

Nº 18.

June 24th 1890.

July 21st 1890.

Dr 3263 to 3302.

Hy^d 2386 to 2445.

2386 - 2445
~~Tanner Reel.~~

~~408 turns on reel.~~

~~Turns -~~

~~Correction~~

~~42 to 72.~~

~~+ 1.~~

~~73 to 94.~~

~~+ 2.~~

~~95 to 157.~~

~~+ 3.~~

~~158 to 195.~~

~~+ 4.~~

~~196 to 357.~~

~~+ 5.~~

~~358 to 408.~~

~~+ 6.~~

615 turns on reel

632 fathoms " "

No. 3263

Date

June 24. 1890

Tanner Machine.

Reel.

Turns 60 Cor. +

Depth

61 fms

Shot or lead

27 lb

Bottom

bk m.

Bottom temperature

39 1/2

No. of Thermometer

63902

Cor. -

Corrected temperature

39.5

Air 43

Surface 45

Drift. 1' E x N.

Trawl or dredge or tangles

Large Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

P.M.

P.M.

P.M.

P.M.

6.20.40

6.22.10

0

6.26.30

53.50

100

33.00

49.10

200

36.05

6.27.00

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				

Starfish a few
 2 yb Red Prawns. 3 Large Flounders
 a few very small Shrimps
 Pk. Large Shells Corals with Sponges
 a few grey Sea Anemones
 Hermit Crabs.
 12 Large Long Leg Crabs.

REMARKS.

No. 3264 *St* Date June 24th 1890.
Tanner Machine. — Reel.

Turns 40 Cor. + — Depth 40 fms.

Shot or lead 28 lbs.

Bottom crs. S. & G.

Bottom temperature 40.5°

No. of Thermometer 63902 Cor. —

Corrected temperature 40.5

Air 43 Surface 45 Drift. $\frac{1}{2}$ S. E.

Trawl or dredge or tangles large beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

8.21.00	22.55	0	8.39.45	9.02.00
21.25	8.21.33	100	46.40	8.58.30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

9 Hauld twice over pt'd side at 8:20.
 Hauld in at 8:40.
 Catch: — 1 Cod fish.

	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 pk. Star fish. Ascidians.
 1 pk. Sea Anemones.
 1/2 pk. Sand Dollars.
 1 doz. Horn Worm Tubes.
 3 Alligator fish.
 1/2 doz. Blounders.

No. 2386 Hyd - Date June 24th 1890

Tanner Machine. - Reel.

Turns 40 Cor. + - Depth 40 fms.

Shot or lead 28 lbs.

Bottom Hk. G.

Bottom temperature 41.3°

No. of Thermometer 63902 Cor. -

Corrected temperature 41.3°

Air 43° Surface 45° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.43.35

45.00

0

43.50

9.43.55

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. 2387 Hyd. Date June 24th 1890.

Tanner Machine. Reel.

Turns 24 Cor. + - Depth 24 fms.

Shot or lead 28 lbs.

Bottom bk. g.

Bottom temperature 41.4°

No. of Thermometer 63902 Cor. -

Corrected temperature 41.4

Air 42° Surface 44° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10.12.50

16.45

0

15.10

10.15.15

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.

No. 2388 Hyd. Date June 24th 1890

Tanner Machine. — Reel.

Turns 25 Cor. + — Depth 25 fms

Shot or lead 28 lbs.

Bottom crs. S. K. G.

Bottom temperature 41.2°

No. of Thermometer 63902 Cor. —

Corrected temperature 41.2°

Air 43° Surface 44° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11.36.00

37.00

0

36.15

11.36.25

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. 2389864 Date June 25th 1890
 Tanner Machine. Reel.

Turns 45 Cor. + 1 Depth 46 fms

Shot or lead 28 lb

Bottom bk. s.

Bottom temperature 40°

No. of Thermometer 63902 Cor. -

Corrected temperature 40°

Air 42 Surface 44 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
AM DOWN.	AMP.		DOWN.	UP.
1.16.30	17.20	0		
16.45	1.16.46	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	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. 2390 *Key* Date *June 25-98*
Tanner Machine. - Reel. -

Turns 55 Cor. + 1 Depth 56 fms

Shot or lead 28 lb

Bottom bk m + G.

Bottom temperature 39

No. of Thermometer 63902 Cor. -

Corrected temperature 39°

Air 42 Surface 44 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>48.00</i>	<i>40 45</i>	0		
<i>48.45</i>	<i>2.48 47</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.

No. 2391 Hyd. Date June 25th 1890.

Tanner Machine. — Reel.

Turns 52 Cor. + 1 Depth 53 fms.

Shot or lead 25 lbs.

Bottom sh. S. G.

Bottom temperature 38.8°

No. of Thermometer 63702 Cor. —

Corrected temperature 38.8°

Air 42° Surface 45° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

4.15.12

17.50

0

15.20

4.15.45

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. 3265 *Dr* Date June 25th 1890.

Tanner Machine. — Reel.

Turns 38 Cor. + — Depth 38 fms.

Shot or lead 28 lbs.

Bottom bk. G.

Bottom temperature 39.8°

No. of Thermometer 63902 Cor. —

Corrected temperature 39.8

Air 42° Surface 45° Drift. $\frac{8}{10}$ m. $\frac{86}{10}$ S.

Trawl or dredge or tangles large beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

5. 46. 05

47. 45

0

6. 01. 00 27.30

46. 30

5. 46. 40

120
100

06. 45 6.23.15

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 stbd side at 5.50
 In at 5.50
 Catch 2 Cod fish

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod

Measurements

SERIAL TEMPERATURE,

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	min. 15 fbs.		31	^{min} -
50	max. 15 fbs.		32	ⁱⁿ -
100	aver. 15 fbs.		31 1/2	^{aver} -
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 pk. Medusae.

3 sps. Star fish.

3 qts. Sand Dollars.

Few Ophiurans.

2 qts. Hermit Crabs.

Shells. Worms. Shrimps.

Sea Anemones. Sea Urchins.

Hydroids.

4 Flounders

Few Eelgrass fish.

and Sculpins.

No. 3266 *W* Date June 25th 1890.
 Tanner Machine. — Reel.

Turns 24 Cor. + — Depth 24 fms.

Shot or lead 28 lbs.

Bottom *fk. S*

Bottom temperature 42°

No. of Thermometer 63902 Cor. —

Corrected temperature 42°

Air 42° Surface 45° Drift 8 8 1/2 S.

Trawl or dredge or tangles *Large Beam*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7.46.20	47.30	0	8.01.30	27 13
46.40	7.46.45	100	08.15	8.25.00
		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 line over side at 7.48.
 In at 7.58.

Catch: — 1 *Squilla*
 6 *Ad. fish*

	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	Max	19 1/2	32	
50	min	15	31	
100	avg.	10 1/2	24 1/3	
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

2 Bw. Starfish
 1 Rk. Shell
 Ascidiens few Shrimps
 Flounders Sculpin
 Alligator Fish

No. 2392 Key Date June 25/1891
Tanner Machine. Reel. -

Turns 26 Cor. + 00 Depth 26 fms

Shot or lead 28 lb

Bottom bk s.

Bottom temperature 42.6

No. of Thermometer 63902 Cor. -

Corrected temperature 42.6

Air 44 Surface 46 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.59.45

00.30

0

10.00.01

10.00.02

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Past over 10 hundred fathoms at 10.00
In at 10.17
Catch 14
Bob fish
Bob fish
Bob fish

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>Maximum</i>	<i>14</i>	<i>lbs</i>	<i>33 in</i>
50	<i>Minimum</i>	<i>4</i>	<i>"</i>	<i>21</i>
100	<i>Average</i>	<i>8</i>	<i>"</i>	<i>28 1/2 in</i>
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

567.
 513
 H.C.D.

No. 3267 Date June 20th 90
 Tanner Machine. Reel.

Turns 32 Cor. + 0 Depth 32 fm

Shot or lead 28 lb

Bottom bk. S

Bottom temperature 41

No. of Thermometer 63902 Cor. -

Corrected temperature 41²

Air 44 Surface 46 Drift. 1^{mi} N. N. W. 1/2 W.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DOWN.	UP.
11.39.00	41.00
40.10	11.40.11

TURNS.

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

DREDGE ROPE.

DOWN.	UP.
12.01.45	28.30
11.15	12.25.15

Put 9 hauls on port side at 11.40
 Sw at 11.57
 Catch: 1 Halibut 8 lb.
 18 Cod fish.

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

Cod Measurements -
SERIAL TEMPERATURE.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	4 lbs.	Min.	2 2	<i>in</i> -
50	21 lbs.	Max.	3 6	
100	12 1/2 lbs.	Average.	3 1	<i>in</i> -
200				
300	14	Terminalis.	4	Malin.
400	!			
500				
600				
700				
800				
900				
1000				

1543 *Flounders - (3 spec.)* *Two Shrimps -*
1 doz. Alligator fish. *1 pk. Star fishes.*
2 qts. Hermit Crabs. *Several small fishes.*
Flour shells. *Small Crabs!*
1/2 pk. Sponges.
Many large Medusae.

