

From
Dredge No 3419 April 11th 1891

Dredge No 3451 Aug 25th 1891

From
Hydro No 2632 Apr 12th 1891

Hydro No 2646 Aug 29th 1891

Mary Reel

1891

Turns	Low	Turns	Low	Turns	Low
0	0	1450	21	2900	83
50	0	1500	23	2946	85
100	0	1550	24		
150	0	1600	26		
200	1	1650	27		
250	1	1700	29		
300	1	1750	31		
350	1	1800	33		
400	2	1850	35		
450	2	1900	37		
500	3	1950	38		
550	3	2000	41		
600	4	2050	43		
650	4	2100	45		
700	5	2150	47		
750	5	2200	49		
800	6	2250	51		
850	7	2300	53		
900	8	2350	56		
950	9	2400	58		
1000	10	2450	61		
1050	11	2500	64		
1100	12	2550	66		
1150	14	2600	68		
1200	15	2650	71		
1250	16	2700	74		
1300	18	2750	76		
1350	19	2800	79		
1400	20	2850	83		

1891.

1891.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

2946	88	2500
733	49	2600
2216	39	2700
	733	2800
	772	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

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

REMARKS:

3 sp. Red Prawns
 3 Sea Urchins
 1 Crab. 1 small fish
 3 shells
 Net came up full of mud

No. 2632 Hy. Date April 12/91.

Sigsbee Machine. Reel. Mary.

Turns 796 Cor. + 42 Depth 838 fms.

Shot or lead 38 lb.

Bottom gn. M.

Bottom temperature 38.5

No. of thermometer 66735 Cor. —

Corrected temperature 38.5

Air 79° Surface 80° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6-05-0	25-0	0		
06-0	24-0	100		
07-0	23-0	200		
08-0	22-30	300		
09-0	21-0	400		
10-0	19-15	500		
11-0	18-15	600		
12-0	17-15	700		
13-0	6-16-0	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

2946

796

2150

88

46

42

SERIAL TEMPERATURES.

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

REMARKS:

No. *3420* Date *April, 12/91*
Sigsbee Machine. Reel. *Star*
 Turns *630* Cor. + *34* Depth *664 fathoms*
 Shot or lead *38 lb.*
 Bottom *dk. gn. M.*
 Bottom temperature *39.6*
 No. of thermometer *66735* Cor. *-*
 Corrected temperature *39.6*
 Air *81°* Surface *82°* Drift *E. 1/2 S. 7/10 m* ^{Mag.}
 Trawl or dredge *Small Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7-26-30</i>	<i>41-15</i>	0	<i>7-48-0</i>	<i>39.00</i>
<i>27-30</i>	<i>40-20</i>	100	<i>52-0</i>	<i>35.30</i>
<i>28-30</i>	<i>39-30</i>	200	<i>57-0</i>	<i>32.30</i>
<i>29-30</i>	<i>38-30</i>	300	<i>8-0-0</i>	<i>29.00</i>
<i>30-30</i>	<i>37-30</i>	400	<i>03.30</i>	<i>26.00</i>
<i>31-30</i>	<i>36-30</i>	500	<i>07.15</i>	<i>23.00</i>
<i>32-30</i>	<i>35-30</i>	600	<i>11.00</i>	<i>20.00</i>
<i>33-0</i>	<i>7-35-0</i>	700	<i>14.45</i>	<i>16.30</i>
		800	<i>18.45</i>	<i>12.00</i>
		900	<i>22.45</i>	<i>07.00</i>
		1000	<i>26.30</i>	<i>9.03.00</i>
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946.	88.	2500	
630.	54.	2600	
2516.	34.	2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

- 1 Octopus
- 2 Medusae

Net evidently dragged into deeper water before getting anything in it.

1071

No. 2633 Hy. S. Date April 12th 1891.

Sigsbee Machine. Reel. Navy.

Turns 868 Cor. + 44 Depth 912 fms.

Shot or lead 38 lbs.

Bottom dk. gn. M.

Bottom temperature 37.0.

No. of thermometer 66735 Cor. -

Corrected temperature 37.0.

Air 82° Surface 82° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9. 42.30	01.00	0		
43.15	10.00.00	100		
44.10	59.15	200		
45.00	58.30	300		
46.00	57.45	400		
46.50	57.00	500		
47.50	56.10	600		
49.00	55.15	700		
51.00	54.15	800		
52.00	9.53.30	868 900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500	
868	44	2600	
	44	2700	
2070	868	2800	
	912	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. 2634 Hy^d. - Date April 12th 1891.

Sigsbee Machine. Reel. Vary.

Turns 570 Cor. + 32 Depth 602 fms -

Shot or lead 38 lbs.

