |
| 9 | 850 | 77 | 2600 | 211 | 4350 |
| 10 | 900 | 80 | 2650 | 216 | 4400 |
| 11 | 950 | 83 | 2700 | 220 | 4440 |
| 12 | 1000 | 86 | 2750 | | |
| 13 | 1050 | 89 | 2800 | | |
| 14 | 1100 | 92 | 2850 | | |
| 15 | 1150 | 95 | 2900 | | |
| 16 | 1200 | 99 | 2950 | | |
| 18 | 1250 | 102 | 3000 | | |
| 19 | 1300 | 106 | 3050 | | |
| 21 | 1350 | 109 | 3100 | | |
| 22 | 1400 | 113 | 3150 | | |
| 24 | 1450 | 116 | 3200 | | |
| 25 | 1500 | 120 | 3250 | | |
| 27 | 1550 | 123 | 3300 | | |
| 29 | 1600 | 127 | 3350 | | |
| 31 | 1650 | 131 | 3400 | | |
| 33 | 1700 | 135 | 3450 | | |
| 35 | 1750 | 138 | 3500 | | |

24 46 - 2548.

Tanner Reel

~~418~~ Turns on Reel

348

348

Turns

Correction

42 672

+ 1

73 694

+ 2

95 6107

+ 3

158 6195

+ 4

196 6307

+ 5

~~208 6408 + 6~~

4250

62

78

89

300

24 HC Hy ^e } Next numbers
3303 5^e

2444 2528

No. 2446 Hyd. Date July 21st 1890.
Tanner Machine. Reel.

Turns 29 Cor. + - Depth 29 fms.
Shot or lead 28 lbs.

Bottom fine gy. s.

Bottom temperature 41°

No. of Thermometer 63902 Cor. -

Corrected temperature 41°

Air 48° Surface 47° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 10 36.30 | 37.30 | 0 | | |
| 36.45 | 10.36.30 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

10 fms. line over side at 10.35.
In at 10.55.
Catch: 19 Cod fish.

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

Cod SERIAL TEMPERATURE *Measurements*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|------------|--------------------|------|------------|
| 25 | 8 lbs | Minim ^m | 26 | <u>iii</u> |
| 50 | 16 1/2 lbs | Maxim ^m | 32 | <u>iii</u> |
| 100 | 11 1/2 lbs | Average. | 30 | <u>iii</u> |
| 200 | | | | |
| 300 | 9 | Males. | 10 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3303 $\frac{5}{7}$ Date July 21, 1890

Tanner Machine. Reel.

Turns 33 Cor. + 0 Depth 33 fm

~~Shot or lead~~ 28 lbs

Bottom bk. 8

Bottom temperature 39.5

No. of Thermometer 63902 Cor. -

Corrected temperature 39.5

Air 48° Surface 50° Drift. 0.6 N 1/2 E

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0.2

1.02 15 03. 25

0

1.15 45 38.35

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Put over 10 fathoms
 in at 1.11
 Balch. 3 leadfish

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

60d

SERIAL TEMPERATURE Measurements

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|--------|--------------|--------|------------|
| 25 | min | 2 1/2 fths | 18 | m |
| 50 | max | 16 | 33 | " |
| 100 | avg | 9 | 26 1/2 | " |
| 200 | | | | |
| 300 | | | | |
| 400 | 1 Male | 2 Females | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

Hermit crabs Shells
 crabs, Ascidians,
 Flounders, Shrimps (4 kinds),
 Star fishes 1 or 2.
 Naked Mollusks
 Sculpin, small Alligator Fish

567.

No. 2447. day Date July 21. 1890
 Tanner Machine. Reel.

Turns 31 Cor. + 0 Depth 31 fms

Shot or lead 28 lbs

Bottom fine gy. s

Bottom temperature 39.5

No. of Thermometer 63902 Cor. —

Corrected temperature 39.5

Air 50 Surface 52 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3.33.00

33.58

0

33.25

3.33.21

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Part over 10 hands time
 in at 3.44
 Calcul: 3.32

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1700
667.

No. 2448 Hy 1 Date July 21st 1890.
Tanner Machine. — Reel.

Turns 27 Cor. + — Depth 27 fms.

Shot or lead 28 lbs.

Bottom fine gy. s.

Bottom temperature 39.8°

No. of Thermometer 63902 Cor. —

Corrected temperature 39.8°

Air 50° Surface 52° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|--------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 5. 51. 25 | 52. 30 | 0 | | |
| 51. 40 | 51. 50 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

10 Hand line over port side at 5.50.
 In at 6.05.
 Catch: — 5 Cod fish.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod

SERIAL TEMPERATURE, Measurements

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|--------|------------------|------|------------|
| 25 | 6 fbs | Minimum <u>m</u> | 26 | <u>m</u> |
| 50 | 15 fbs | Maximum <u>m</u> | 33 | <u>m</u> |
| 100 | 10 fbs | Average. | 29 | <u>m</u> |
| 200 | | | | |
| 300 | 2 | Males. | 3 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

507.
 15
 15

No. 3304 $\frac{1}{2}$ Date July 21st 1890.
 Tanner Machine. - Reel.

Turns 28 Cor. + - Depth 28 fms.

Shot or lead 28 lbs.

Bottom fm. gy. S.

Bottom temperature did not capsize.

No. of Thermometer 63902 Cor. -

Corrected temperature -

Air 47° Surface 49° Drift. 1' N. 1/2 W.

Trawl or dredge or tangles *Chusky Rake*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| 8.34.40 | 06.00 | 0 | 8.21.30 | 44.30 |
| 05.00 | 8.05.10 | 100 | 25.30 | 8.40.40 |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

Put on 10 fathoms
 in at 8.20
 catch 8 codfish

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE, *Measurements*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|--------------------------|--------------|-----------|------------------|
| 25 | <i>min</i> | 8 | <i>lb</i> | <i>27 1/2 in</i> |
| 50 | <i>max</i> | 13 | | <i>30 -</i> |
| 100 | <i>avg</i> | 9 1/2 | | <i>28 7/8</i> |
| 200 | | | | |
| 300 | | | | |
| 400 | <i>6 Females 2 Males</i> | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

Star fish *Shrimps*
Basket Stars *1/2 doz Sand Lance*
Hermit crabs
Crabs
Pollock

No. 2449 Date July 21st
 Tanner Machine. Reel.

Turns 23 Cor. + 0 Depth 23 fms

Shot or lead 28 lb

Bottom fine bk. S.

Bottom temperature 40.6

No. of Thermometer 63902 Cor. -

Corrected temperature 40.6

Air 47 Surface 49 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.00.00

01.00

0

00.30 10.00.35

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2450 Key Date July 21. 1891
 Tanner Machine. Reel.

Turns 26 Cor. + 0 Depth 22 fms.

Shot or lead 28 lbs

Bottom fine gy. s. & g.

Bottom temperature 40.2

No. of Thermometer 63902 Cor. —

Corrected temperature 40.2

Air 47 Surface 49 Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 10.46.00 | 10.47.00 | 0 | anchored | |
| 46.30 | 46.21 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

At 3.30 fms. 7 feet lower for 15 mins
 Catches - 17 Cod fish.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod

SERIAL TEMPERATURE

Measurements

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------------|--------------------|--------|------------|
| 25 | 10 lbs. | Minim ^m | 28 | <u>in.</u> |
| 50 | 22 lbs. | Maxim ^m | 36 | <u>in.</u> |
| 100 | 13 1/4 lbs. | Average. | 31 1/2 | <u>in.</u> |
| 200 | | | " | |
| 300 | 7 | Males. | 10 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1890
607

No. 2451 Hy^d Date July 22^d 1890.
Tanner Machine. Reel.

Turns 31 Cor. + - Depth 31 fms.

Shot or lead 28 lbs.

Bottom fine gy. S.

Bottom temperature 41°

No. of Thermometer 63902 Cor. -

Corrected temperature 41°

Air 46° Surface 49° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6.29.00 30.00

29.15. 6.29.25

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

8 fms. line over stbd side at 6.30
In at 6.45.
Catch: - 4 Cod fish.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod

SERIAL TEMPERATURE

Measurements

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|----------------------------|--------------|--------|---------------|
| 25 | 9 fbs. Minim ^m | | 28 | ⁱⁿ |
| 50 | 16 fbs. Maxim ^m | | 32 | ⁱⁿ |
| 100 | 12 fbs. Average - | | 30 1/4 | ⁱⁿ |
| 200 | | | | |
| 300 | 1 | Males. | 3 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567. *13*

No. *3305* ^{*52*} Date *July 22 1890*
Tanner Machine. Reel.

Turns *23* Cor. + *0* Depth *23 fms*

~~Shot or lead~~ *28 lb*

Bottom *fine gy. s*

Bottom temperature *42.8°*

No. of Thermometer *63902* Cor. —

Corrected temperature *41.8*

Air *47°* Surface *50°* Drift *15 SE*

~~Trawl or dredge or tangles~~ *beetle rake*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|-------------------------------------|----------------|----------------|
| DOWN. | <i>UP.</i> | | DOWN. | UP. |
| <i>8.45.10</i> | <i>8.46.20</i> | 0 | <i>9.03.30</i> | <i>19.30</i> |
| <i>45.50</i> | <i>8.45.51</i> | 100 ^{<i>60</i>} | <i>06.50</i> | <i>9.17.15</i> |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | ^{<i>15</i>} 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

*Pulver 9 hauldine starboard side at 8.45 -
 in at 9.00
 catch: 7 Cod fish*

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Lead

SERIAL TEMPERATURE, Measurements

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | Min | 7 | 26 | in |
| 50 | Max | 15 | 33 | " |
| 100 | Avg | 18 1/2 | 29 | " |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

Shells Murex crabs
 crabs, Worms Star fish
 Basket Star
 Hydroids

No. 2452 Date July 22 1898
 Tanner Machine. Reel.

Turns 30 Cor. + 0 Depth 30 fms

Shot or lead 28 lbs

Bottom

Bottom temperature 41.2

No. of Thermometer 63902 Cor. -

Corrected temperature 41.2

Air 47 ° Surface 60 ° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.03.30

04. N

0

03 45

11.03.46

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

shot and lead 11.03

Put 10 handlines over

sw at 11.19

catch: 4 cod

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|--------|------------|
| 25 | Min | 8 lb | 23 | In |
| 50 | Max | 10 " | 30 | " |
| 100 | Avg | 9 " | 27 1/2 | " |
| 200 | | | | |
| 300 | 3 | Males | | |
| 400 | 21 | Female | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567.