No. 2293 Hyd. Date June 25th 1896.
 Tanner Machine. — Reel.

Turns 43 Cor. + 1 Depth 44 fms.

*Shot or lead 28 lbs.

Bottom gy. S.

Bottom temperature 40°

No. of Thermometer 63902 Cor. -

Corrected temperature 40°

Air 45° Surface 46° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

1. 43.05 44.35

43.25 1. 43.30

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

10 Hand hauled over port side at 1.45.
 In at 2.10.
 Catch - 13 Oct fish.

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

Cod Measurements
SERIAL TEMPERATURE,

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	4 lbs. Min.		23	<u>in</u>
50	17 lbs. Max.		33	<u>in</u>
100	10 1/2 lbs. Aver.		29	<u>in</u>
200				
300	3 Males.		10	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

No. 2394 Hyd. Date June 25th 1890.

Tanner Machine. — Reel.

Turns 41 Cor. + 1 Depth 42 fms.

Shot or lead 28 lbs.

Bottom gy S

Bottom temperature 39.5°

No. of Thermometer 63902 Cor. —

Corrected temperature 39.5°

Air 49° Surface 48° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

3.34.15

35.30

0

34.30

3.34.35

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. 2395 Key Date June 25th 1890

Tanner Machine. - Reel. -

Turns 36 Cor. + 0 Depth 36 fms

Shot or lead 28 lb

Bottom bk. S

Bottom temperature 40

No. of Thermometer 63902 Cor. -

Corrected temperature 40°

Air 45 Surface 47 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
4.17.18	18.35	0		
17 50	4.17.52	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. 3268 ^{557.} Date June 25 - 1890
 Tanner Machine. - Reel. -

Turns 26 Cor. + 0 Depth 26 fms

Shot or lead 28 lb

Bottom bk S & G.

Bottom temperature 41.2

No. of Thermometer 63902 Cor. -

Corrected temperature 41.2

Air 45 Surface 47 Drift. S. 3. E. 3/4 E. 1 mi

Trawl or dredge or tangles Ray Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

5 15 45	16.40	0	5.28.35	57 00
16.00	5 16.02	100	53.35	5.47 50
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Put 'O' haul down over station side at 5:16
 In at 5:26
 Cal. at 7:16

	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.

Shells. Flounder shrimp
 few star fish sand dollars

No. 2396 Key Date June 25th 1898
Tanner Machine. Reel.

Turns 20 Cor. + 0 Depth 20 fms

Shot or lead 28 lb

Bottom bk. S.

Bottom temperature 42.6

No. of Thermometer 63702 Cor. -

Corrected temperature 42.6

Air 42 Surface 45 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6.54.00 6.50:00

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

Put 9 handlines over starboard side for
8 minutes -
Cable / codfish

	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. 3269 Date June 25 1890

Tanner Machine. Reel.

Turns 16 Cor. + 0 Depth 16 fms

Shot or lead 25 lb

Bottom fine gy. S. bk. Sh.

Bottom temperature 42.3°

No. of Thermometer 63902 Cor. -

Corrected temperature 42.3°

Air 42 Surface 42 Drift. 3/4 mi S.E.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.			DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.	UP.
7.25.08	25.40	0	7.36.00	56.0
25.20	7.25.20	50	40.00	7.34.30
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Put 9 handlines over flatboard side at
 7.26.20 in at 7.35.
 Catch 4 codfish

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod Measurements

SERIAL TEMPERATURE.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Max. 6 lb		2.4	in
50	min.	4.	2.2	"
100	Arg.	4 1/2	2.4	"
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

Sand Dollars 2 bu
 Crabs 124 shrimp
 allgals fish
 Hermit crabs & shells
 Sponge shells
 Horned. Liparis

No. 2397 Hyd. Date June 26th 1890.
 Tanner Machine. — Reel.

Turns 16 Cor. + — Depth 16 fms.

Shot or lead 25 lbs.

Bottom crs. sh. s. r. sh.

Bottom temperature 43.8

No. of Thermometer 63902 Cor. —

Corrected temperature 43.8

Air 43 Surface 47 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

2.16.00

16.35

0

16.10

2.16.15

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.

No. *3270 DE* Date *June 26th 1890.*
Tanner Machine. Reel.

Turns *16* Cor. + *-* Depth *16 fms.*

Shot or lead *28 lbs.*

Bottom *bk. S. & Sh.*

Bottom temperature *43.5°*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *43.5°*

Air *43* Surface *47* Drift. *3/10th W. N. W.*

Trawl or dredge or tangles *large beam.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*3.01.15**02.05**0**3.13.15**32.30**01.25**01.35**100**16.45**3.29.30**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 3.05.
 In at 3.10
 Catching Nix.*

*✓
 1/10 1/10
 1/10 1/10*

	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				

6hr. Sand Dollars. REMARKS.

Ascidians.

Shrimps.

Few Flounders.

1 large Skate.

Shells (scab) -

Note - No medusae.

No. 3271 *Dr* Date June 26. 1891

Tanner Machine. Reel.

Turns 25 Cor. + 0 Depth 25 fms

Shot or lead 28 lbs

Bottom bk. S.

Bottom temperature 41.9

No. of Thermometer 63902 Cor. -

Corrected temperature 41.9

Air 4.3 Surface 47 Drift. $\frac{1}{2}$ mi. N. $\frac{1}{4}$ S.Trawl or dredge or tangles *Large Beam*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

H. 18.10

22 05

0

H. 37.00

H. 55.30

18.25

4.21.25

~~100~~

43.00

H. 53.56

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 fish lines on port side at 4.19
 in at 4.33
 Catch: 13 dead fish

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod Median
SERIAL TEMPERATURE.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	<i>Max</i>	<i>17 1/2</i>	<i>34</i>	
100	<i>Min</i>	<i>4.21</i>	<i>21</i>	
200	<i>Arg</i>	<i>9 lb.</i>	<i>27 m</i>	
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

2 Bur. Starfishes
1 cr shrimp
3 Medusae
Flounders
Scrimm Crab
Shells

No.

3272 Dr. Date

June 27/90.

Tanner

Machine.

Reel.

Turns 31 Cor. + - Depth 31

Shot or lead 48 lbs.

Bottom for 4 fms S.

Bottom temperature 42

No. of Thermometer 63902 Cor. -

Corrected temperature 42

Air 43 Surface 45 Drift 1/2 m

Trawl or dredge or tangles Large Beam - 4 ft. 5 ft. 2 ft. P. 4 ft.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

1-55-0

1-16-0

0

2-11-0

25-0

100

2-17-0

2-25-0

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Put 14 fathoms over side
Cast

Down 1-55-0
2-5-0

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	1 bush	Starfish		

REMARKS.

Crab and
 Hermit-Crabs. Shrimps Shells.
 Polyps. Basket fish. *Ilomoda*.
A. nigata fish. 1 *exalt*

No.

2398 H₄

Date

June 27/90

Tanner

Machine.

Reel.

Turns

Cor. +

Depth 35

Shot or lead

38 lbs

Bottom

fine g₄ s

Bottom temperature

34

No. of Thermometer

63902

Cor. -

Corrected temperature

39.2

Air

43

Surface

45

Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
3-08-0	3-09-0	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 new N pick down

3 cord pick

3-09-0
5-20

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. 3273 Dr Date June 27th 1890.
 Tanner Machine. — Reel.

Turns 39 Cor. + — Depth 39 fms.

Shot or lead 28 lbs.

Bottom gy. s. & m.

Bottom temperature 38.5°

No. of Thermometer 63902 Cor. —

Corrected temperature 38.5°

Air 44° Surface 45° Drift, 1 mile S. S. E.

Trawl or dredge or tangles large beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

4.10.45 42.00

41.00 4.41.10

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

4.56.30 16.05

5.01.30 5.12.10

10 Hand lines over ptld side at 4.45.
 In at 4.55.
 Catches: — 8 Cod fish.

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	16 Ws	3.5 mi	
50	Min	3 "	16 "	
100	Avg	10 "	27 "	
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

Crabs. Medusae. Starfish
Hydroids Flounders. Few Shrimp
Sculpin
In all about 1/2 bucket

No. *2399* Hyd. Date *June 27th 1890.*
Tanner Machine. — Reel.

Turns *26* Cor. + — Depth *26 fms.*

Shot or lead *28 lbs.*

Bottom *fine gy. S.*

Bottom temperature *41°*

No. of Thermometer *63902* Cor. —

Corrected temperature *41°*

Air *42°* Surface *46°* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*6.28.05**29.00*

0

*28.15**6.28.25*

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 haul lines over stid side at 6.33 -
 in at 6.41.*

Catch: - 2 Sand Louis - (2 sps.)

1 Cod fish

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. 3274 *Dr* Date *June 27th 1890*
Tanner Machine. — Reel.

Turns 19 Cor. + — Depth 19 fms —

Shot or lead 28 lbs.

Bottom *fk. S. & sh.*

Bottom temperature *did not capsize*

No. of Thermometer 63902 Cor. —

Corrected temperature —

Air 42° Surface 45° Drift. *E. S. E. 3/10 mi*

Trawl or dredge or tangles *large beam*

pm SOUNDING WIRE.