Bottom dk. gn. M.

Bottom temperature 40.0 -

No. of thermometer 66735 Cor. -

Corrected temperature 40.0 -

Air 81° Surface 82° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.42.00	55.00	0		
43.05	54.05	100		
44.00	53.15	200		
45.00	52.25	300		
46.00	51.30	400		
47.05	50.30	500		
47.50	10.49.45	570 600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500
570	56	2600
2380	32	2700
	570	2800
	602	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

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

REMARKS:

1007.
JEB

No. 3421 Dr. Date April 12th 1891.

Sigsbee Machine. Reel. Vary.

Turns 367 Cor. + 21 Depth 388 fms.

Shot or lead 38 lbs.

Bottom dk. gn. M.

Bottom temperature 43.1.

No. of thermometer 66735 Cor. -0.2

Corrected temperature 42.9 - 1/2 mile. May

Air 82° Surface 82° Drift N. E. 3/4 E.

Trawl or dredge Small Beam & Dredge.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.23.45	32.00	0	11.32.30	19.30
24.45	31.00	100	36.30	16.15
25.30	30.05	200	40.00	12.30
26.30	29.15	300	43.30	09.00
27.00	11.28.30	367	47.00	04.50
		400	48.30	12.03.30
		420		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500
367	67	2600
<u>2580</u>	<u>21</u>	2700
	367	2800
	<u>388</u>	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

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

REMARKS:

4 doz Small Macrurus, 1 sp.
P.

5076 B

No. 3422 *SV* Date April 12^L 1891
Sigsbee Machine. Reel. Navy
 Turns 133 Cor. + 8 Depth 141 fms
 Shot or lead 38 lb
 Bottom gn. m
 Bottom temperature 53.5
 No. of thermometer 66735 Cor. -0.2
 Corrected temperature 53.3
 Air 84 Surface 83 Drift —
 Trawl or dredge Small beam and dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	P.M. UP.		DOWN.	UP.
12 28 00	32 00	0	12 35 25	16.00
29.00	31 00	100	39.25	11.50
29.10	12 30.45	133	43.35	1.07.45
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946
133
—
2813
50
80
—
8

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

SERIAL TEMPERATURES.

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

REMARKS:

3 Macrurus
1 Squid
1 Flounder

No. 3423 *SV* Date April 12th 1891*Sigsbee* Machine. Reel. *Navy*

Turns 89 Cor. + 5 Depth 94 fms

~~Shot or lead~~ 38 lbBottom *gn. M*

Bottom temperature 56°

No. of thermometer 66735 Cor. - 0.2

Corrected temperature 55.8 -

Air 84 Surface 83 Drift —

Trawl or dredge *Small Beam Trawl*

SOUNDING WIRE.

DREDGE ROPE.

<i>P.M.</i> DOWN.	<i>P.M.</i> UP.	TURNS.	<i>P.M.</i> DOWN.	<i>P.M.</i> UP.
1.28.00	31.00	0	1.31.00	08.10
29.00	1.29.10	100	37.00	01.20
		150	39.30	2.00.00
		200	44.00	1.56.18
		250		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946
89
2855

88
83

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

SERIAL TEMPERATURES.

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

REMARKS:

1 sp. Crat
1 sp. Fish

Very few specimens

507.
449

No. 17° 39' 30" N. Date April 16/91.
102° 11' 30" W Machine. Reel.

Turns Cor. + Depth 73

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 77 Surface 76 Drift

Trawl or dredge Outmarine Trawl

SOUNDING WIRE		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10-10-0	47-0	0		
10-16-0		100		
		75		
		200		
10-20-0	10-32-0	230		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Wires sent down at 175 fms.
Net hauled slowly to surface from
230 fms. 176 fms.

Surface Trawl was over the end
10 minutes

The sub. marine Trawl was dragged
16 minutes at a depth of 176 fms. Builde
failed and lower net failed to close.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

Few pteropods - 2 species.
 " small crustacea - 2 sp.
 Sagitta, etc.

No. 2635 Hy^d. Date April 18th 1891.
 Sigsbee Machine. Reel. Navy.
 Turns 1944 Cor. + 78 Depth 2022 fms.
 Shot or lead 60 lbs.
 Bottom dk. gn. M.
 Bottom temperature 36.0 -
 No. of thermometer 66735 Cor. -
 Corrected temperature 36.0 -
 Air 72 Surface 74 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.05.00	47.00	0		
06.10	46.05	100		
07.10	45.30	200		
08.05	44.50	300		
09.05	44.10	400		
10.00	43.30	500		
10.55	42.50	600		
11.45	42.00	700		
12.40	41.15	800		
13.35	40.20	900		
14.40	39.30	1000		
15.45	38.35	1100		
16.50	37.35	1200		
18.00	36.35	1300		
19.10	35.35	1400		
20.15	34.20	1500		
21.30	33.10	1600		
22.45	31.50	1700		
24.05	30.30	1800		
26.00	28.45	1900		
26.45	5.27.30	1944 2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500
19.44	10	2600
10.00	78	2700
	19.44	2800
	2022	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

A.M.