No. 2453 Hy^d Date July 22^d 1890.

Tanner Machine. — Reel.

Turns 32 Cor. + — Depth 32 fms.

Shot or lead 28 lbs. Bascinet Sounder —

Bottom gy. S.

Bottom temperature none taken —

No. of Thermometer — Cor. —

Corrected temperature —

Air 47° Surface 51° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 12.20.00 | 12.21.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3306 Dr. Date July 22nd 1890.
 Tanner Machine. — Reel.

Turns 33 Cor. + — Depth 33 fms.

Shot or lead 28 lbs.

Bottom fine gg. S.

Bottom temperature 38.9

No. of Thermometer 63902 Cor. —

Corrected temperature 38.9

Air 46° Surface 52° Drift. 1st S. E.

Trawl or dredge or tangles Chester Rake.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| | | | | |
|-----------|-----------|------|-----------|-----------|
| 1. 18. 15 | 19. 35 | 0 | 1. 39. 45 | 04. 00 |
| 16. 40 | 1. 18. 50 | 100 | 43. 15 | 2. 00. 15 |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

10 fms. line over starboard side at 1.20 —
 In at 1.38
 Catch: — 5 Cod fish.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod

SERIAL TEMPERATURE Measurements

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|------------|--------------|------|------------|
| 25 | 7 1/2 lbs | Minima | 27 | in |
| 50 | 13 1/2 lbs | Maxima | 31 | in |
| 100 | 8 1/4 lbs | Average | 29 | in |
| 200 | | | | |
| 300 | 3 | Males. | 2 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

2' Holothurians. 2 doz. Crabs. Astrophylons.
 2 qts. Hermit Crabs. 1 cf spp. Star fish.
 3 flounders. 1 pk. Shells. Polyps.
 Ascidians. Small Shells. 4 spp. Shrimps.
 Bryozoa.

567.
 5613

No. 2454 Hy^d Date July 22^d 1890.
 Tanner Machine. — Reel.

Turns 29 Cor. + — Depth 29 fms.

Shot or lead 28 lbs.

Bottom dk. S.

Bottom temperature 41.8

No. of Thermometer 63902 Cor. —

Corrected temperature 41.8

Air 45° Surface 50° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 3.47.15 | 48.20 | 0 | | |
| 47.30 | 3.47.40 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

10 fms. down at 3.50.
 In at 4.05.
 Catch: — 5 leadfish

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Lead SERIAL TEMPERATURE, *Measurements*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|------------|---------------|-----------------|------------|
| 25 | <i>min</i> | <i>5 lb</i> | <i>25 in</i> | |
| 50 | <i>max</i> | <i>14 lb</i> | <i>31 in</i> | |
| 100 | <i>avg</i> | <i>10 "</i> | <i>28 3/4 "</i> | |
| 200 | | | | |
| 300 | <i>1</i> | <i>Female</i> | <i>4 Males</i> | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2455 Key Date July 22^d 1890
 Tanner Machine. Reel.

Turns 38 Cor. + 0 Depth 38 fms

Shot or lead 28 lb

Bottom fine gy. S.

Bottom temperature 41

No. of Thermometer 63902 Cor. —

Corrected temperature 41°

Air 45° Surface 48° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|---------|-------|--------|-------|-----|
| 5 52.00 | 53.00 | 0 | | |
| 20 | 52.27 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

Put over 10 handline once set at 5:52
 Shot 6.0 p
 Catch: 2 leopards

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Cod

SERIAL TEMPERATURE, *Measurements*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|------------------|------------------|------------------|------------|
| 25 | <i>min</i> | <i>10 "</i> | <i>29</i> | |
| 50 | <i>max</i> | <i>11 "</i> | <i>30</i> | |
| 100 | <i>Aveq</i> | <i>10 1/2 lb</i> | <i>29 1/2 in</i> | |
| 200 | | | | |
| 300 | <i>2 Females</i> | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2456 Hyd Date July 22^d 1890.
 Tanner Machine. Reel.

Turns 32 Cor. + — Depth 32 fms.

Shot or lead 28 lbs. Barnett Sander

Bottom gy S. G.

Bottom temperature none taken

No. of Thermometer — Cor. —

Corrected temperature —

Air 45° Surface 49° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.48.00

9.50.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

170.0
507

No. 2457 Hyd. Date July 22nd 1890.
Tanner Machine. Reel.

Turns 30 Cor. + — Depth 30 fms.

Shot or lead 28 lbs. Basenett Sounder

Bottom fine gy. S.

Bottom temperature none taken

No. of Thermometer — Cor. —

Corrected temperature —

Air 46° Surface 49° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 10.15.00 | 10.16.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567.
No. 2.

No. 2458 Hyd Date July 22^d 1890.
Tanner Machine. Reel.

Turns 22 Cor. + — Depth 22 fms.

Shot or lead 28 lbs. Bassett Sounder

Bottom G.

Bottom temperature none taken

No. of Thermometer — Cor. —

Corrected temperature —

Air 46° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.43.00 10.45.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2459 Hyd. Date July 22^d 1890-
 Hand lead Machine. - Reel.

Turns 20 Cor. + - Depth 20 fms.
 Shot or lead 12 lbs.

Bottom fine gy S
 Bottom temperature none taken

No. of Thermometer - Cor. -

Corrected temperature -

Air 46° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.05.00

11.06.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

anchored.

8th and line over at 3.30 to 6.00
 catch 4' level
 headlines 20 lbs 36 min long

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

6rd SERIAL TEMPERATURE, *Mussumms*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------------|----------------|--------------|--------------|
| 25 | <i>Mini</i> | <i>5 "</i> | <i>20</i> | |
| 50 | <i>max</i> | <i>16 "</i> | <i>33</i> | |
| 100 | <i>avg</i> | <i>9 1/4 "</i> | <i>2 1/4</i> | |
| 200 | | | | |
| 300 | | | | |
| 400 | | <i>Females</i> | | <i>Males</i> |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

562
H. D.

No. 2460 Hyd Date July 29th 1890.
Tanner Machine. - Reel.

Turns - Cor. + - Depth 18 fms.

Shot or lead 28 lbs. Basenett Sinker -

Bottom G.

Bottom temperature none taken.

No. of Thermometer - Cor. -

Corrected temperature -

Air 53° Surface 51° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

17.03.00 12.05.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

88.13
507.

No. 2461 Key Date July 29 1896

Tanner Machine. Reel.

Turns 14 Cor. + 10 Depth 14 fms

Shot or lead 28 lb. Bassett Sounder

Bottom ~~so~~ G.

Bottom temperature

No. of Thermometer Cor.

Corrected temperature

Air 49 Surface 51 Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 5.30.00 | 5.31.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. *2462* Date *Aug. 2^d 1890*

Tanner Machine. — Reel. —

Turns *60* Cor. + *1*Depth *61 fms*Shot or lead *28 lb*Bottom *bk S + G*

Bottom temperature —

No. of Thermometer —

Cor. —

Corrected temperature —

Air *47*Surface *50*

Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

7.2 2.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2463 Key Date Aug 2 1890

Machine. 2 Reel. —

Turns 334 Cor. + 131 Depth 365 fms

Shot or lead 38 lb

Bottom gn. m

Bottom temperature 43

No. of Thermometer 63902 Cor. —

Corrected temperature 43°

Air 48° Surface 48° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|---------|---------|--------|-------|-----|
| 9 37 50 | 57 38 | 0 | | |
| 38 55 | 50 35 | 100 | | |
| 39 50 | 49 40 | 200 | | |
| 40 54 | 47 40 | 300 | | |
| 41 20 | 9 47 20 | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2464 Date Aug 2. 90

Sigsbee Machine. Reel.

Turns 736 Cor. + 66 Depth 802 fms

Shot or lead 38 lb

Bottom gm m

Bottom temperature 36.2

No. of Thermometer 63912 Cor. -

Corrected temperature 36.2

Air 48° Surface 48° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11 57 10

11 00

0

52 10

10 05

100

53 00

09 15

200

53 55

07 30

300

54 53

06 20

400

55 50

05 10

500

56 55

03 40

600

58 03

01 45

700

58 25

12 01 00

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2465-Hy Date Aug 21/90

Sigsbee Machine. Reel. 2

Turns 815 Cor. + 70 Depth 885

Shot or lead 88 lb.

Bottom M

Bottom temperature 35.8

No. of Thermometer 63902 Cor. -

Corrected temperature 35.8

Air 48 Surface 50 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|--------|--------|--------|-------|-----|
| 2-10-0 | | 0 | | |
| 12-0 | | 100 | | |
| 13-0 | | 200 | | |
| 14-0 | | 300 | | |
| 15-0 | | 400 | | |
| 16-0 | | 500 | | |
| 17-0 | | 600 | | |
| 18-0 | | 700 | | |
| 19-0 | 2-23-0 | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

watch stopped

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

H 667

No. 2466 Hy^d. Date August 2^d 1890.

Sigsbee Machine. #2 Reel.

Turns 590 Cor. + 53 Depth 643 fms.

Shot or lead 38 lbs.

Bottom Hk. S. & G.

Bottom temperature 36.7°

No. of Thermometer 63902 Cor. -

Corrected temperature 36.7

Air 48° Surface 51° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | TURNS. | DOWN. | UP. |
| 4.02.20 | 19.45 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| 10.15 | 4.12.00 | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

4440 220
 590 167
 3850 53

REMARKS.

N. 2
507

No. 2467 Hy^a Date August 2^d 1890.

Sigsbee Machine. #2 Reel.

Turns 530 Cor. + 48 Depth 578 fms.

Shot or lead 38 lbs.

Bottom fine. bk. S.