DOWN.

UP.

TURNS.

pm DREDGE ROPE.

DOWN.

UP.

7.19.45	21.00	0	7.33.15	43.00
20.05	7.20.15	45	36.30	7.39.15
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

10 Sand lines over other side at 7.22 —
 In at 7.32
 Catch: — 3 Ord fish.

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

Cod measurements SERIAL TEMPERATURE,

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	18 fbs.	Minim ^m	28	in -
50	12 1/2 fbs	Maxim ^m	32	in -
100	11 + fbs	Average	29 2/3	in -
200				
300	2 Males		1 Female	
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 doz Actinophylm Barnacles
Turbopterians 1 bw sponge
Ascidians Bryozoa
Shells. 296 Sea Urchins
1 doz Holothurians
Shrimps Crabs. Smal
1 doz Starfish 296 No Medusae

No. 3275 *Dr* Date June 27 1890

Tanner Machine. Reel. —

Turns 22 Cor. + 0 Depth 22 fms

Shot or lead 28 lb

Bottom fine bk s.

Bottom temperature 42.8

No. of Thermometer 63902 Cor. —

Corrected temperature 42.8

Air 42 Surface 45 Drift $1\frac{1}{2}^{\circ}$ W $4\frac{1}{2}$ S

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

8.58.20

8.59.05

0

8.59.00

20 10

8.58.35

8.58.37

60

100

9.03.45

9 18 25

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.

1 1/2 bu. Holothurians

Sponge

shrimps

Sea Anemone (2)

Barnacles

a few Flounders (small)

No. 2400 Key Date June 27 1890
Tanner Machine. Reel.

Turns 34 Cor. + 0 Depth 34 fm

Shot or lead 28 lb

Bottom fine gy. s

Bottom temperature did not upst

No. of Thermometer 65902 Cor. -

Corrected temperature -

Air 42 Surface 44 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M. 10.37.50	P.M. 37.08	0		
38.10	10.38.11	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. *Feb 13*

No. *2401* Key Date *June 28th 1890*
Tanner Machine. Reel.

Turns *45* Cor. + *1* Depth *46 fms*

Shot or lead *28 lb*

Bottom *fine gy S*

Bottom temperature *did not register*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *-*

Air *42* Surface *44* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
<i>Am</i> DOWN.	<i>Am</i> UP.		DOWN.	UP.
<i>12.03.00</i>	<i>04.10</i>	0		
<i>03.30</i>	<i>12.03.30</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.

5077

No. *2402* Date *June 28th 90*
Tanner Machine. Reel.

Turns *41* Cor. + *-* Depth *41*

Shot or lead *28 lbs*

Bottom *fine gy S*

Bottom temperature *37*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *37°*

Air *42* Surface *45* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-24-0</i>	<i>1-30-0</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.

No. *2403* Date *June 28th 90*
Journal Machine. Reel.

Turns — Cor. + — Depth *40*

Shot or lead *28 lbs*

Bottom *fine gy S bk Sp*

Bottom temperature *37*

No. of Thermometer *63902* Cor. —

Corrected temperature *37*

Air *42* Surface *45* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.00</i>				
<i>2-30-0</i>	<i>2.51.0</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		

Out over 7 fathoms line
2-53-0
3-05-0
Catch = nothing.

	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. 3276 Date June 28th 1890.

Tanner Machine. Reel.

Turns 18 Cor. + Depth 18 fms.

Shot or lead 28 lbs.

Bottom G. & Sh. & Rky.

Bottom temperature 42°

No. of Thermometer 63902 Cor. -

Corrected temperature 42°

Air 41° Surface 43° Drift. 16 x 1.5/10 mi

Trawl or dredge or tangles Small beam.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

4.23.00

24.00

0

4.38.30

50.15

23.10

4.23.25

40

41.50

4.49.30

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

5 fms over 5th pull at 4.25-
In at 4.33.
Catch:- 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	<u>Trawl net badly torn -</u>			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

Sponges - $\frac{1}{2}$ pk.
 few Holothurians. 2 sps.
 few Ascidians.
 Crabs.
 Banded Stars.
 Star fish.

2 Shrimps.

McC. 2.
567.

No. 3277 *Dr* Date June 28th 1890.
Tanner Machine. — Reel.

Turns 18 Cor. + — Depth 18 fms.

~~Shot or lead~~ 28 lbs.

Bottom G. sh. + Rky.

Bottom temperature 43.2.

No. of Thermometer 63902 Cor. —

Corrected temperature 43.2.

Air 45° Surface 46° Drift. N. 1/4 S. 1^{mi}

~~Trawl or dredge or tangles.~~

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6.06.30

07.30

0

6.32.30

46.50

06.45

6.06.55

100

35.15

6.44.00

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 6.10.
An at 6.28.

Catch: 5 cod fish.

1 Halibut — 16 lbs — 32^{lbs}

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	5 1/2 lbs.	Min.	24	<u>min</u>
50	12 1/2 lbs.	Max.	31	<u>max</u>
100	8 1/2 lbs.	Average	27+	<u>avg</u>
200				
300	3 Males.		2	Females
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 bu. Sea Urchins -
 4 sps. Star fish -
 few Crabs. (2 sps.)
 1 Shell -

J.E.B.

No. *2404* Key Date *June 28. 1890*
Tanner Machine. - Reel. -

Turns *34* Cor. + *0* Depth *34 fms*

Shot or lead *28 lb*

Bottom *bk. S.*

Bottom temperature *40.6*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *40.6*

Air *42* Surface *44* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.			DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.	UP.
<i>8 11 27</i>	<i>12 30</i>	<i>0</i>		
<i>11 50</i>	<i>8 11 51</i>	<i>100</i>		
		<i>200</i>		
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

*Put 10 handlines over port side at 8.12
 in at 8.30
 Haul: 1 flounder
 13 head fish*

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	16 TSS.	Max.	21.	
50	5 "	Min.	24	
100	11 "	Average	30	
200				
300	8	Males.	5	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

No. 3278 Date June 28. 1890

Tanner Machine. — Reel. —

Turns 46 Cor. + Depth 47 fms

Shot or lead 28 lb

Bottom fine gy S.

Bottom temperature 38.8

No. of Thermometer 63902 Cor. —

Corrected temperature 38.8

Air 42 Surface 44 Drift. 3/4 mi N 1/4 W

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
9 59 10	10 00 00	0	10 19 03	44 45
59 30	9 59 32	100	20 45	41 30
		150		
		200	24 12 10	40 10
		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 fish tuns over port side 9 59
 Swat 10 16 AM
 Catch: 3 Coarfish

	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	max	3 66	18	
50	min	2 1/2 "	16	
100	avg	2 2/3 "	16 1/3 m	
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1/2 bu. Sponge Large Crabs
 Large Star fishes Basket Stars
 Shells. Larks. Hydroids Hermit Crab
 Alligator Fishes Sculpin Flounders

No. 2405 Date June 28. 1890
Tanner Machine. Reel.

Turns 40 Cor. + 0 Depth 40 fms

Shot or lead 28 lb

Bottom fine gy. s. & g.

Bottom temperature 38.0

No. of Thermometer 63902 Cor. -

Corrected temperature 38.0

Air 43 Surface 45 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.58.00 12.00.00

59 00 11.59.01

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 10 hand lines for outside 12.00

In at 12-14

Calch 4 Goodfish

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	Good measurements			
50				
100	Max	16	32	
200	Min	5	19	
300	Arg	8 1/2	25	
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

567
CHP

No. *3279* Sr. Date *June 28/90.*
 Tanner Machine. Reel.

Turns — Cor. + — Depth *41*

Shot or lead *28 lbs.*

Bottom *fine gy S.*

Bottom temperature *37.0*

No. of Thermometer *63902* Cor. —

Corrected temperature *37.0*

Air *43* Surface *45* Drift. *1/2 m*
N x E 1/2 E

Trawl or dredge or tangles *Large Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-42-0</i>	<i>1-43-0</i>	0	<i>2-06-0</i>	<i>29-0</i>
		100	<i>12-0</i>	<i>2-25-0</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pick over 9 Hand Series -
Calote 1/2 9 Cord - fresh
4 Pollock
down 1-42-0
up 2-0-0

	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	Surf temp. 24.0			

Baikal Star
 Star fish
 Sponges.
 1/2 Shells
 Hydroids
 Hermit-crabs
 REMARKS.
 Shrimps
 Hagfish
 Small Sculpin
 Blenny

JP

No. 2406 *Ny*^a Date *June 28/90.*
Tanner Machine. Reel.

Turns *41* Cor. + *-* Depth *41*

Shot or lead *28 lbs.*

Bottom *fine gy S.*

Bottom temperature *39°*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *39°*

Air *44°* Surface *45°* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>P.m.</i>				
<i>5-46-30</i>	<i>3-47.30</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		

down 3-48-0
up 4-0-0
fast over 9 ft and 9 min
catch = 1 Crabs fish

	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.

507.

No. 3280 ²⁵ Date June 28th 1890.

Tanner Machine. - Reel.

Turns 36 Cor. + - Depth 36 fms.

Shot or lead 28 lbs.