H.C.D.

P.M.

7:53 down 6:15 SERIAL TEMPERATURES. 6:19 up 6:35

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
946 25	65.4	69473	0.0	65.4
896 50	59.3	54815	-0.3	59.0
848 100	54.6	61755	0.0	54.6
754 200	50.2	69485	-0.4	49.8
659 300	45.0	66665	-0.2	44.8
565 400	42.2	63919	-0.0	42.2
470 500	41.0	66724	+0.1	41.1
377 600	40.0	63903	-0.2	39.8
281 700	38.8	69477	-0.1	38.7
188 800	38.0	69480	+0.1	38.1
94 900	37.9	51451	-0.3	37.6
1000	37.2	66735	0.2	37.0

REMARKS:

66	75	
72		
6	6	4 11
	81	117
66		31
15		

No. 2636 Key Date April 18. 1891

Sigsbee Machine. - Reel. Navy

Turns 2022 Cor. + 80 Depth 2102 fms

Shot or lead 35-lb

Bottom gn. of. with bk sp.

Bottom temperature 35.8

No. of thermometer 66735 Cor. -

Corrected temperature 35.8

Air 73 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
8. 49. 15	35. 00	0		
50 20	34. 10	100		
51 25	33. 45	200		
52 25	33. 15	300		
53. 28	32. 45	400		
54. 35	32. 00	500		
55. 45	31. 15	600		
57. 05	30. 35	700		
58. 05	29. 20	800		
59. 25	29. 00	900		
00 40	28. 15	1000		
01. 55	27. 25	1100		
03 25	26. 35	1200		
05. 00	25. 40	1300		
06. 30	24. 50	1400		
08 00	23. 50	1500		
09. 30	22. 50	1600		
11. 15	21. 50	1700		
12 50	20. 50	1800		
14. 30	19. 50	1900		
16. 15	18. 25	2000		
16. 45	17. 20	2022		
		2100		
		2200		
		2300		
		2400		

2946
 2022
 924
 80

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

SERIAL TEMPERATURES.

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

REMARKS:

No. 3424

Date Apr 18th 1891

Sigsbee Machine.

Reel. Tany.

Turns 638 Cor. + 38

Depth 676 fms

Shot or lead 35 lb

Bottom gy S bk sp. mch glob

Bottom temperature 38°

No. of thermometer 66735 Cor. -

Corrected temperature 38.0 -

Air 76

Surface 76

Drift 1 K NW

Trawl or dredge

Small

Beam

SOUNDING WIRE.

DREDGE ROPE.

fm	SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
	DOWN.	UP.		DOWN.	UP.
11.02.00		15.10	0	11.18.10	10-0
02.55		14.40	100	22.10	06-0
04.00		14.10	200	26.10	1-1-30
05.00		13.25	300	30.15	56-0
06.00		13.00	400	34.20	50-0
07.05		12.30	500	38.45	42-30
09.10		11.10	600	42.45	35-0
09.25	11.10.10		700	46.50	27-0
			800	52.10	12-18-0
			900		
			1000		
			1100		
			1200		
			1300		
			1400		
			1500		
			1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		

7946
638
2208

55
50
38

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

SERIAL TEMPERATURES.

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

REMARKS:

1 doz. *Macrurus*,
10 " *Comatula* (crinoids)
7 or 8 sp. *prawns*,
2 doz. *Pennatulula*
3 " *Umbellula*
Large star, *serpulid* tubes, sponge
with glass spicules

No.

3425 Dr.

Date

April 18/9.

Machine.

Reel.

Tory.

Turns

645 Cor. + 85

Depth

680 fms

Shot or lead

38 lbs

Bottom

gn m s

Bottom temperature

39.2

No. of thermometer

66735

Cor.