Bottom temperature 37°

No. of Thermometer 63902 Cor. -

Corrected temperature 37°

Air 48° Surface 51° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 4. 41. 30 | 56. 00 | 0 | | |
| } | } | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| 48. 50 | 4. 50. 00 | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | 4440 220 |
| 50 | | | | 530 172 |
| 100 | | | | 3910 48 |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. *3301* Date *Aug 3. 1891*
Sigsbee Machine. Reel. *2*
 Turns *950* Cor. + *83* Depth *1033 fms*
 Shot or lead *35 lb*
 Bottom *gn. diatomaceous ooze*
 Bottom temperature *35.4*
 No. of Thermometer *63902* Cor. —
 Corrected temperature *35.4*
 Air *47* Surface *50* Drift. *4.5^m N 44^m W*
 Trawl or dredge or tangles *Deep Sea*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|--------|----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>6.00.00</i> | <i>23.40</i> | 0 | <i>6.27.30</i> | <i>10-0</i> |
| <i>01.03</i> | <i>23.10</i> | 100 | <i>31.25</i> | <i>08-0</i> |
| <i>03.32</i> | <i>22.40</i> | 200 | <i>35.45</i> | <i>05-0</i> |
| <i>04.55</i> | <i>22.00</i> | 300 | <i>40.50</i> | <i>9.01-0</i> |
| <i>06.20</i> | <i>21.20</i> | 400 | <i>44.12</i> | <i>17-0</i> |
| <i>07.10</i> | <i>20.30</i> | 500 | <i>46.25</i> | <i>56-0</i> |
| <i>08.00</i> | <i>19.50</i> | 600 | <i>49.15</i> | <i>53-0</i> |
| <i>09.30</i> | <i>19.11</i> | 700 | <i>53.10</i> | <i>51-0</i> |
| <i>11.00</i> | <i>18.00</i> | 800 | <i>56.50</i> | <i>41-0</i> |
| <i>12.33</i> | <i>16.00</i> | 900 | <i>7.00.15</i> | <i>45-0</i> |
| <i>12.45</i> | <i>6.14.10</i> | 1000 | <i>03.35</i> | <i>42-0</i> |
| | | 1100 | <i>06.53</i> | <i>37-0</i> |
| | | 1200 | <i>10.00</i> | <i>56-0</i> |
| | | 1300 | <i>14.10</i> | <i>33-0</i> |
| | | 1400 | <i>18.30</i> | <i>30-0</i> |
| | | 1500 | <i>21.40</i> | <i>27-0</i> |
| | | 1600 | <i>25.20</i> | <i>24-0</i> |
| | | 1700 | <i>28.30</i> | <i>20-0</i> |
| | | 1800 | <i>33.15</i> | <i>8-15-45</i> |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | 22.0 |
| 100 | | 4440 | | 13.7 |
| 200 | | 950 | | 8.3 |
| 300 | | 3490 | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

5 Kinds Starfishes.

REMARKS.

1 Crab

Holothurina

Polyps

Macrurus

S. p. 100

2 Kinds Shrimp

Mysidaceae

Several Worms

Sea Anemones

1798.
667.

No. 2468 Hy^d Date August 3^d 1890-
Sigsbee Machine. #2 Reel.

Turns 1615 Cor. + 130 Depth 1745 fms.

Shot or lead 35 lbs.

Bottom soft green ooze.

Bottom temperature 35°

No. of Thermometer 63902 Cor. —

Corrected temperature 35°

Air 50° Surface 52° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | | DREDGE ROPE. | |
|----------------|---------|--------------|--------------|-----|
| DOWN. | UP. | TURNS. | DOWN. | UP. |
| 2 35.00 | 12.00 | 0 | | |
| — | 11.20 | 100 | | |
| 37.10 | 10.40 | 200 | | |
| 38.20 | 10.00 | 300 | | |
| 39.30 | 09.25 | 400 | | |
| 40.40 | 08.45 | 500 | | |
| 42.00 | 08.05 | 600 | | |
| 43.20 | 07.20 | 700 | | |
| 44.40 | 06.35 | 800 | | |
| 46.00 | 05.45 | 900 | | |
| 47.30 | 05.00 | 1000 | | |
| 49.00 | 04.10 | 1100 | | |
| 50.40 | 03.15 | 1200 | | |
| 52.00 | 02.25 | 1300 | | |
| 53.40 | 01.30 | 1400 | | |
| 55.10 | 00.30 | 1500 | | |
| 56.50 | 59.00 | 1600 | | |
| 57.10 | 2.58.50 | 1615 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

Diatomaceous ooze and
volcanic dust.

4440
1615
2825

220
90
130
1615
1745

No. 2469 Hy Date August 3rd 1890

Sigsbee Machine. Reel.

Turns 1684 Cor. + 134 Depth 1818 fms

Shot or lead 35 lbs

Bottom gy. oz.

Bottom temperature 35.0

No. of Thermometer 63902 Cor. -

Corrected temperature 35.0

Air 48 Surface 51 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| | | | | |
|----------|----------|------------|--|--|
| 9.52.40 | 38.58 | 0 | | |
| 53 25 | 38.20 | 100 | | |
| 54 20 | 38.00 | 200 | | |
| 55 22 | 37.30 | 300 | | |
| 56 35 | 36.50 | 400 | | |
| 57 45 | 36.00 | 500 | | |
| 59. 10 | 35.00 | 600 | | |
| 10 00 45 | 33.40 | 700 | | |
| 02 10 | 32.55 | 800 | | |
| 04 00 | 31.50 | 900 | | |
| 05 20 | 31.00 | 1000 | | |
| 07. 07 | 29.00 | 1100 | | |
| 08 55 | 27.30 | 1200 | | |
| 10 40 | 25.00 | 1300 | | |
| 11 30 | 23.30 | 1400 | | |
| 14 25 | 22.00 | 1500 | | |
| 16. 10 | 20.20.00 | 1600 | | |
| | | 84 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3308 *Dr* Date *August 4/90*

Sigsbee Machine. Reel. *2*

Turns *1500* Cor. + *125* Depth *1625*

Shot or lead *35 lbs.*

Bottom *gn. Oz.*

Bottom temperature *35°*

No. of Thermometer *63902* Cor. -

Corrected temperature *35°*

Air *47* Surface *50* Drift. *6.5 NW x N*

Trawl or dredge or tangles

Deep Sea

SOUNDING WIRE.

Down DREDGE ROPE.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|---------------|----------------|--------|---------------|-----------------|
| <i>5-25-0</i> | <i>6-02-30</i> | 0 | <i>6-07-2</i> | <i>10.25.00</i> |
| <i>36-30</i> | | 100 | <i>11-30</i> | <i>22.10</i> |
| <i>27-0</i> | | 200 | <i>15-30</i> | <i>19.40</i> |
| <i>29-0</i> | | 300 | <i>20-0</i> | <i>17.00</i> |
| <i>24-0</i> | | 400 | <i>25-0</i> | <i>14.35</i> |
| <i>30-0</i> | | 500 | <i>36-0</i> | <i>12.00</i> |
| <i>31-0</i> | | 600 | <i>30-30</i> | <i>09.20</i> |
| <i>33-0</i> | | 700 | <i>35-0</i> | <i>06.40</i> |
| <i>34-0</i> | | 800 | <i>38-0</i> | <i>04.10</i> |
| <i>36-0</i> | | 900 | <i>41-0</i> | <i>10.01.50</i> |
| <i>38-0</i> | | 1000 | <i>44-0</i> | <i>59.20</i> |
| <i>40-0</i> | | 1100 | <i>47-0</i> | <i>56.25</i> |
| <i>42-0</i> | | 1200 | <i>50-0</i> | <i>53.30</i> |
| <i>44-0</i> | | 1300 | <i>53-0</i> | <i>50.30</i> |
| <i>46-0</i> | | 1400 | <i>56-0</i> | <i>47.30</i> |
| <i>48-0</i> | <i>5-50-0</i> | 1500 | <i>59-0</i> | <i>44.30</i> |
| | | 1600 | <i>7-03-0</i> | <i>41.00</i> |
| | | 1700 | <i>-07-0</i> | <i>37.30</i> |
| | | 1800 | <i>19-0</i> | <i>34.30</i> |
| | | 1900 | <i>15-0</i> | <i>31.00</i> |
| | | 2000 | <i>18-0</i> | <i>28.30</i> |
| | | 2100 | <i>21-30</i> | <i>25.00</i> |
| | | 2200 | <i>25-0</i> | <i>20.15</i> |
| | | 2300 | <i>29-0</i> | <i>16.30</i> |
| | | 2400 | <i>32-0</i> | <i>9.12.00</i> |

| | |
|---------|------|
| 07.40 | 2500 |
| 9.03.20 | 2600 |
| | 2700 |
| | 2800 |
| | 2900 |
| | 3000 |
| | 3100 |
| | 3200 |
| | 3300 |
| | 3400 |
| | 3500 |
| | 3600 |
| | 3700 |
| | 3800 |
| | 3900 |
| | 4000 |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

| | |
|----------------------|---------------------------|
| 1 Antimora - | REMARKS. 1 Deep-sea Eel. |
| 1 Spiny Eel - | 2 sps. Star fish. |
| 2 sps. Holothurians. | Small Crabs. |
| Sea Anemones. | Worm tubes & Worms. |
| Shrimps. | Small bushy Alcyonarians. |
| Purple Medusae. | Small Deep-sea fishes. |

567.

No. 2470 Key Date Aug 4th 1890
 Sigbee Machine. 2 Reel.

Turns 62 Cor. + 7 Depth 69 fms

Shot or lead 38 lb

Bottom gn M

Bottom temperature 38.5

No. of Thermometer 63902 Cor. -

Corrected temperature 38.5

Air 46 Surface 50 Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 3. 13.50 | 16.30 | 0 | | |
| 15.05 | 3.15.10 | 62 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3309 Dr. Date August 4/90.

Engine Machine. Reel. 2

Turns 64 Cor. + 7 Depth 71

Shot or lead 38 lb

Bottom fm m

Bottom temperature 37.9

No. of Thermometer 63902 Cor. -

Corrected temperature 37.9

Air 46 Surface 50 Drift 1 m SW x W

Trawl or dredge or tangles Large Beam Trawl

SOUNDING WIRE.

Down DREDGE ROPE.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|--------|--------|--------|--------|--------|
| 5-18-0 | 5-15-0 | 0 | 5-17.0 | 46-0 |
| | | 100 | 5-1-0 | 43 0 |
| | | 200 | 5-26-0 | 5-39-0 |
| | | 210 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|----------------------------------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | 1 bush <i>Aphurcans</i> | | | |
| 700 | 1 small Star fish | | | |
| 800 | 3 <i>Spiris</i> Shells | | | |
| 900 | 4 " Shrimp | | | |
| 1000 | 1 pk. <i>Pana</i> <i>Dallara</i> | | | |

REMARKS.

few Sea Urchins few worms
 Hermit crabs washed in alcohol
 small " few long eel
 1 large " Alligator fish
 1 Sea Anemone small Caul fin
 few Sponges.