Bottom fine gy. S.

Bottom temperature 41°

No. of Thermometer 63902 Cor. -

Corrected temperature 41°

Air 44° Surface 45° Drift. $\frac{3}{4}$ mi. E. S. E.

Trawl or dredge or tangles large beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.15. 15	16.30	0	5.33.30	52.30
15.35	5.15.45	20	37.30	5.48.50
		100		
		200	note	
		300	5.53.30	13.45
		400	58.20	6.10.30
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

11 sand line over 24th side at 5.18.
In at 5.32.
Catch. - Mx.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Trawl did not }
get on bottom - } so lowered it
again

SERIAL TEMPERATURE.

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

REMARKS.

Astrophysons. 1 doz. Shells.
 2 qts. Sponges. Small Crabs.
 Star fishes. 3 sps. Few Shrimps -
 Ophiurans. 1 qt. Few Medusae -
 Hermit Crabs. 1 qt.
 Alligator fishes & other small fishes.
 Holothurians.

H.S.D.

No. 2407 Hyd. Date June 28th 1890.
 Tanner Machine. — Reel.

Turns 47 Cor. + 1 Depth 48 fms.
 Shot or lead 28 lbs.

Bottom fm. gy. S. bk. sp.

Bottom temperature 38.2°

No. of Thermometer 63902 Cor. —

Corrected temperature 38.2

Air 42° Surface 45° Drift.

Trawl or dredge or tangles

P.M.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

7.12.25 14.00
 12.50 7.13.05

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

11 hauls over old side at 7.15.
 In at 7.23
 Catch: — 4 Cod fish.

	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	5 lbs.	Mini.	22	40
50	20 lbs.	Max.	35	40
100	9 1/2 lbs.	Aver.	27 1/2	40
200				
300	2	Males.	2	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

3 hand lines carried away.

567

No. 3281 JV Date June 28 1898
Tanner Machine. Reel.

Turns 36 Cor. + 0 Depth 36 fms.
Shot or lead 28 lbs

Bottom gy s. bk. sp
Bottom temperature did not register

No. of Thermometer 63902 Cor. -

Corrected temperature -

Air 42° Surface 45° Drift. 3/4 m SE

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

8 37.00	38.05	0	8.58.55	25.00
37.24	8 37.26	100	9.06.25	8.21.25
		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 hand lines over sternboard.
side at 8 38
in at 8.56
Catch 11 lead fish

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	Max	19 th	0.3	40
50	Min	4 th	2.4	.
100	Avg.	6 1/2 th	25	.
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 Bu Star fish shrimp
 1 Pk Basket Fish Naked Mollusks
 1 Pk Sponge Many large flounders
 6 large crabs 1 skate
 Hermit crabs Allysia fish
 Small snails 6 heads

No. 2408 *Key* Date June 28 1898
Sanner Machine. Reel.

Turns 21 Cor. + 0 Depth 21 fm

Shot or lead 28 lbs.

Bottom P.

Bottom temperature 43

No. of Thermometer 63902 Cor. -

Corrected temperature 43°

Air 42 Surface 45 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.		TURNS.	DOWN.		UP.
P.M.	P.M.				
10.42.25	43.30	0			
42.47	10.42.50	100			
		200			
		300			
		400			
		500			
		600			
		700			
		800			
		900			001
		1000			002
		1100			003
		1200			004
		1300			005
		1400			006
		1500			007
		1600			008
		1700			009
		1800			010
		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. 2409 Key Date June 28 90

Tanner Machine. Reel. —

Turns 21 Cor. + 0

Depth 21 fms

Shot or lead 28 lb

Bottom gy. s.

Bottom temperature 43.5

No. of Thermometer 63912 Cor. —

Corrected temperature 43.5

Air 42° Surface 44° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	P.M. UP.		DOWN.	UP.
11 58.30	59.10	0		
58.50	11 58.52	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.

8073
Handwritten initials and scribbles

No. *2410* Date *June 29/90*
Tanner Machine. Reel.

Turns *30* Cor. + *-* Depth *30*

Shot or lead *28 lbs.*

Bottom *bk. S & G.*

Bottom temperature *41*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *41°*

Air *43°* Surface *46°* Drift.

Trawl or dredge or tangles

Handwritten 'New' with arrow pointing to Sounding Wire column

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-35-0</i>	<i>1-36-0</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.

No. *2411* Date *June 29 190*

Tanner Machine. Reel.

Turns *37* Cor. + *-* Depth *37*

Shot or lead *28 lbs.*

Bottom *gy s*

Bottom temperature *40*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *40°*

Air *42°* Surface *45°* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN. UP.

TURNS.

DOWN.

UP.

2-58-0 2-59-0

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 7 Handed ginner

catch - 6 crabs

*1 Pilumnus
1 Pollock*

Down 2-55-0

up 3-15-0

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod measurements - SERIAL TEMPERATURE.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	5 fbs. Min.		22	ssi.
50	15 fbs. Max.		33	ssi.
100	9 2/3 fbs. Aver.		28	ssi.
200				
300	1 Male -	5 Females -		
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

N.C. 8.

No. 3282 *Dr* Date June 29th 1890.
Tanner Machine. — Reel.

Turns 52 Cor. + 1 Depth 53 fms

~~Shot or lead~~ 28 lbs.

Bottom fine s. & gn. M.

Bottom temperature 38.2°

No. of Thermometer 63902 Cor. —

Corrected temperature 38.2°

Air 42° Surface 45° Drift. 71.8.0 / 4 N. 1.4^{mi}

Trawl or dredge or tangles large beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4. 36. 15	38. 00	0	5. 04. 15	30. 00
36. 40	4. 36. 55	150	11. 50	5. 25. 45
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

5 Hauld line over port side at 4.40
 In at 4.55.
 Catch: 1 Cod fish.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Cod Measurements

SERIAL TEMPERATURE

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	18 fbs.		35 [±]	
50				
100	Female - 1			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

Hydroids -
1 doz. large Crabs.
1 pk. Sponges. Shells.
Bryozoa. Worms
5 sps. star fish. Ophiurans.
2 qts. Small Crabs.
many Alligator fish.
many small fishes.

Hermit Crabs.
Naked mollusks.
few Flounders.
Crustacea.

Sea Anemones.
Setophyton.
Shrimps. (3 sps.)

667.

No. 2412 Hyd. Date June 29th 1890.
 Tanner Machine. — Reel.

Turns 45 Cor. + 1 Depth 46 fms.

Shot or lead 28 lbs.

Bottom fine gy. S.

Bottom temperature 38.8°

No. of Thermometer 63902 Cor. —

Corrected temperature 38.8°

Air 44° Surface 45° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.34.45	37.00	0		
35.05	6.35.30	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.

No. 3283 *SV* Date *June 29th 1890*
Janner Machine. — Reel.

Turns 38 Cor. + 1 Depth 39 fms.

~~Shot or lead~~ 28 lbs.

Bottom *fine gy. S.*

Bottom temperature 40.3°

No. of Thermometer 63902 Cor. —

Corrected temperature 40.3

Air 41 Surface 44 Drift. 1 mi ESE

Trawl ~~or dredge or tangles~~ *Large Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.52.20	54.00	0	8.18.30	46.40
52.40	7.52.50	100	25.25	43.05
		1200	26.35	8.43.15
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*8 Hand hauled over at 7.55.
 In at 8.17
 Catch: - 9 loachfish*

	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	lead	Measurement		
50	Max	18 1/2	33	
100	Min	3	20	
200	Avg	13	30 1/2	
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

2 Bu. Sponges Basket Stars
 Crabs. Hydroids shrimp
 flounders, sea cucumbers or
 barnacles Holothurians

No. 2413 Hy² Date June 29. 1890

Tanner Machine. - Reel. -

Turns 35 Cor. + 0 Depth 35 fms

Shot or lead 28 lb

Bottom fm gy s. tk. Sp

Bottom temperature 41

No. of Thermometer 63902 Cor. -

Corrected temperature 41°

Air 42 Surface 44 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9 59.05	10 00.00	0		
59.30	9 59.32	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 haul lines over starboard side

at 10.00
 21 at 10.27

Calch: 29 Redfish

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	Max	18	33	in
50	min	3	20	
100	Avg	15 1/3	32	"
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

No. 3284 Dr. Date June 29, 1896
 Tanner Machine. Reel.

Turns 25 Cor. + 0 Depth 25 fms

Shot or lead 28 lbs

Bottom fine G.

Bottom temperature 43°

No. of Thermometer 63902 Cor. -

Corrected temperature 43°

Air 44 Surface 47 Drift 1 1/2 m E x S

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.51.50 52.30

0

12.15.0 40

52.05 11.52.06

100

22.0 12.56

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 hauls done at 11.52.
 Sw at 12.15
 Calct: 274 cod fish

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	Max	27	16	39	
50	Min	3	16	19	
100	Arg	11	16	29	in
200					
300					
400					
500					
600					
700					
800					
900					
1000					

REMARKS.

Shrimp. *Plumbeo* Starfish
 Bait Star Crabs.
 Sponges sea anemones

No. *2414* Date *June 29/90*
Tanner Machine. Reel.