No. 2471 Hy^d Date August 4th 1890-

Sigsbee Machine. #2 Reel.

Turns 287 Cor. + 27 Depth 314 fms-

~~Shot or lead~~ 38 lbs.

Bottom gn. M.

Bottom temperature 38.2

No. of Thermometer 63902 Cor. -

Corrected temperature 38.2

Air 46° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

8.03.00

12.00

0

100

200

287

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

08.30

8.09.30

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | 220 | |
| 50 | | 4440 | 193 | |
| 100 | | 280 | 27 | |
| 200 | | 4150 | | * |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2472 Hy^d Date Aug. 4th 1890.

Sigsbee Machine. #2 Reel.

Turns 405 Cor. + 40 Depth 445 fms.

Shot or lead 38 lbs.

Bottom gn. M.

Bottom temperature 37.5

No. of Thermometer 63902 Cor. -

Corrected temperature 37.5

Air 45° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11. 30.00

48.50

0

100

200

300

39.00

11. 41.00

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | 44.40 | | | |
| 50 | 44.05 | | | |
| 100 | 40.35 | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2473 *dy* Date Aug 5 1890

Sigsbee Machine. 72 Reel.

Turns 1610 Cor. + 130 Depth 1740 fms

Shot or lead 38 lb

Bottom gn oz

Bottom temperature 35°

No. of Thermometer 63902 Cor. -

Corrected temperature 35°

Air 47° Surface 38° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| | | |
|----------|---------|------|
| 3. 45 50 | 36.20 | 0 |
| 47.10 | 34.20 | 100 |
| 48.10 | 33.20 | 200 |
| 49.40 | 32.20 | 300 |
| 50.40 | 31.50 | 400 |
| 52.20 | 30.05 | 500 |
| 54.00 | 29.00 | 600 |
| 55.25 | 27.45 | 700 |
| 56.50 | 26.30 | 800 |
| 58.20 | 25.35 | 900 |
| 59.45 | 24.20 | 1000 |
| 4 01.25 | 23.08 | 1100 |
| 03.12 | 21.40 | 1200 |
| 04.50 | 20.20 | 1300 |
| 06.00 | 17.10 | 1400 |
| 08.30 | 15.20 | 1500 |
| 08.50 | 4 15.10 | 1600 |

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2474 Hy¹ Date

Aug 5/90.

Machine. Reel.

Turns 892 Cor. + 85 Depth 977

Shot or lead 38 lb

Bottom mud, S.

Bottom temperature

No. of Thermometer 63902 Cor. -

Corrected temperature 35.8

Air 47 Surface 50 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| | | | | |
|---------|-------|------|--|--|
| 8-18-20 | 49-0 | 0 | | |
| 20-18 | 47-30 | 100 | | |
| 23-10 | 46- | 200 | | |
| 24-32 | 44-30 | 300 | | |
| 26-09 | 43- | 400 | | |
| 27-30 | 41-0 | 500 | | |
| 28-20 | 39-30 | 600 | | |
| 30-28 | 38 | 700 | | |
| 32-5 | 36-30 | 800 | | |
| 33-45 | 35-0 | 92 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2475 Hy^a Date Aug. 5th 1890.

Sigsbee Machine. #2 Reel.

Turns 130 Cor. + 14 Depth 144 fms.

Shot or lead 35 lbs.

Bottom fine dk. S.

Bottom temperature 38°

No. of Thermometer 63902 Cor. -

Corrected temperature 38°

Air 47° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12.10.00 15.10

12.00 12.13.30

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|--|--------------|------|------------|
| 25 | $ \begin{array}{r} 4440 \\ 130 \\ \hline 4310 \end{array} $ | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567.
17.8.

No. 2476 Hyd. Date Aug. 6. 1890

Sigsbee Machine. 2 Reel.

Turns 1750 Cor. + 137 Depth 1887 fms

Shot or lead 35 lbs

Bottom gn. Oz.

Bottom temperature 35°

No. of Thermometer 63902 Cor. -

Corrected temperature 35°

Air 46° Surface 50° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 7. 35 30 | 8. 24. 30 | 0 | | |
| 37 06 | | 100 | | |
| 38 16 | | 200 | | |
| 39 30 | | 300 | | |
| 41. 30 | | 400 | | |
| 43. 30 | | 500 | | |
| 44 50 | | 600 | | |
| 46 45 | | 700 | | |
| 48. 15 | | 800 | | |
| 49 15 | | 900 | | |
| 50 15 | | 1000 | | |
| 51 55 | | 1100 | | |
| 53 30 | | 1200 | | |
| 55 10 | | 1300 | | |
| 56 50 | | 1400 | | |
| 58. 40 | | 1500 | | |
| 8 00 25 | | 1600 | | |
| 03. 55 | | 1700 | | |
| 04 10 | 8 06 50 | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | 220 | |
| 50 | | | 83 | |
| 100 | | 4440 | 139 | |
| 200 | | 1750 | 1750 | |
| 300 | | 2690 | 1887 | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2477 *Ny^L* Date *August 6^E 1890*
Sigsbee Machine. #2 Reel.

Turns *1864* Cor. + *144* Depth *1998 fms*

Shot or lead *35 lbs.*

Bottom *gn. Oy.*

Bottom temperature *34.9*

No. of Thermometer *63902* Cor. —

Corrected temperature *34.9*

Air *48°* Surface *50°* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| | | | | |
|--------------|--------------|---------------------|--|--|
| <i>23 00</i> | <i>15.25</i> | 0 | | |
| <i>24 00</i> | <i>14.30</i> | 100 | | |
| <i>25 15</i> | <i>13.20</i> | 200 | | |
| <i>26 40</i> | <i>12.20</i> | 300 | | |
| <i>28 05</i> | <i>11.20</i> | 400 | | |
| <i>29 30</i> | <i>10.20</i> | 500 | | |
| <i>30 35</i> | <i>09.00</i> | 600 | | |
| <i>33 10</i> | <i>07.40</i> | 700 | | |
| <i>34 20</i> | <i>06.20</i> | 800 | | |
| <i>35 20</i> | <i>05.10</i> | 900 | | |
| <i>36 45</i> | <i>04.00</i> | 1000 | | |
| <i>38 20</i> | <i>02.40</i> | 1100 | | |
| <i>40 50</i> | <i>01.30</i> | 1200 | | |
| <i>41 30</i> | <i>00.55</i> | 1300 | | |
| <i>43 25</i> | <i>59.35</i> | 1400 | | |
| <i>45 15</i> | <i>58.35</i> | 1500 | | |
| <i>47 10</i> | <i>57.45</i> | 1600 | | |
| <i>49 00</i> | <i>56.56</i> | 1700 | | |
| <i>49 50</i> | <i>53.50</i> | 1800 | | |
| <i>50 10</i> | <i>52.20</i> | <i>1552</i> 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

4440
185-6
2586

230
46

144

1852

1998

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|------------|-------|--------------|------|------------|
| 36.8 } 25 | 42.5 | 63912 | -0.1 | 42.4 |
| 37.0 } 50 | 37.0 | 51451 | -0.1 | 36.9 |
| 38.2 } 100 | 38.2 | 61758 | -0.1 | 38.1 |
| 200 | 38.8 | 52732 | — | 38.8 |
| 300 | 38.7 | 57260 | -0.7 | 38.0 |
| 400 | 37.6 | 62358 | -0.1 | 37.5 |
| 36.9 } 500 | 36.9 | 61592 | +0.2 | 37.1 |
| 600 | 36.5 | 61755 | — | 36.5 |
| 36.5 } 700 | 36.5 | 63900 | — | 36.5 |
| 36.3 } 800 | 36.3 | 54815 | — | 36.3 |
| 35.5 } 800 | 35.5 | 61768 * | -0.3 | 36.0 |
| 36.1 } 900 | 36.0 | 63913 | — | 36.0 |
| 900 | 38.5 | 61766 * | — | 36.0 |
| 1000 | 35.4 | 63902 | — | 35.4 |
| | 36.0 | 61767 * | — | 36.0 |

REMARKS.

* Long bodied cases.

No. 2478 Key Date Aug 7th 90

Machine. #2 Reel.

Turns 1897 Cor. + 149 Depth 2036 fms

Shot or lead 60 lbs.

Bottom gn. sz

Bottom temperature 35.0

No. of Thermometer 63902 Cor. -

Corrected temperature 35.0

Air 46 Surface 50 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| | | |
|----------|---------|------|
| 12 45.00 | 27.00 | 0 |
| 46 05 | 25.40 | 100 |
| 47 10 | 25.15 | 200 |
| 48 04 | 24.10 | 300 |
| 49 10 | 23.15 | 400 |
| 50 10 | 22.45 | 500 |
| 51 10 | 22.15 | 600 |
| 52 08 | 21.25 | 700 |
| 53 10 | 20.35 | 800 |
| 54 10 | 19.45 | 900 |
| 55 15 | 18.50 | 1000 |
| 56 21 | 18.00 | 1100 |
| 57 30 | 17.04 | 1200 |
| 58 40 | 16.30 | 1300 |
| 59 50 | 15.20 | 1400 |
| 1 01 05 | 14.02 | 1500 |
| 02 20 | 13 05 | 1600 |
| 03 30 | 12.50 | 1700 |
| 04 50 | 10.20 | 1800 |
| 05 16 | 1.08.50 | 1900 |
| | | 2000 |
| | | 2100 |
| | | 2200 |
| | | 2300 |
| | | 2400 |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | 20 | 1887 | | |
| 300 | 21 | 144 | | |
| 400 | 149 | 203 | | |
| 500 | 44 | 46 | | |
| 600 | 1887 | | | |
| 700 | 2553 | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 21479 By Date August 7th 1890.

Sigsbee Machine. #2 Reel.

Turns 1995 Cor. + 10.2 Depth 2147 fms

Shot or Lead 35 lbs.

Bottom

Bottom temperature

No. of Thermometer 63902 Cor. -

Corrected temperature 35°

Air 48 Surface 49 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

8.06.00

52.50

0

57.48

100

67.20

200

30 40

300

50.5

400

49.25

500

48.50

600

48.00

700

47.20

800

46.30

900

45.45

1000

44.55

1100

44.05

1200

43.20

1300

42.25

1400

41.30

1500

40.30

1600

39.35

1700

38.30

1800

37.30

1900

8.35.00

8.36.30

1995

2000

2100

2200

2300

2400

4440
 1995
 2445
 45
 220
 68
 152
 1995
 2147

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2480 Key Date Aug 7th 1890

Sigsbee Machine. 2 Reel.

Turns 1903 Cor. + 153 Depth 2053 fms

Shot or lead 60 lbs.

Bottom bu. oz.

Bottom temperature 35.0

No. of Thermometer 63902 Cor. -

Corrected temperature 35.0

Air 49 ° Surface 50 ° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| | | |
|-------|-------|------|
| 12 45 | 55 45 | 0 |
| 13 40 | 55 15 | 100 |
| 14 30 | 54 40 | 200 |
| 15 20 | 54 05 | 300 |
| 16 15 | 53 05 | 400 |
| 17 10 | 51 35 | 500 |
| 18 05 | 50 55 | 600 |
| 19 03 | 50 05 | 700 |
| 20 07 | 49 15 | 800 |
| 21 17 | 48 35 | 900 |
| 22 15 | 47 40 | 1000 |
| 23 20 | 46 45 | 1100 |
| 24 25 | 45 55 | 1200 |
| 25 37 | 45 05 | 1300 |
| 26 47 | 44 05 | 1400 |
| 28 00 | 43 00 | 1500 |
| 29 20 | 41 50 | 1600 |
| 30 35 | 40 50 | 1700 |
| 31 55 | 39 00 | 1800 |
| 33 05 | 38 00 | 1900 |
| 33 10 | 33 25 | 2000 |
| | | 2100 |
| | | 2200 |
| | | 2300 |
| | | 2400 |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. *2481* Key Date *Aug 15th 1890*
Tanner Machine. - Reel. -

Turns *25* Cor. + *0* Depth *25 fms*

~~Shot or lead~~ *28 lbs.*

Bottom *fine gy S*

Bottom temperature

No. of Thermometer

Cor.

Corrected temperature

Air *50*

Surface *54*

Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| <i>6.56 10</i> | <i>6.37 10</i> | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

85.13
662.

No. 3310 *LV* Date Aug 13th 1890

Tanner Machine. Reel.

Turns 57 Cor. + 1 Depth 58 fms

Shot or lead 28 lbs.

Bottom fine dk S + M

Bottom temperature 41.5°

No. of Thermometer 63902 Cor. -

Corrected temperature 41.5

Air 50° Surface 54° Drift. *7/16 N 1/4 E*

Trawl or dredge or tangles small beam

SOUNDING WIRE.

DREDGE ROPE.

| DOWN. | UP. | TURNS. | DREDGE ROPE. | |
|---------|---------|--------|--------------|---------|
| | | | DOWN. | UP. |
| 7 07 25 | 09 55 | 0 | 7 14 30 | 37 53 |
| 08 10 | 7 18 12 | 100 | 18 20 | 37 05 |
| | | 200 | 20 10 | 7 35 00 |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

124 Hermit Crabs, Crabs, Shells,
 About 4 kinds of Shrimps
 Sea Anemones
 3 kinds Star fish Alligator fish
 Flounders 2 S. Kats
 Sculpin Holothurians

167

No. 2482 *Hyd.* Date *Aug 15th 90*
Tanner Machine. Reel.

Turns *77* Cor. + *2* Depth *79 fms*

~~Shot or lead~~ *28 lbs.*

Bottom *fine str. S. sh. M.*

Bottom temperature *41°*

No. of Thermometer *63902* Cor. -

Corrected temperature *41°*

Air *50°* Surface *54°* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|----------------|----------------|--------|-------|-----|
| <i>7.46.05</i> | <i>48.50</i> | 0 | | |
| <i>47.00</i> | <i>7.47.05</i> | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1567.

No. 2483 *Hy* Date Aug 15 1890
Tanner Machine. - Reel.

Turns 93 Cor. + 2 Depth 95 fms
 Shot or lead 28 lbs.

Bottom fine ~~dk.~~ S + M

Bottom temperature 40.8°

No. of Thermometer 63902 Cor. -

Corrected temperature 40.8°

Air 50° Surface 54 Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 7 58.05 | 8 00.20 | 0 | | |
| 59.10 | 7 59.15 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

17.07.
567.

No. 2484 Hyd Date August 15th 1890.
Tanner Machine. - Reel.

Turns 115 Cor. + 3 Depth 118 fms.

Shot or lead 28 lbs.

Bottom fine s. br. M.

Bottom temperature 41.6

No. of Thermometer 63902 Cor. -

Corrected temperature 41.6

Air 50° Surface 54° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 8.06.00 | 8.13.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2485 Hy^d Date August 15th 1890.

Tanner Machine. - Reel.

Turns 52 Cor. + 1 Depth 53 fms.

Shot or lead 28 lbs.

Bottom fine dk. S.

Bottom temperature 42.3

No. of Thermometer 63902 Cor. -

Corrected temperature 42.3

Air 50° Surface 54° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

8.18.00

8.23.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Put over 8 handlines over starboard side at 8.24. Sw at 8.41

Catch: 9 leadfish

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod SERIAL TEMPERATURE Measurements.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|---------|--------------------|------|------------|
| 25 | 7 fbs. | Minim ^m | 27 | <u>mi</u> |
| 50 | 14 fbs. | Maxim ^m | 32 | <u>mi</u> |
| 100 | 11 fbs. | Average. | 29 | <u>mi</u> |
| 200 | | | | |
| 300 | 4 | Males. | 5 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

607.
No. 2

No. 2486 Hy^a Date August 15th 1890.

Ganner Machine. — Reel.

Turns 22 Cor. + — Depth 22 fms.

Shot or lead 28 lbs.

Bottom rd. & bk. S.

Bottom temperature 45.8

No. of Thermometer 63902 Cor. —

Corrected temperature 45.8

Air 56° Surface 54° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | TURNS. | DOWN. | UP. |
| 8.50.00 | 8.54.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

8 Hand lines over port side at 8.55.
 In at 9.05.
 Catch: — 10 Cod fish.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod SERIAL TEMPERATURE *Measurements*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|------------------------------|--------------|--------|---------------|
| 25 | 8 fbs. Minimum ^m | | 27 | 27 |
| 50 | 14 fbs. Maximum ^m | | 33 | 33 |
| 100 | 10 fbs. Average | | 29 1/4 | 29 |
| 200 | | | | |
| 300 | 7 Males. | | 3 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567

No. 2487 Hyd Date August 15th 1890.
 Tanner Machine. — Reel.

Turns 70 Cor. + 1 Depth 71 fms.

Shot or lead 28 lbs.

Bottom fine. S. & M.

Bottom temperature 41.3

No. of Thermometer 63902 Cor. —

Corrected temperature 41.3

Air 56° Surface 52° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 9.21.00 | 9.26.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567.

No. 2488 Hy^d Date August 15th 1890.
 Tanner Machine. — Reel.

Turns 96 Cor. + 3 Depth 99 fms.

Shot or lead 28 lbs.

Bottom fine s. & M.

Bottom temperature 40.5

No. of Thermometer 63902 Cor. —

Corrected temperature 40.5

Air 56° Surface 52° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.36.00 9.41.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3311 *DS* Date August 15th 1890.
Tanner Machine. — Reel.

Turns 83 Cor. + 2 Depth 85 fms.

Shot or lead 28 lbs.

Bottom gn. M.

Bottom temperature 41°

No. of Thermometer 63902 Cor. —

Corrected temperature 41°

Air 56° Surface 52° Drift, ^{1 minute} E N E 1/2 E (way)

Trawl or dredge or tangles Small beam —

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| | | | | |
|---------|---------|------|----------|----------|
| 9.48.00 | 9.54.00 | 0 | 9.55.00 | 23.00 |
| | | 100 | | |
| | | 200 | 10.04.00 | 10.16.00 |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|----------|-------------------------------------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | Brachipods. | | | |
| 1000 | Small Fishes. | | | |
| 1100 | Star fishes. | | | |
| REMARKS. | | | | |
| | Shrimps. | | | |
| | Ophiurans. | | | |
| | Sea Urchins. | | | |
| | Small Crabs. | | | |
| | Hermit Crabs in shells. | | | |
| | Many kinds shells. (large & small). | | | |
| | Sea Anemones. | | | |
| | Rock Cod. | | | |
| | Sea Herring. | | | |
| | Bryozoa. | | | |
| | Sea Squid. | | | |
| | Small Worms. | | | |
| | Blunders. | | | |
| | Alligator fish. | | | |

587.

No. 2489 Hy^d. Date August 15th 1890.
 Tanner Machine. - Reel

Turns 65 Cor. + 1 Depth 66 fms.

Shot or lead 28 lbs.

Bottom fne. ~~dk~~ S. M.

Bottom temperature 41.2

No. of Thermometer 63902 Cor. -

Corrected temperature 41.3

Air 56° Surface 56° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|------------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 10. 21. 00 | 10. 24. 00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3312 Dr Date August 15th 1890.
Tanner Machine. - Reel.

Turns 44 Cor. + 1 Depth 45 fms.

Shot or lead 28-lbs.

Bottom fine s. & M.

Bottom temperature 43-

No. of Thermometer 63902 Cor. -

Corrected temperature 43°

Air 57° Surface 55° Drift. 1/4 mi S.W.

Trawl or dredge or tangles Small beam.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10. 37.00

10. 41.00

0

10. 53.00

28.00

100

200

58.00

11. 20.00

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

10 David lines over port side at 10.48.
In at 10.55
Catch: - Nil.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1 Skate.
 few Crabs, Ophiurans
 Shrimps, Star fishes.
 Alligator fish. Red Pen.
 Liches.

Note. Trawl not came to
 surface over lead line.

11.30
567

No. 2490 Hye Date August 15th 1890.
Tanner Machine. — Reel.

Turns 37 Cor. + 0 Depth 37 fms.

Shot or lead 28 lbs.

Bottom G. Sh. & O.

Bottom temperature 44. ³/₁₀

No. of Thermometer 63902 Cor. -

Corrected temperature 44. ³/₁₀

Air 57° Surface 55° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 11.31.00 | 11.34.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

10 fath lines over port side at 11.35.
In at 11.45
Catch: — N.Y.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1750
507.
188

No. 2491 Hy^d Date August 15th 1890.