Turns *15* Cor. + *-* Depth *15*

Shot or lead *28 lbs.*

Bottom *fine g. s.*

Bottom temperature

No. of Thermometer *-* Cor. *-*

Corrected temperature

Air *45* Surface *46* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.			DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.	UP.
<i>Out - 9 Hand line over</i> <i>Calc = nothing, zero fish</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		

down 3-11-
up 3-27

	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.

Y.E.B.
567.

No. 2415 Key Date July 16th 1890
Hand Lead Machine. Reel. —

Turns — Cor. + — Depth 8½

Shot or lead 12 lb

Bottom fine gy S.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 50 Surface 54 Drift. —

Trawl or dredge or tangles —

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

14 30.00 14 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

Put over 7 handlines over port side at 4.31 Swat 4.46 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.

567.

No. 2416 Key Date July 16. 1890
 Sigsbee Machine. Reel.

Turns — Cor. + — Depth 14 3/4

Shot or lead 12 lb

Bottom Crs. bk. s.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 48 Surface 57 Drift. —

Trawl or dredge or tangles —

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
5-5-9.00	6-0-0.00	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 handline on port side from
 6.00
 in at 6.14
 Catch: 1 sculpin

	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.

507.

No. 2417 Key Date July 16. 1890
 Hand Lead Machine. Reel.

Turns — Cor. + — Depth 12 fms

Shot or lead 12 lb

Bottom bk G.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 48 Surface 49 Drift. —

Trawl or dredge or tangles —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M. 6.57.00	6.58.00	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 8 handlines over port side at 6.58
 in at 7.16

Calch 9 Codfish

Flounder

	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. 2418 Hyd. Date July 16th 1890.
 Tanner Machine. — Reel.

Turns 28 Cor. + — Depth 28 fms.

Shot or lead 28 lbs.

Bottom fine gy. s.

Bottom temperature 44°

No. of Thermometer 63902 Cor. —

Corrected temperature 44°

Air 47° Surface 48° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.55.45	57.30	0		
56.00	8.56.45	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. 507.~~

No. 2419 *Ny^d* Date *July 16th 1890.*
Sanner Machine. — Reel.

Turns 37 Cor. + — Depth 37 fms.

Shot or lead 28 lbs

Bottom *fine gy. s.*

Bottom temperature — *Did not report.*

No. of Thermometer 63902 Cor. —

Corrected temperature —

Air 45° Surface 47° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>P.M.</i> 10.35.00	36.30	0		
35.20	10.36.00	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. Wire parted at 39 fms.
 Expended 39 fms. wire.
 Nothing else lost.

957
JLB

No. 2420 Key Date July 17th 1890
Tanner Machine. Reel.

Turns 38 Cor. + 0 Depth 38 fms.

Shot or lead 28 lbs

Bottom fine gy S

Bottom temperature 41

No. of Thermometer 63902 Cor. -

Corrected temperature 41°.

Air 45 Surface 46 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12.16.55	18.55	0		
17.50	12.17.55	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. 2421 Key Date July 17. 1890
 Tanner Machine. Reel.

Turns 38 Cor. + 0 Depth 38 fms

Shot or lead 28 lbs

Bottom fine gy. S

Bottom temperature 40.5

No. of Thermometer 63902 Cor. -

Corrected temperature 40.5

Air 44 Surface 46 Drift. -

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2 06.13 - 08.00
 07.10 2.07.11

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. 2422 Date July 17th 1890
 Sanner Machine. Reel.

Turns 40 Cor. + 0 Depth 40 fms

Shot or lead 28 lb

Bottom fine gy. S

Bottom temperature 40

No. of Thermometer 63902 Cor. -

Corrected temperature 40°

Air 44 Surface 46 Drift. -

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
3.29.50	31.05	0		
30.15	3.30.17	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. 3285 Date July 17th 1890.
 Tanner Machine. — Reel.

Turns 35 Cor. + — Depth 35 fms.
 Shot or lead 28 lbs.

Bottom gy. s. bk. sp.

Bottom temperature 41°

No. of Thermometer 63902 Cor. —

Corrected temperature 41°

Air 43° Surface 44° Drift. S. 1/2 E. 1/10'

Trawl or dredge or tangles large beam.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5.09.30

11.00

0

5.24.00

47.00

09.45.

5.09.55

100

28.35

5.43.00

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Hand down over st'rd side at 5.10.
 In at 5.20.
 Catch. — Trip.

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 Small Cod fish. Few Flounders.
 3w. Helligator fish. 2 sps. Shrimps. Bryozoa -
 5 sps. Star fish. Astrophyton. 1 bu. Sponges.
 2 qts. Large Shells. 1 qt. Hermit Crabs. 2 sps.
 Small Crabs. Ophiurans -

No. 3286
JEB

No. 3286 *Dr* Date *July 17th 1890.*
Tanner Machine. — Reel.

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

Bottom *fm. gy. s. sh. & s.*

Bottom temperature *41.5°*

No. of Thermometer *63902* Cor. —

Corrected temperature *41.5*

Air *43°* Surface *45°* Drift. *E. S. E. 1 1/2*

Trawl or dredge or tangles *large beam.*

SOUNDING WIRE.			DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.	UP.
<i>7.14.15</i>	<i>15.30</i>	0	<i>7.29.30</i>	<i>57.10</i>
<i>14.35</i>	<i>7.14.45</i>	100	<i>35.30</i>	<i>7.53.00</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*9 Hand lines over ettid side at 7.15.
In at 7.30.
Catch: — 6 Ad 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 fbs. Min.		29	ⁱⁿ
50	21 fbs. Max.		35	ⁱⁿ
100	14 fbs. Average.		31 1/2	ⁱⁿ -
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 qt Hermit Crabs A few sand dollars
 1/2 bu Star fish 2 qts Shells
 1/2 bu Wreck fish
 1 doz Flounders A few Atlantic fish
 1 qt of crabs + small Pollock

597.

No. 3287 *SV* Date *July 17th 1890*
Tanner Machine. — Reel. —

Turns *30* Cor. + *0* Depth *30 fms*
 Shot or lead *28 lbs*

Bottom *crs. bk. S*

Bottom temperature *42°*

No. of Thermometer *63902* Cor. —

Corrected temperature *42.2*

Air *44°* Surface *46°* Drift. *55 1/2 1 m*

Trawl or dredge or tangles *large beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9 16 15</i>	<i>17. 25</i>	0	<i>9.35.58</i>	<i>10. 02. 22</i>
<i>16 40</i>	<i>9.16.45</i>	96	<i>43. 15</i>	<i>9. 59. 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		

Put over 7 hauld lines on station and side at 9:16
Swat 9:31
haulch 1 codfish
1 flounder

	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.

1/2 doz medusa Two small flounder
 ascidians 2 knids Alligator fish
 Starfish 11 knids Small sculpin.
 Basket fish
 Shells. Shrimps
 1 Holothurian

No. 3288 *Dr* Date *July 17th 1890*
Sam Machine. — Reel.

Turns *15* Cor. + *0* Depth *15 fms*

Shot or lead *28 lb*

Bottom *bk G.*

Bottom temperature *45.5*

No. of Thermometer *6390* Cor. —

Corrected temperature *45.5*

Air *44°* Surface *46°* Drift. *1st S.E. 1/4 E.*

Trawl or dredge or tangles *Large Beam*

SOUNDING WIRE.

DOWN. UP.

Ant *11.18.15* *19.00*
18.35 *11.18.37*

DREDGE ROPE.

DOWN. UP.

Ant *11.35.10* *58.00*
40.00 *11.55.05*

TURNS.

45
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 5 handlines on starboard deck at
11.20
swat 11.32
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 pr. Star fish
 a few Shrimps
 12 dy. *P. leucomela*
 a few Shells. Hermit crabs in shells.

No. *2425 Hy* Date *July 17/90*
Hand Loom Machine. Reel.

Turns — Cor. + — Depth *15*

Shot or lead *12 lbs*

Bottom *fk S + G*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air *44°* Surface *45°* Drift.

Trawl or dredge or tangles —

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

Q.M.
1-20-0

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.

2424

Date

July 17/90

Tanner Machine.

Reel.

Turns 30 Cor. + 0 Depth 30

Shot or lead 28 lbs.

Bottom fine gy S & G

Bottom temperature no surf

No. of Thermometer Cor. -

Corrected temperature -

Air 43 Surface 45 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

3-08-0 3-09-0

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 7 and lines.
 catch = 35 crabs

3-10-0
 3-21-0

	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.

1007.
107.

No. 2425 Key Date July 17th 1890.
Tanner Machine. — Reel.

Turns 35 Cor. + — Depth 35 fms.

Shot or lead 28 lbs.

Bottom cr. bk. s.

Bottom temperature Did not compare

No. of Thermometer 63902 Cor. —

Corrected temperature —

Air 42° Surface 42° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

4. 55.30	56.45	0		
55.45	4. 55.55	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 450.
In at 5:15.
Catch: 9 Cod fish

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

Cod SERIAL TEMPERATURE. *Measurement.*

DEPTH.	WMP.	NO. OF THER.	COR.	COR. TEMP.
25	25 fbs.	Maxim =	36	<i>in</i>
50	5 fbs.	Minim =	24	<i>m</i>
100	12 fbs.	Average	30	<i>in</i>
200				
300	8 females.		1 Male	
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

507.

No. 2426 Hy^d Date July 17th 1890
 Tanner Machine. — Reel.

Turns 36 Cor. + — Depth 36 fms —

Shot or lead 28 lbs.

Bottom gy. S.

Bottom temperature 38°

No. of Thermometer 63902 Cor. —

Corrected temperature 38°

Air 42° Surface 43° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.56.40	58.30	0		
57.05	6.57.15	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

10 Hand lines over port side at 7.00
 In at 7.15
 Catch: 9 Crd fish.
 1 Blunder
 2 Pollock.

	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>5 fbs.</i>	<i>Min.</i>		<i>22 ^{deg}</i>
50	<i>13 fbs.</i>	<i>Max.</i>		<i>32 ^{deg}</i>
100	<i>9 fbs.</i>	<i>Average</i>		<i>27 1/2 ^{deg}</i>
200				
300				
400	<i>7 Females -</i>		<i>2 Males.</i>	
500				
600				
700				
800				
900				
1000				

REMARKS.

Lab
567

No. 2427 *Hy* Date *July 17. 1890*
Tanner Machine. Reel.

Turns *39* Cor. + *0* Depth *39 fms*

Shot or lead *28 lb*

Bottom *bk. S*

Bottom temperature *did not register*

No. of Thermometer *63902* Cor. —

Corrected temperature —

Air *41* Surface *43* Drift. —

Trawl or dredge or tangles —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.54.00</i>	<i>53.00</i>	0		
<i>54.30</i>	<i>8.54.32</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		

Put on 8 handline on port side at 8.54
In at 9.05-
Catch 1 leadfish

	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. 2428 Key Date July 17. 1890
 Tanner Machine. — Reel. —

Turns 38 Cor. + 0 Depth 38 fms

Shot or lead 25 lb

Bottom bk. S.

Bottom temperature 38

No. of Thermometer 63902 Cor. —

Corrected temperature 38°

Air 41 Surface 43 Drift. .

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.25.10	26.05	0		
25.30	10.20.30	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.

No. 2429 Key Date July 17th 1890
 Tanner Machine. Reel. —

Turns 34 Cor. + 0 Depth 34 fms

Shot or lead 28 lb

Bottom fine gy s. bk. sp

Bottom temperature 38.5-

No. of Thermometer 63902 Cor. —

Corrected temperature 38.5

Air 41 Surface 43 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.50.00 52.00

50.30 11.52.80

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. *2430 Hy* Date *July 18/90**Tanner* Machine. Reel.Turns *34* Cor. + *0* Depth *34*Shot or lead *28*Bottom *gy S*Bottom temperature *no temp*No. of Thermometer *-* Cor. *-*Corrected temperature *-*Air *40°* Surface *42°* Drift.Trawl or dredge or tangles *-*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>1-34-0</i>	<i>1-35-0</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.

No. *2431 Hy* Date *July 18/90*
Tanner Machine. Reel.

Turns *30* Cor. + *0* Depth *30*

Shot or lead *28 lbs*

Bottom *fk b.*

Bottom temperature *41°*

No. of Thermometer *65902* Cor. -

Corrected temperature *41°*

Air *40°* Surface *43°* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-10-0</i>	<i>3-11-0</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.

567.

No. 32895 Date July 18th 1890.

Hand lead Machine. — Reel.

Turns — Cor. + — Depth 16 fms.

Shot or lead 12 lbs.

Bottom Gk. S.

Bottom temperature none taken.

No. of Thermometer — Cor. —

Corrected temperature —

Air 42° Surface 45° Drift. 1' S. E. 1/4 E.

Trawl or dredge or tangles large beam.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

H. 45.50

H. 46.50

0

5.04.30

25.10

45
100

07.30 5.23-15

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

6 Hand line over st'd side at 4.45.

in at 5.00

Catch: — 45 Ord Gick.

1 9 pounder.

	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. Minimum		28	ui
50	13 lbs. Maxim		33	ui
100	10 lbs. Average		30 1/2	ui
200				
300				
400	2 Males		3	Females
500				
600				
700				
800				
900				
1000				

REMARKS.

1 pk. Sea Urchins.
 2 bu. Worms. 2 qts. Small Clams -
 1 qt. Small Crabs. Shells with Hermits.
 5 Small Scalps.
 Few shrimp -
 Few Ascidians.

N.C.S.
567.

No. *2432 Hy^d* Date *July 18th 1890*
Hand Machine. Reel.
 Turns — Cor. + — Depth *15 1/4*
 Shot or lead *12 lbs.*
 Bottom *gy. s. & G.*
 Bottom temperature *none taken*
 No. of Thermometer — Cor. —
 Corrected temperature —
 Air *43°* Surface *44°* Drift.
 Trawl or dredge or tangles

J.M. SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6. 43.00 *6. 44.00*

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.

175.8.
507.

No. 3290 *Dr* Date July 18th 1890.
Hand lead Machine. — Reel.

Turns — Cor. + — Depth 16 fms.

Shot or lead 12 lbs.

Bottom gy. S. gy

Bottom temperature none taken

No. of Thermometer — Cor. —

Corrected temperature —

Air 43° Surface 47° Drift. S. 6. E. 1 1/2

Trawl or dredge or tangles large beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.50.00	6.50.30	0	7.07.30	34.00
		100	10.00	7.32.15
		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 stbd side at 6.50.
An at 7.05.
Catch: 1 large scallop.

	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				

3 spec. Star fish (2 in) - REMARKS. - *Ascidians*
Hydroids - Few small Anomura
Few shells -

No. 3291 *SV* Date July 18 1890
Tanner Machine. - Reel. -

Turns 26 Cor. + 0 Depth 26 fms

Shot or lead 28 lbs.

Bottom bk. S. G

Bottom temperature 41.2

No. of Thermometer 63902 Cor. -

Corrected temperature 41.2

Air 42 Surface 45 Drift $\frac{6}{10}$ W. N. W.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DREDGE ROPE.

AM DOWN.	AM UP.	TURNS.	AM DOWN.	AM UP.
9.16.35	17.25	0	9.39.35	10.00.00
16.50	9.16.55	80	43.30	9.57.15
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pulver 10 handlines on port side at 9.18
 In at 9.32
 Balch 25- codfish

	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	Mat	15-lb 34	in	
50	Min	7 " 29	"	
100	Arg	11 " 29 1/2		
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 Bu Starfish 3 kinds Bygonia
 1/2 pr shrimp 3 " Sponges shell
 1 pr Crabs Sculpin
 Ascidians 1 Young Cod
 Hermit Crabs
 Holothurians

507. 2813

No. 2432 Date July 18th 1890
 Tanner Machine. Reel.

Turns 31 Cor. + 0 Depth 31 fms

Shot or lead 28 lb

Bottom gy. S. & G.

Bottom temperature 40°

No. of Thermometer 63902 Cor. -

Corrected temperature 40°

Air 42° Surface 46° Drift. 6 W. 10 N.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.29.15	20.10	0		
29.30	11.29.33	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pulley 10 handline on port side at 11.30.
 Swath 11.45
 Catch 39 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 Hrs.	Minimum ^m	23	^m
50	16 Hrs.	Maximum ^m	31	^m
100	8 Hrs.	Average	29	^m
200				
300	18	Males	21	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

No. 3292 Dr Date July 18th 1890.

Tanner Machine. — Reel.

Turns 32 Cor. + — Depth 32 fms.

Shot or lead 28 lbs.

Bottom H. S. & G.

Bottom temperature did not expose.

No. of Thermometer 63902 Cor. —

Corrected temperature —

Air 44° Surface 45° Drift. $\frac{8}{10}$ N. N. W.

Trawl or dredge or tangles large beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1.22.40	24.00	0	1.39.00	2.00.30
22.55	1.23.05	100	43.15	1.56.30
		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 1.20

In at 1.36.

Catch: 34 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	26	<u>m</u>
50	18 fbs.	Maximum ^m	34	<u>m</u>
100	12 fbs.	Average	30	<u>m</u>
200				
300	17	Males.	17	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

3 sps. ascidians - Shells -
 Hermit Crabs. & other small Crabs.
 Sponges. 1/2 bu. Hydroids 1/2 pk.
 Star fishes. Detritophyton -
 2 sps. Shrimps. Alligator fish -
 3 crabs. Small Pulpis.

No. 2433 Hy^a Date July 18th 1890.
 Tanner Machine. — Reel.

Turns 32 Cor. + — Depth 32 fms.

Shot or lead 28 lbs.

Bottom bk. s. & g.

Bottom temperature 40°

No. of Thermometer 63902 Cor. —

Corrected temperature 40°

Air 43° Surface 44° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3.21.10 22.10

0

21.25 3.21.35

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

9 Hand lines over port side at 3.20
 hr at 3.35

Catch: — 7 Cod fish —

2 Flounders —
 1 Large Sculpin —

	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 lbs.	Minimum ^m	23	<u>iv</u>
50	17 lbs.	Maxim ^m	36	<u>iv</u>
100	11 lbs.	Average	28½	<u>iv</u>
200				
300	0 Males.		7	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

513
No. 3293

No. 3293 *52* Date *July 18th 1890*
Tanner Machine. Reel.