Tanner Machine. - Reel.

Turns 40 Cor. + 0 Depth 40 fms.

Shot or lead 28 lbs.

Bottom fine S.

Bottom temperature 44.5

No. of Thermometer 63902 Cor. -

Corrected temperature 44.5

Air 60° Surface 55° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|-------|-----|--------|-------|-----|
|-------|-----|--------|-------|-----|

| | | | | |
|----------|----------|---|--|--|
| 11.56.00 | 11.59.00 | 0 | | |
|----------|----------|---|--|--|

| | | |
|------|--|--|
| 100 | | |
| 200 | | |
| 300 | | |
| 400 | | |
| 500 | | |
| 600 | | |
| 700 | | |
| 800 | | |
| 900 | | |
| 1000 | | |
| 1100 | | |
| 1200 | | |
| 1300 | | |
| 1400 | | |
| 1500 | | |
| 1600 | | |
| 1700 | | |
| 1800 | | |
| 1900 | | |
| 2000 | | |
| 2100 | | |
| 2200 | | |
| 2300 | | |
| 2400 | | |

Hand lines over port side at 12.05 M.
In at 12.15
Catch:- 1 Halibut 6 lbs. 24 in.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

867.

No. 2492 Key Date August 15. 1890

Tanner Machine. Reel.

Turns 56 Cor. + 1 Depth 57 fms

Shot or lead 28 lbs

Bottom bk S. + G.

Bottom temperature 42.5

No. of Thermometer 63902 Cor. -

Corrected temperature 42.5

Air 60° Surface 55 Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | TURNS. | DOWN. | UP. |
| 12.26.00 | 12.27.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

Handline over port side at 12.28
 In at 12.38
 Cured 1 Codfish 10 lbs. 30 in Male

8

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3313 *W* Date Aug 15 1890

Tanner Machine. Reel.

Turns 67 Cor. + Depth 68 fms

Shot or lead 28 lbs

Bottom fine bk. s

Bottom temperature 42.7°

No. of Thermometer 63902 Cor. -

Corrected temperature 42.7°

Air 55° Surface 55° Drift. 3 West

Trawl or dredge or tangles Small beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| | | | | |
|----------|----------|------|----------|---------|
| 12.57.00 | 12.53.00 | 0 | 12.53.30 | 26.00 |
| | | 100 | 56.30 | 24.00 |
| | | 200 | 1.01.40 | 20.30 |
| | | 210 | | |
| | | 300 | 02.00 | 1.20.00 |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1 Bu. Ophiurans
 1 Lt Shrimps 4 Species
 1/2 doz Flounders 3
 1 Lt Shells 1/2 doz 1/2 doz
 1 Pt Crabs
 alligator fish

No. 2493 Key Date Aug 15, 1890

Sanner Machine. Reel.

Turns 100. Cor. + 3 Depth 103 fms

Shot or lead 28 lb

Bottom fine bk s

Bottom temperature 40.9

No. of Thermometer 63902 Cor. -

Corrected temperature 40.9

Air 55° Surface 55° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

P.M.

1.35.00 1.38.17

0

36.00 36.05

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2494 *Box* Date Aug 15 1890

Tanner Machine. Reel.

Turns 94 Cor. + 3 Depth 97 fms

Shot or lead 28 lb

Bottom bk s

Bottom temperature 40.9

No. of Thermometer 63902 Cor. -

Corrected temperature 40.9

Air 55 Surface 55 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| | | | | |
|-------------|---------|------|--|--|
| <i>P.M.</i> | | | | |
| 1. 48.40 | 51.00 | 0 | | |
| 49.30 | 1 49.30 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567
JEB

No. 3314 ^{SV} Date Aug 15 1890

Tanner Machine. Reel.

Turns 72 Cor. + 2 Depth 74 fms

Shot or lead 28 lb

Bottom bk S

Bottom temperature 42.5

No. of Thermometer 63902 Cor. -

Corrected temperature 42.5

Air 55° Surface 55° Drift. 1/1' S x 1/4' N

Trawl or dredge or tangles Small Beam

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| pm | pm | | pm | |
| 2 02 00 | 04.10 | 0 | 2.05.10 | 37.00 |
| 03.00 | 2.03.05 | 100 | 09.55 | 35.00 |
| | | 200 | 15.00 | 31.30 |
| | | 300 | 16.10 | 2.31.00 |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

2 No Shrimps 3 kinds
 Sea Pens, Many Large
 1 Basket Star
 Sea Urchins Ophiurans
 Serpent Stars
 1 Large Worm. 2 Hornedus

No. *2495* Date *Aug. 15 1890*
Tanner Machine. — Reel.

Turns *75* Cor. + *2* Depth *77 fms*

Shot or lead *28 lb*

Bottom *bk S. bk Sh*

Bottom temperature *40*

No. of Thermometer *63902* Cor. —

Corrected temperature *40°*

Air *56* Surface *53* Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|-------------------|----------------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| <i>PM 2 51 40</i> | <i>53 30</i> | 0 | | |
| <i>52 20</i> | <i>2 52 25</i> | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

~~2900~~

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

E.B.
567.

No. 2496 *Hy* Date *Aug 15-1890*
Tanner Machine. - Reel.

Turns *57* Cor. + *1* Depth *58 fms*

Shot or lead *28 lb*

Bottom *bk. s. g. bk. sh*

Bottom temperature *42.1°*

No. of Thermometer *63902* Cor. -

Corrected temperature *42.1°*

Air *36°* Surface *55°* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*Put 9 landlines over station and pick up at 3.18
 In at 3.30
 back. m.*

3.16 10

17.55

0

16.50

16.65

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2497dy Date Aug. 15. 1890
Tanner Machine. — Reel.

Turns 317 Cor. + 5 Depth 322 fms

Shot or lead 28 lb

Bottom bk. S

Bottom temperature 38.3°

No. of Thermometer 63902 Cor. —

Corrected temperature 38.3°

Air 56° Surface 55° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3 52.00 02.20
3 54.20 4 00.30
55.10 58.00
56 15 3.56.20

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

MS. 8.
567.
J.E. 13

No. 3315 *25* Date August 15th 1890
Tanner Machine. — Reel.

Turns 272 Cor. + 5 Depth 277 fms.
~~Shot or lead~~ 28 lbs.

Bottom gn. M. & S.
Bottom temperature 38.5

No. of Thermometer 63902 Cor. -
Corrected temperature 38.5

Air 56° Surface 55° Drift. 1/2° S 8 1/2° E

Trawl or dredge or tangles *small beaver*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| 4.24.00 | 4.30.00 | 0 | 4.29.00 | 5.16.00 |
| | | 400 | 44.00 | 4.47.00 |
| | | 400 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

2 new Sponges. Cup Corals.
 few sps. Worms. Shrimps.
 Ascidians. White Polyps like
 Anthomastus. Sea Urchins.

567.

No. 2498 Key Date Aug 15 1890
 Tanner Machine. Reel.

Turns 145 Cor. + 3 Depth 148 fms

Shot or lead 28 lbs

Bottom bk S.

Bottom temperature Not taken

No. of Thermometer — Cor. —

Corrected temperature —

Air 53° Surface 54° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 5-18 00 | 5-21 00 | 0 | | |
| 5-19 00 | 20 30 | 100 | | |
| 19 30 | 5-19 35 | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

NO. 3.

No. 2499 ^{Hyd} Date August 15th 1890.
 Tanner Machine. — Reel.

Turns 37 Cor. + — Depth 37 fms.
 Shot or lead 28 lbs.

Bottom bk. s.

Bottom temperature 44.5

No. of Thermometer 63902 Cor. —

Corrected temperature 44.5

Air 53° Surface 54° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 5.36.00 | 5.38.30 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 23-00 Key Date Aug 16. 1896

Tanner Machine. Reel.

Turns 51 Cor. + 1 Depth 52 fms

Shot or lead 28 lbs

Bottom bk S. G.

Bottom temperature 44°

No. of Thermometer 63902 Cor. -

Corrected temperature 44°

Air 62° Surface 53 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

| | | | | |
|---------|---------|------|--|--|
| 5-34.30 | 5-36.30 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

Put to handline over port side at 5-35-
In at 5-55.
Catch: Nit.

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3316 *52* Date Aug 16. 189

Tanner Machine. Reel.

Turns 304 Cor. + 5

Depth 309 fms

Shot or lead 28 lbs

Bottom bk. s. + g.

Bottom temperature 38.2°

No. of Thermometer 63902 Cor. -

Corrected temperature 38.2

Air 62° Surface 56° Drift. S. 71. 4 N. 1/2 W.

Trawl or dredge or tangles Small Beam

SOUNDING WIRE.

DREDGE ROPE.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|---------|---------|---------|---------|-------|
| 6 16 35 | 26.00 | 0 | 6 25.00 | 21.10 |
| 17 30 | 24.00 | 100 | 28.50 | 18.12 |
| 18 25 | 21.15 | 200 | 32.40 | 15.10 |
| 19 10 | 19.15 | 300 | 35.30 | 11.15 |
| 19 12 | 6 19.14 | 304 400 | 38.15 | 08.00 |
| | | 500 | 41.20 | 04.50 |
| | | 600 | 45.15 | 01.50 |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

124. Red Carpet Stars.
 4 species of Sponges
 Antedon - crinoids
 Purple Holothurians
 Sea urchins. (Schizaster)

No. 2301 Key Date Aug. 16. 1890

Tanner Machine. Reel.

Turns 175 Cor. + 4 Depth 179 fms

Shot or lead 28 lbs

Bottom bk. s.

Bottom temperature 39

No. of Thermometer 63902 Cor. -

Corrected temperature 39°

Air 59° Surface 54° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|-----------|-----------|--------|-------|-----|
| 7. 34. 00 | 39. 10 | 0 | | |
| 35. 00 | 37. 20 | 100 | | |
| 36. 00 | 7. 36. 10 | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2502 *dy* Date Aug. 16. 1890

Tanner Machine. Reel.

Turns 49 Cor. + 1 Depth 50 fms

Shot or lead 28 lb

Bottom bk. s

Bottom temperature 43.5

No. of Thermometer 63902 Cor. -

Corrected temperature 43.5

Air 60 Surface 52 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5m

7 50.50 7 52.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Put over 9 handline over port side at 7.52

In at 8.03.