Turns *30* Cor. + *0* Depth *30 fms*

Shot or lead *28 lb*

Bottom *fine gy. s.*

Bottom temperature *40.0°*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *40.0°*

Air *43°* Surface *44°* Drift. *SE 1/4 E 1 1/2*

Trawl or dredge or tangles *Large Beam*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5-06.40 *07.55*
07.05 *5.07.10*

5.26.30 *50.40*
31.15 *5.48.10*

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Over 10 hauls in one side at 5.17
In at 5.25-

Catch: - 1 Cod fish.

12 Flounders -

	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 1/2 fbs.	Minimum ^m	26	<u>mi</u>
50	14 fbs.	Maximum ^m	31	<u>mi</u>
100	8 fbs.	Average	29	<u>mi</u>
200				
300	2	Males	5	Females
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 Pk Crabs & kuids.
1 Pk Hydroids Ascidians
1 Pk Sponges Alligators Fish
1 Big Skate - Hermit Crab
Flounders Shells
Sculpin Star fish & kuid

No. 2434 764 Date July 18th 1898
 Tanner Machine. Reel.

Turns 31 Cor. + 0 Depth 31 fms

~~Shot~~ lead 28 lb

Bottom fine gy. S

Bottom temperature 40

No. of Thermometer 63902 Cor. -

Corrected temperature 40²

Air 43° Surface 44 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

P.M. DOWN.	P.M. UP.	TURNS.	DOWN.	UP.
7.02.20	04.00	0		
02.30	7.02.32	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 16 hauls into one sideboard side at 7.02
 Swat 7.16
 Reel: 15' hook 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	<i>Max</i>	<i>19</i> <i>lb</i>	<i>34</i>	<i>in</i>
50	<i>Min</i>	<i>6</i> <i>"</i>	<i>23</i>	<i>"</i>
100	<i>avg</i>	<i>11</i> <i>lb</i>	<i>29 1/2</i>	<i>"</i>
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

No. 3294 *SI* Date *July 18th 1890.*
Tanner Machine. — Reel.

Turns 30 Cor. + — Depth 30 fms.

Shot or lead 28 lbs.

Bottom *bk. S.*

Bottom temperature 41°

No. of Thermometer 63902 Cor. —

Corrected temperature 41°

Air 42° Surface 45° Drift. $\frac{3}{4}$ *m* E. S. E.

Trawl or dredge or tangles *large beam*

P.M. SOUNDING WIRE.

DOWN.

UP.

TURNS.

P.M. DREDGE ROPE.

DOWN.

UP.

8.41.00

42.00

0

8.53.00

18.05

41.20

8.41.30

100

57.35

9.14.10

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

P Hand lines over *pt 14* side at 8.35.
In at 8.51.
Catch: — 2 Ord 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	11 fbs. Minum ^m		28 ^{mi}	
50	12 fbs. Maxim ^m		29 ^{mi}	
100	11 1/2 fbs. Average		28 1/2 ^{mi}	
200				
300	1	Male	1	Female
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

2 spec. Star fish. Shrimps.
 Few shells with Hermit Crabs.
 Sponges. Hydroids. Ascidians.
 Alligator fish. Boundaries.

No. 2435 Hy & Date July 18th 1890-
Tanner Machine. — Reel.

Turns 25 Cor. + — Depth 25 fms —
Shot or lead 28 lbs.

Bottom gy. S.

Bottom temperature 41.6°

No. of Thermometer 63902 Cor. —

Corrected temperature 41.6

Air 41° Surface 43° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10-39.45	40.45	0		
40.00	10.40.05	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. 2436 Hy^d Date July 18th 1890.
Hand lead Machine. — Reel.

Turns 20 Cor. + — Depth 20 fms.

Shot or lead 12 lbs.

Bottom Sandy.

Bottom temperature none taken —

No. of Thermometer — Cor. —

Corrected temperature —

Air 41° Surface 43° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.28.00 11.28.30

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.

667.

No. 2437 Hyd. Date July 18th 1890.
 Hand lead Machine. Reel.

Turns 17 Cor. + — Depth 17 fms.
 Shot or lead 12 lbs.

Bottom Sandy.

Bottom temperature none taken —

No. of Thermometer — Cor. —

Corrected temperature —

Air 41° Surface 44° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.58.00	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		

	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. 667.

No. 2438 Hyd. Date July 19th 1890.
 Hand lead Machine. — Reel.

Turns 12³/₄ Cor. + — Depth 12³/₄ fms

Shot or lead 12 lbs.

Bottom vk. S.

Bottom temperature none taken

No. of Thermometer — Cor. —

Corrected temperature —

Air 41° Surface 44° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12.31.00 12.32.00

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.

Put wire & hand lines
 at 3.30.
 Calot. 1 Cord fish.

		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. 3295^{SV} Date July 19th 1890

Hand Reel Machine. Reel.

Turns 11 $\frac{1}{2}$ Cor. + - Depth 11 $\frac{1}{2}$ fms~~Shot or lead~~ 12 lb

Bottom fine gy. S

Bottom temperature

No. of Thermometer — Cor. —

Corrected temperature —

Air 47 Surface 50 Drift. 1' N. N. W. 1/2 W.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
9.45.00	9.46.00	0	9.57.00	18 27
		100	10.00.20	10 14 25
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Barometer & hand reel one foot side of 946
 Swath 954
 Cal. 15h. 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.

1/2 bu star fish
 2 qts shrimp
 Keyhole crabs
 1 pound Hermit crab
 Scudians

567.

No. 3296 *LT* Date July 19th 1890.
 Tanner Machine. - Reel.

Turns 24 Cor. + - Depth 24 fms.

Shot or lead 28 lbs.

Bottom gy. s. bk. sp.

Bottom temperature 43°

No. of Thermometer 63902 Cor. -

Corrected temperature 43°

Air 45° Surface 47° Drift. 1.3 W 14 S

Trawl or dredge or tangles large beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12.16.40 18.00

0

12.33.45 57.00

17.00 12.17.10

80
100

37.10 12.54.00

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 12.15.
 In at 12.30.
 Catch: - 22 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.	Minimum ^m	28 ⁱⁿ	
50	18 fbs.	Maximum ^m	33 ⁱⁿ	
100	12 1/2 fbs.	Average	31 ⁱⁿ	
200				
300	10	Males.	12	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 ft. shells with Hermit Crabs.
 1 1/2 bu. (2 sps) Star fish. Hydroids
 flounders. (few). Crabs.
 Alligator fish, 1 qt. Shrimps. (6 sps.)
 Bryozoa. Small fishes.

1758.
567.

No. 3297 *Dr* Date July 19th 1890-
Tanner Machine. - Reel.

Turns 26 Cor. + - Depth 26 fms.

Shot or lead 28 lbs.

Bottom gy. S.

Bottom temperature 41.5°

No. of Thermometer 63902 Cor. -

Corrected temperature 41.5°

Air 46° Surface 47° Drift. 1^{mi} N. E. 3/4 W.

Trawl or dredge or tangles large beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.03.45	05.00	0	3.25.30	42.20
04.15	3.04.25	100	31.10	3.45.45
		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 3.05.
In at 3.20.
Catch: 37 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.	Minim <u>m</u>	26	<u>in</u>
50	20 fbs.	Maxim <u>m</u>	33	<u>in</u>
100	12 fbs.	Average.	30	<u>in</u>
200				
300	16	Males	21	Females.
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 Bu Star fish shrimp
 1/2 Bu Sponges 2 large Flounders
 Hydroids A few young Sculpin +
 Hermit crabs Polychaetes.
 Ascidians

567. *68* *NT. 3.*

No. *2439* Key Date *July 19th 1898*
Tanner Machine. Reel.

Turns *24* Cor. + *0* Depth *24 fms*

Shot or lead *28 lb*

Bottom *gy S.*

Bottom temperature *43.0*

No. of Thermometer *63902* Cor. *-*

Corrected temperature *43.5*

Air *45* Surface *46* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.52.30</i>	<i>53.30</i>	0		
<i>53.00</i>	<i>5.53.02</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		

Put over 10 hauls times for side at 5.52
Run at 6.06 -
Enclth: 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	10 fbs.	Minim ^m	29	<u>in</u>
50	13 fbs.	Maxim ^m	32	<u>in</u>
100	10 ³ / ₄ fbs.	Average	30 ¹ / ₄	<u>in</u>
200				
300	4	Males -	0	Females -
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

597

No. 3298 ⁵² Date July 19th 1890
 Tanner Machine. - Reel. -

Turns 20 Cor. + 0 Depth 20 fms

Shot or lead 28 lb

Bottom fine. gij. S.