Lead - 1 Halibut - 6 1/2 #2. 26-40

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567.

No. 2503. *Hyd* Date August 16th 1890.

Tanner Machine. - Reel.

Turns 22 Cor. + - Depth 22 fms.

Shot or lead 28 lbs.

Bottom Sh.

Bottom temperature 44.1

No. of Thermometer 63902 Cor. -

Corrected temperature 44.1

Air 60° Surface 54° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | TURNS. | DOWN. | UP. |
| 8.34.00 | 8.36.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

9 Hand lines over port side at 8.38.

Caught: 13 Cod fish.

2 Halibut.

8 lbs.
15 lbs.

27
33

44
44

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

Cod SERIAL TEMPERATURE. *Measurements*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|---|--------------|------|------------|
| 25 | 7 fbs. Minim ^m | | 26 | <u>iii</u> |
| 50 | 15 ² fbs. Maxim ^m | | 33 | <u>iii</u> |
| 100 | 10 fbs. Average. | | 29 | <u>iii</u> |
| 200 | | | | |
| 300 | 7 | Males. | 6 | Females. |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2504 H₄ Date August 16th 1890.

Machine. - Reel.

Tanner

Turns 311 Cor. + 5 Depth 316 fms.

Shot or lead 28 lbs.

Bottom gn. M.

Bottom temperature 38.2

No. of Thermometer 63902 Cor. -

Corrected temperature 38.2

Air 60° Surface 52° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.28.00 9.34.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

597.

No. 3317 *Dr* Date August 16th 1890.
Tanner Machine. — Reel.

Turns 161 Cor. + 4 Depth 165 fms.
 Shot or lead 28 lbs.

Bottom *crs. S. + G. + R*
 Bottom temperature 39.5

No. of Thermometer 63902 Cor. —
 Corrected temperature 39.5

Air 60° Surface 54° Drift *S. 1/4 W.*

Trawl or dredge or tangles *Small beam*

| <i>A.M.</i> SOUNDING WIRE. | | TURNS. | <i>P.M.</i> DREDGE ROPE. | |
|----------------------------|----------|--------|--------------------------|----------|
| DOWN. | UP. | | DOWN. | UP. |
| 9.58.00 | 10.03.00 | 0 | 10.04.00 | 26.00 |
| | | 100 | 12.00 | 10.17.30 |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

pol sps. Sponges.
 Worms in tubes.
 Rock Cod.
 Ophiurans.
 Prawns.
 Shells.

Sea Urchins.
 Star fishes.
 Hydroids.
 Bryozoa.

1158

No. 2505 Hyd. Date August 16th 1890.

Tanner Machine. — Reel.

Turns 36 Cor. + — Depth 36 fms.

Shot or lead 28 lbs.

Bottom fine sd. & bk. s.

Bottom temperature 46.0

No. of Thermometer 63902 Cor. —

Corrected temperature 46.0

Air 60° Surface 54° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.56.00

10.59.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

10 hand lines over port side at 11.00

In at 11.07.

Caught: Nix.

Lines not on bottom.

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

H.F.S.
507

No. 2506 Hy^d Date August 16th 1890.

Tanner Machine. — Reel.

Turns 96 Cor. + 1 Depth 97 fms.

Shot or lead 28 lbs.

Bottom bk. S. sh. & S.

Bottom temperature 40.9

No. of Thermometer 63902 Cor. —

Corrected temperature 40.9

Air 60° Surface 54° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 11.33.00 | 11.37.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2307 Key Date Aug 16 1890
 Tanner Machine. - Reel.

Turns 22 Cor. + 0 Depth 22 fms

Shot or lead 28 lb.

Bottom gy. S

Bottom temperature 46

No. of Thermometer 63902 Cor. -

Corrected temperature 46°

Air 60° Surface 54° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

P.M.

P.M.

12 42 25

12 13 25

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Put 9 handlines over port side at 12.13
 on at 12.30
 Catch: 6 Codfish

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Lead measurements -
SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------------|--------------|-------------|------------|
| 25 | <i>Max</i> | <i>15 lb</i> | <i>33</i> | <i>in</i> |
| 50 | <i>Min</i> | <i>8 "</i> | <i>27</i> | <i>"</i> |
| 100 | <i>Arg.</i> | <i>10 "</i> | <i>30 "</i> | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2508 Key Date Aug. 16. 1890

Tanner Machine. - Reel.

Turns 40 Cor. + 0 Depth 40 fms

Shot or lead 28 lbs

Bottom R + G

Bottom temperature 44°

No. of Thermometer 63902 Cor. -

Corrected temperature 44°

Air 54° Surface 53° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

PM

12 53.00 12 54.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Pull over 8 handlines at 12.58- post side
Swat 105-
Reel: not

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2509 Key Date Aug 16 1890
 Tanner Machine. Reel.

Turns 162 Cor. + 4 Depth 166 fms

Shot or lead 28

Bottom ~~ff~~ dk M

Bottom temperature 39°

No. of Thermometer 63902 Cor. -

Corrected temperature 39°

Air 59° Surface 52° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| P.M. 1.13.00 | 18 10 | 0 | | |
| 14 10 | 16 00 | 100 | | |
| 14 30 | 14 40 | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2510 Hy Date Aug 16. 1890

Tanner Machine. Reel.

Turns 54 Cor. + 1 Depth 55 fms

Shot or lead 28 lbs

Bottom br. g

Bottom temperature 43°

No. of Thermometer 63902 Cor. -

Corrected temperature 43°

Air 59° Surface 52 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|---------|---------|--------|-------|-----|
| 1.50 10 | 1.52.30 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

613
597

No. 25-11 Key Date Aug 16 1890
Tanner Machine. Reel.

Turns 58 Cor. + 1 Depth 59 fms

Shot or lead 28 lb

Bottom bk. G

Bottom temperature 42°

No. of Thermometer 63902 Cor. -

Corrected temperature 42°

Air 59° Surface 52° Drift.

Trawl or dredge or tangles

P.M.

2.03.30 2.04.10

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

813
107

No. 2512 Key Date Aug. 16. 1890
Tanner Machine. Reel.

Turns 103 Cor. + 3 Depth 106 fms

Shot or lead 28 lb

Bottom bk. s. & g.

Bottom temperature 38.8

No. of Thermometer 65902 Cor. -

Corrected temperature 38.8

Air 59' Surface 52' Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

P.M.

2.17.55 2.20.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 3318 *Dr* Date Aug 16 1898

Tanner Machine. Reel.

Turns 60 Cor. + 1 Depth 61 fms

Shot or lead 28 lbs

Bottom bk s s. brk sh.

Bottom temperature 42°

No. of Thermometer 63902 Cor. -

Corrected temperature 42°

Air 54 Surface 62 Drift. 1 mile ESE

Trawl or dredge or tangles Small Beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|-------------|---------|----------------|-------------|---------|
| <i>P.M.</i> | | | <i>P.M.</i> | |
| 2 52 20 | 3 55 10 | 0 | 2 55 00 | 2 55 25 |
| | | 100 | 59 30 | 2 2.50 |
| | | 500 | 3 02.30 | 3 20.20 |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

Put over 9 handlines, starboard side at 3.27

Shot 3 34

Catch: nil.

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

2 species Star fish, 2 specimens
 Serpint Stars
 Sea Urchin
 Saw few shrimps
 Few scallop shells

11.00

No. 2513 *Hy^a* Date *August 16th 1890.*
Tanner Machine. — Reel.

Turns *46* Cor. + *1* Depth *47 fms.*

Shot or lead *28 lbs.*

Bottom *fk. S. & G.*

Bottom temperature *44.1*

No. of Thermometer *63902* Cor. —

Corrected temperature *44.1*

Air *54* Surface *52* Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| <i>4.06.00</i> | <i>4.09.00</i> | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

*10 Hand line over port side at 4.10.
 In at 4.25
 Caught: — Mix.*

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. *2514 Key* Date *Aug 18. 1890*

Tanner Machine. — Reel.

Turns *100* Cor. + *0* Depth *103 fms*

Shot or lead *28 lb*

Bottom *bk m*

Bottom temperature —

No. of Thermometer — Cor.

Corrected temperature —

Air *50* ° Surface *52* ° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

pm *9* *32.15* *34.50*
33.10 *9.33.15*

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2515 Key Date Aug. 18 1890

Tanner Machine. - Reel.

Turns 106 Cor. + 3 Depth 109 fm

Shot or lead 28 lb

Bottom dk. gn. M

Bottom temperature 40.3°

No. of Thermometer 63902 Cor. -

Corrected temperature 40.3

Air 49° Surface 50° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 9 55.20 | 57.40 | 0 | | |
| 0 56.20 | 9 56.21 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. *2516* Date *Aug 18 1890*
Tanner Machine. Reel.
 Turns *61* Cor. + *1* Depth *62 fms*
 Shot or lead *28 lb*
 Bottom *bk s. m*
 Bottom temperature *did not require*
 No. of Thermometer *63902* Cor. *—*
 Corrected temperature *—*
 Air *49°* Surface *50°* Drift.
 Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

Am 10 25.25 *fm* 26.50

26.10 10.26.12

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 25-17 Key^d Date Aug. 18th 1890.
 Tanner Machine. Reel

Turns 53 Cor. + 1 Depth 54 fms

Shot or lead 28 lbs.

Bottom S. + G.

Bottom temperature 43.1°

No. of Thermometer 63912 Cor. - 0.1

Corrected temperature 43°

Air 49° Surface 48° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10.57.00 59.25

57.40 10.57.30

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Put handline 10 over sthd side 11 00
 In at 11.18
 Collected: m

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2518 *Key* Date Aug 18. 1890

Tanner Machine. - Reel.

Turns 37 Cor. + 1 Depth 58 fms

Shot or lead 28 lbs

Bottom bk. S. & M

Bottom temperature did not register

No. of Thermometer 63912 Cor. -

Corrected temperature -

Air 49° Surface 48° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|----------|----------|--------|-------|-----|
| 11.50.30 | 52.30 | 0 | | |
| 51.10 | 11.57.12 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2519 Hy^e Date August 16th 1890.

Tanner Machine. — Reel.

Turns 68 Cor. + 1 Depth 69 fms.

Shot or lead 28 lbs.

Bottom fh. S.

Bottom temperature 40.° 0

No. of Thermometer 63912 Cor. —

Corrected temperature 40.° 0

Air 49° Surface 50° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 12.21.00 | 12.26.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1702
907.