Bottom temperature 64.3.8

No. of Thermometer 63902 Cor. -

Corrected temperature 43.8

Air 45 - Surface 48 Drift. 1.7 SE x S

Trawl or dredge or tangles Large Bream

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	P.M. UP.		P.M. DOWN.	P.M. UP.
8.11 15	12.35	0	8.30 00	52.00
11 45	8.11.00	70	35.20	8.48.00
		100	<u>Current upsett</u>	
		200	8.52.00	18.00
		300	56.00	9.05.30
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Put over 10 hauls on sttd side at 8.12.

Swat. 8.27

Catch. 21 headfish

1 Flounder

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

Good SERIAL TEMPERATURE. Measurement

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Max	17 lb	35 in	
50	Min	9 "	29 "	
100	avg	12 "	29 "	
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 Pk Shrimps Sponge
 1 Bu Starfish
 2 doz Flounders 2 Knives
 ophurians Hermit crabs Shells

No. 2440 Hg^d Date July 19th 1890.
 Hand lead Machine. — Reel.

Turns — Cor. + — Depth 13 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.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.44.00	11.22.30	0	anchored	
		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 am put on first side & furling lines for 30 minutes catch 3 cod fish two flounders.

	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. 2441 Hy & Date July 20th 1890.
 Tanner Machine. — Reel.

Turns 20 Cor. + 0 Depth 20 fms.

Shot or lead 28 lbs

Bottom gy. S. bk. Sp.

Bottom temperature 40.4°

No. of Thermometer 63902 Cor. —

Corrected temperature 40.4°

Air 47° Surface 50° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6. 38.50

40.00

0

39.10

6. 39.20

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 hauls since over port side at 6.36-
 in at 6.53.

Catch — 3 Cat fish.
 1 Flounder.

	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	12 tbs.	Minim ^m	31 ⁱⁿ	
50	12 tbs.	Maxim ^m	32 ⁱⁿ	
100	12 tbs.	Average -	31 ² / ₃ ⁱⁿ	
200				
300	3	Males -	0	Females -
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

667
6/13

No. 3299 Date July 20. 1890
Tanner Machine. Reel.

Turns 20 Cor. + 0 Depth 20 fms

Shot or lead 28 lb.

Bottom fine gy. S. gl. Sp.

Bottom temperature 44

No. of Thermometer 63902 Cor. -

Corrected temperature 44.2

Air 49° Surface 54° Drift 1.5 West

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
9 19.20	20.50	0	9.37.00	03 13
19.35	9.20.10	100	42.00	10 00.20
		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 handlines on stbd side at 9.20
 SW at 9.30
 Catch: 12 loopyfish

	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	max	18 lb	33	
50	min	9 "	29	
100	avg	12 1/4 lb	30 1/2 in	
200				
300	Temp.	8	Male	8
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

1 bu flat fish Few Crabs
 12+ shrimp Crustacean
 Sponges Worms
 2 sps Flounder
 alligator Fish

No. 2442 Hyd Date July 20th 1890
 Tanner Machine. - Reel.

Turns 21 Cor. + - Depth 21 fms.

Shot or lead 28 lbs.

Bottom M. S.

Bottom temperature 44.2

No. of Thermometer 63902 Cor. -

Corrected temperature 44.2

Air 51° Surface 55° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

12.18.45

20.00

0

19.05

12.19.15

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

9 Hand line over port side at 12.18.
 in at 12.33.

Catch 20 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 lbs.	Minim ^m	26	<u>in</u>
50	20 lbs.	Maxim ^m	34	<u>in</u>
100	12 1/2 lbs.	Storage	31	<u>in</u>
200				
300	10	Males	10	Females
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

5672

No. 2443 Hy. Date July 20th 1890.

Tanner Machine. - Reel.

Turns 23 Cor. + - Depth 23 fms.

Shot or lead 28 lbs.

Bottom gy. s.

Bottom temperature 45°

No. of Thermometer 63902 Cor. -

Corrected temperature 45°

Air 49° Surface 55° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.34.00	35.00	0		
34.15	2.34.20	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 haul lines over port side at 2.35 -
 In at 2.50
 Catch: - 3 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	5 lbs. <i>Minimum</i>		23	<i>in</i>
50	10 lbs. <i>Maximum</i>		31	<i>in</i>
100	7 lbs. <i>Average</i>		27	<i>in</i>
200				
300	2	<i>Males</i>	1	<i>Female</i>
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

567.
4013

No. 3300 Date July 20 1890
Tanner Machine. Reel.

Turns 15 Cor. + 0 Depth 15 fms

Shot or lead 28 lb

Bottom P.

Bottom temperature 42.2

No. of Thermometer 63902 Cor. -

Corrected temperature 42.2

Air 60 Surface 57 Drift. 1/2 N. 1/4 W.

Trawl or dredge or tangles Large Beam trawl

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

4 47.00	47.35	0	5.04 30	5 18 15
47.15	447.17	100	5.07.15	5.16 30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pur over 10 handlines port side about 10
Dredge 5502
Catched: 10 headfish

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

Good

SERIAL TEMPERATURE.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Min	8 "	27 in	
50	Max	16 "	31 in	
100	Arg	11 lbs	29 1/4 in	
200				
300				
400	Females	6	Males	4
500				
600				
700				
800				
900				
1000				

REMARKS.

1 bu Star fish 3 Knids (1 new)
 1 pk Sea Urchin
 Crabs & Hermit -
 Shrimps 4 Knids shells
 Flounders, sculpin alligator
 fish.

No. 2444 Day Date July 20. 1890
 Trawl or Lead Machine. - Reel. -

Turns - Cor. + - Depth 6 1/2

Shot or lead 12 lbs

Bottom gy. S. & G.

Bottom temperature

No. of Thermometer

Cor.

Corrected temperature

Air 49

Surface 53

Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

P. 20
 4.16.08
 7.16.30
 Put 10 sandlines now port side at 7.16
 in at 7.31
 Catch. wire

7.16.30

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.

507

No. 330152 Date July 20th 1890
 Hand lead Machine. Reel.

Turns 17 Cor. + Depth 17 fms.

Shot or lead 12 lbs.

Bottom fine gy. S.

Bottom temperature none taken.

No. of Thermometer Cor.

Corrected temperature

Air 48° Surface 52° Drift 0.7' WNW

Trawl or dredge or tangles large beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.51.00	9.51.30	0	9.56.10	15.50
		60	58.50	10.13.00
		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 for 20'
 Cut 13 cord fish

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

Cod SERIAL TEMPERATURE *Measurement*

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>min</i>	8	26	<i>min</i>
50	<i>max</i>	17 "	34	"
100	<i>avg</i>	10 "	31	"
200				
300				
400	<i>Females</i>	10	<i>Males</i>	3
500				
600				
700				
800				
900				
1000				

REMARKS.

Letrophytons. *Ascidians.*
Hydroids. *Bryozoa.* *Sea Anemones.*
4 sps. Shrimps. *Several Blounders.* *2 sps.*
Illigstor fishes. *Shells with Hermits.*
Small Crabs. *Small fishes.*

No. *2445* Key Date *July 21. 1890*
Tanner Machine. Reel.
 Turns *26* Cor. + *0* Depth *26 fms*
 Shot or lead *28 lb*
 Bottom *fine gy. s*
 Bottom temperature *40.0*
 No. of Thermometer *63902* Cor. -
 Corrected temperature *40.0*
 Air *49* Surface *50* Drift.
 Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>6.01.00</i>	<i>6.02.00</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		

Put over 9 hauls
 Swat 6.18
 Catch 7 codfish

Port side @ 6.02

	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	8 lbs	26	in
50	max	14 "	31	"
100	avg	11 "	28 1/2	"
200				
300	Males 4 Females 3			
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

597.
J.E. 13

No. 3302 ~~11~~ Date July 21st 1890.
Tanner Machine. — Reel.

Turns 30 Cor. + — Depth 30 fms.

~~Shot or lead~~ 28-lbs.

Bottom fm. gy. s.

Bottom temperature 40.2°

No. of Thermometer 63902 Cor. —

Corrected temperature 40.2°

Air 48 Surface 51 Drift. 1^{mi} S.E. 1/2 E.

Trawl or dredge or tangles large beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8. 11. 00	12. 00	0	8. 32. 45	53. 00
11. 15	8. 11. 25	100	37. 10	8. 50. 50
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

9 haul lines over ethd side at 8.12.
 In at 8.19.
 Catch: 13 Cod fish.
 At 8.20 shifed lines to port side.
 In at 8.30.

	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	4 lbs.	Minim ^m	21	^m
50	20 lbs.	Maxim ^m	33	^m
100	10 lbs.	Average	27 1/4	^m
200				
300	7	Males.	6	Females
400				
500				
600				
700				
800				
900				
1000				

Naked Mollusks. REMARKS. Holothurians -
 Hydroids. Siphonophytes - Large shells
 with Hermits. 1 Large Crab -
 Mollusks - Small Lichens. Phipp.
 Alligator fish - 24 lbs. - star fish
 Small Crabs. Shrimps.

*No.**Date**Machine.**Reel.**Turns**Cor. +**Depth**Shot or lead**Bottom**Bottom temperature**No. of Thermometer**Cor.**Corrected temperature**Air**Surface**Drift.**Trawl or dredge or tangles*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

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

July 19th 1890

12.30 A.M.

Bristol Bay. Standing
watch. About to
come to anchor.