No. 2520 Hy^a. Date August 18th 1890.

Sigsbee Machine. #2 Reel.

Turns 360 Cor. + 34 Depth 394 fms.

Shot or lead 38 lbs.

Bottom gn. M.

Bottom temperature 38.2

No. of Thermometer 52732 Cor. -

Corrected temperature 38.2

Air 51° Surface 52° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | | DREDGE ROPE. | |
|----------------|-----------|--------|--------------|-----|
| DOWN. | UP. | TURNS. | DOWN. | UP. |
| 1. 08. 00 | 1. 18. 00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|-------------|
| 25 | | | | 4440 |
| 50 | | | | 360 |
| 100 | | | | <u>4080</u> |
| 200 | | | | 220 |
| 300 | | | | 186 |
| 400 | | | | <u>34</u> |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

W. S.
567.

No. *3319* *LI* Date *August 18th 1890.*
Tanner Machine. — Reel.

Turns *58* Cor. + *1* Depth *59 fms.*

Shot or lead *28 lbs.*

Bottom *bk. S.*

Bottom temperature *40.5*

No. of Thermometer *63912* Cor. —

Corrected temperature *40.5*

Air *51°* Surface *52°* Drift, *1 mi. S. E. x E.*

Trawl or dredge or tangles *large beam*

| <i>P.M.</i> SOUNDING WIRE. | | TURNS. | <i>P.M.</i> DREDGE ROPE. | |
|----------------------------|-----------------|--------|--------------------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>1. 42.00</i> | <i>1. 46.00</i> | 0 | <i>1. 38.00</i> | <i>2.00.00</i> |
| | | 100 | <i>47.00</i> | <i>1.53.00</i> |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

Net came up **REMARKS.** badly torn.
 Corals. - large quantity! Bryozoa.
 Hydroids. Shrimps. Shells
 Small Fishes. Star fishes.
 Worms in tubes. Hermit Crabs.
 Small Crabs. Sponges.

1757

No. 3320 *Dr* Date August 18th 1890.
Tanner Machine. — Reel.

Turns 58 Cor. + 1 Depth 59 fms.
 Shot or lead 28 lbs.

Bottom *fk. S. & Co.*

Bottom temperature 40.^{0.8}

No. of Thermometer 63912 Cor. —

Corrected temperature 40.⁸

Air 51° Surface 52° Drift. $\frac{8}{10}$ ^m S.E. x E.

~~Trawl or dredge or tangles~~

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----------|--------|--------------|-----------|
| DOWN. | UP. | | DOWN. | UP. |
| 1. 32. 00 | 1. 36. 00 | 0 | 2. 03. 00 | 24. 00 |
| | | 100 | 2. 08. 00 | 2. 20. 00 |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

Sponges.

Sand dollars.

Star fishes.

Bryzoa.

Worms in tubes.

Corals.

567.

No. 2521 Hy¹ Date August 18th 1890.

Tanner Machine. — Reel.

Turns 4¹/₂ Cor. + 1 Depth 43 fms.

Shot or lead 28 lbs.

Bottom crs. bk. s.

Bottom temperature 42.⁵

No. of Thermometer 63912 Cor. -0.1

Corrected temperature 42.⁴

Air 50° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2.56.00 2.59.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

10 fms. line over side at 3.00
 In at 3.15
 Caught 5 Cod fish.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod SERIAL TEMPERATURE *Measurements*

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|--------|--------------|------|------------|
| 25 | 3 lbs | Minimum | 19½ | min |
| 50 | 11 lbs | Maximum | 30 | min |
| 100 | 7½ lbs | Average | 25½ | min |
| 200 | | | | |
| 300 | 3 | Males | 2 | Females |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567.
J.E. 13.

No. 3321 Date August 18th 1890.
Tanner Machine. — Reel.

Turns 53 Cor. + 1 Depth 54 fms.

Shot or lead 28 lbs.

Bottom Sk. M.

Bottom temperature 41.5

No. of Thermometer 63912 Cor. —

Corrected temperature 41.5

Air 50° Surface 50° Drift. —

Trawl or dredge or tangles Large Beam

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-------|
| DOWN. | UP. | | DOWN. | UP. |
| 3.55.00 | 3.58.00 | 0 | 4.13.30 | 31.10 |
| | | 100 | 18.20 | 25.10 |
| | | 200 | 19.10 | 23.35 |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

10 fms. line over at 4.00.
On at 4.10
Catch: — 1 Achirotes

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

~~Large pieces of coral~~ ~~Colored Sponges~~
 Large Worm tubes, shells,
 Red Rock fish
 Ophiurans Starfish
 Br. Sponge.

567.

No. *2522* Date *Aug 18th 1890*
Tanner Machine. Reel.

Turns *32* Cor. + *0* Depth *32 fms*

Shot or lead *28 lb*

Bottom *bk. s.*

Bottom temperature *44.0*

No. of Thermometer *63912* Cor. *-0.1*

Corrected temperature *43.9*

Air *51°* Surface *50°* Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| <i>5 01.50</i> | <i>5 03.30</i> | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

613
867.

No. 25234 Date Aug 18 1896
Tanner Machine. - Reel.

Turns 37 Cor. + 0 Depth 37 fms

Shot or lead 28 lbs

Bottom bk. S

Bottom temperature 43.0

No. of Thermometer 63912 Cor. -0.1

Corrected temperature 42.9

Air 51° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5:52

5-51.00

52.00

0

51.30

5-51.31

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Pack over 9 handlines on starboard side at 5:52
Sw at 6.05
Calch. W is.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE,

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

86B
567.

No. 3322 *Dr* Date *Aug 18th 1896*
Tanner Machine. Reel.

Turns 33⁻ Cor. + 0 Depth 35 fms

Shot or lead 28 lbs

Bottom *br. s*

Bottom temperature 42.5⁻

No. of Thermometer 63912 Cor. -0.1

Corrected temperature 42.4⁻

Air 51° Surface 50° Drift. *S 1/2 W 1/2 m*

Trawl or dredge or tangles *Large Beam*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|---------------------|---------|--------|--------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>P.M.</i> 6.45-25 | 6.46.45 | 0 | 6.58.40 | 17.15 |
| | | 100 | 7 04.00 | 7 14.00 |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

*Put 8 handlines over side at 6.46
 start 6.51
 catch: nil*

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

Many scallops

REMARKS.

Rock Cod Sculpin 3 kinds,
 Shrimps 5 kinds,
 Hermit Crabs, Ophiurians,
 Sponges 4 kinds, Basket Star,
 Large Horn Cams, 1 Squad,
 Hydroids, 1 Large Octopus,
 Bryzoa 1 or 2 kinds

No. 2524 Hyd. Date August 18th 1890.

Tanner Machine. — Reel.

Turns 43 Cor. + 1 Depth 44 fms.

~~Shot or lead~~ 28 lbs.

Bottom H. S.

Bottom temperature 41.5

No. of Thermometer 63912 Cor. —

Corrected temperature 41.5

Air 50° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

8.00.00 8.04.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

567.
H.S.

No. 2525 Hyd. Date August 18th 1890.
Tanner Machine. - Reel.

Turns 133 Cor. + 3 Depth 136 fms.

Shot or lead 28 lbs.

Bottom Hk. S. M.

Bottom temperature 39.5

No. of Thermometer 63912 Cor. -

Corrected temperature 39.5

Air 48° Surface 47° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 8.40.00 | 8.45.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

1168.

No. 2526 Hy² Date August 18th 1890-
Sigsbee Machine. #2 Reel.

Turns 480 Cor. + 44 Depth 524 fms.
~~Shot or lead~~ 38 lbs.

Bottom gn. M.

Bottom temperature 37.0

No. of Thermometer 63912 Cor. -

Corrected temperature 37.0

Air 47° Surface 47° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 11.01.00 | 11.17.00 | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | 44.40 | 220 | | |
| 50 | 48.0 | 176 | | |
| 100 | 39.60 | 44 | | |
| 200 | | 48.0 | | |
| 300 | | 52.4 | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2527 Hy. Date August 19th 1891

Tanner Machine. - Reel.

Turns 242 Cor. + 5 Depth 247 fms

Shot or lead 28 lbs

Bottom gn M

Bottom temperature 38.5

No. of Thermometer 63912 Cor. -

Corrected temperature 38.5

Air 115° Surface 45° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| 5 10.30 | 17.55 | 0 | | |
| 11 40 | 16.20 | 100 | | |
| 12 55 | 14.55 | 200 | | |
| 13 20 | 5 14.00 | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

No. 2528 Day? Date August 19th 1898
 Tanner Machine. Reel.

Turns 48 Cor. + 1 Depth 49 fms

Shot or lead 28 lbs

Bottom bk. S + M

Bottom temperature 41.5

No. of Thermometer 63912 Cor. -

Corrected temperature 41.5

Air 45° Surface 45° Drift.

Trawl or dredge or tangles

| SOUNDING WIRE. | | | DREDGE ROPE. | |
|----------------|---------|--------|--------------|-----|
| DOWN. | UP. | TURNS. | DOWN. | UP. |
| 5-40.40 | 42.50 | 0 | | |
| 41 10 | 5-41.15 | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

Put 7 handlines on stbd side at 5-40 A.M.
 Swat 5-55-

Watch: 87 Cordfish

2 Walleyes

8 lb.
 29 in.
 30 1/2 in.

| | | |
|--|------|--|
| | 2500 | |
| | 2600 | |
| | 2700 | |
| | 2800 | |
| | 2900 | |
| | 3000 | |
| | 3100 | |
| | 3200 | |
| | 3300 | |
| | 3400 | |
| | 3500 | |
| | 3600 | |
| | 3700 | |
| | 3800 | |
| | 3900 | |
| | 4000 | |

Lead Measurements
SERIAL TEMPERATURE.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------------------|--------------|------|------------|
| 25 | Max | 14 lbs | 32 | in |
| 50 | Min | 8 " | 27 | " |
| 100 | Arg | 1 1/4 " | 29 | , |
| 200 | | | | |
| 300 | 4 Males 3 Females | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS.

Bassett Soundings -
July 22^d 1890 -

| | |
|-----------|-------------------|
| 9.50 P.M. | 32 fms. gy. S. S. |
| 10.15 " | 30 fms. S. S. |
| 10.45 " | 22 fms. gy. |