Corrected temperature

39.0 -

Air

75

Surface

76

Drift $\frac{1}{2}$ N N W

Trawl or dredge

Omae Beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1- 57-30

11-50

0

58-30

11-0

100

17-20

23-0

59-20

10-20

200

20-30

20-20

2- 0-25

09-50

300

24-30

17-0

1-20

09-0

400

17-30

14-0

2-25

08-0

500

30-30

11-0

3-30

07-0

600

34-0

08-0

4-0

06-10

700

38-30

04-0

800

43-0

3-0-0

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Not came up torn

2946	88	2500	
645	53	2600	1
301	5.5	2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

Cellular glass sponges, *Sergoidea*,
 6 sp. prawns, few Crinoids,
 Small mollusks, small crabs
 Fishes - *Macrurus*, batfish, *Lycodes*,
Bathypteroides (six specimens)
Ophiurus, 2 or 3 sp. starfish
 (small haul)

No. *3426* Date *April 18/91**Dodge* Machine. Reel. *Navy*Turns *138* Cor. + *8* Depth *146*Shot or lead *35 lbs*Bottom *fine gy. S. Rky.*Bottom temperature *51.4*No. of thermometer *66735* Cor. *-0.2*Corrected temperature *51.2*Air *75* Surface *76* DriftTrawl or dredge *Small Beam*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*3-36-30**42-0**0**3-45-0**58-15**37-15**3-38-30**100**52.0**3-51-0**98**200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*

2946	88	2500	
138	80	2600	
2808	8	2700	
	138	2800	
	146	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

1 Immense Rock
 few Worms. few Ophiurans.

No. 3427 *Dr.* Date April 18th 1891.

Reeling Engine - Machine. Reel. Navy.

Turns — Cor. + — Depth 80 fms.

Shot or lead Tangle Irons.

Bottom Rky.

Bottom temperature 51.4

No. of thermometer 66735 Cor. -0.2

Corrected temperature 51.2 - 4/10 mile.

Air 75° Surface 76° Drift North.

Trawl or dredge Tangles.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3. 36.30	42.00	0	4. 03.00	23.00
37.15	3.38.30	100	07.30	4.19.00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

1 shell.
 3 Small Crabs.
 Sargonia.

No. 3428 *Dr.* Date April 18th 1891.Sigsbee Machine. Reel. *Hand.*

Turns 225 Cor. + 13 Depth 238 fms.

~~Shot or lead~~ 38 lbs.Bottom *dk. gy. S. + Glob.*

Bottom temperature 48.3 -

No. of thermometer 66735 Cor. -0.2

Corrected temperature 48.1

Air 75 Surface 76 Drift *N.W. 1/2*Trawl or dredge *Small Beam & Swabs.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.31.00	37.15	0	6.40.00	33.00
32.10	36.15	100	44.30	29.00
33.15	35.15	200	48.30	24.45
33.30	6.35.00	225 300	52.30	20.00
		400	57.30	16.30
		475 500	7.00.00	7.13.30
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2948	88	2500
225	25	2600
2720	13	2700
	225	2800
	238	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000	Poor Haul, Mud & Shells.			

REMARKS:

1 Shrimp.
 1 Paper Nautilus. tiny Fish

No. 3429 ^{Dr} Date April 19^d 1891
 Sigsbee Machine. Reel. Navy
 Turns 875 Cor. + 44 Depth 919 fms
 Shot or lead 35 lbs. gn. sy. Rky.
 Bottom gn. m. & glob. co. with forams & rky.
 Bottom temperature 37.5
 No. of thermometer 66735 Cor. —
 Corrected temperature 37.5
 Air 73 Surface 73 Drift NW x W 1.2
 Trawl or dredge Small beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5 05.10	26.05	0	5.39.00	49.10
06.10	25.15	100	43.50	45.45
07.10	24.25	200	47.53	43.30
08.15	23.35	300	51.53	40.00
09.20	22.45	400	55.15	36.10
10.35	21.55	500	59.05	33.33
11.50	20.55	600	6.04.00	30.30
13.10	19.45	700	07.35	27.00
14.20	18.40	800	12.05	24.25
15.00	16.30	875 900	16.20	20.55
		1000	19.53	17.25
		1100	24.20	14.00
		1200	28.53	10.15
		1300	32.10	06.15
		1400	36.50	7.01.20
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946
 875
 2071
 88
 44
 44

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600	Note torn.	Net came up badly		
700				
800				
900				
1000				

REMARKS:

Gorgonia - with long-armed ophiurans
 few Munida — Net torn

No. *3430* Date *April 19/91*
Lige Machine. Reel. *Large*

Turns *810* Cor. + *42* Depth *852 fms*

Shot or lead *35 lbs*

Bottom *bk s*

Bottom temperature *37.9*

No. of thermometer *66735* Cor. *-*

Corrected temperature *37.9* *5.10 miles*

Air *74* Surface *73* Drift *N. W.*

Trawl or dredge *Small Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-04-0</i>	<i>21-0</i>	0	<i>3-27-0</i>	<i>34.00</i>
<i>05-0</i>	<i>23-0</i>	100	<i>30-40</i>	<i>30.30</i>
<i>05-55</i>	<i>22-0</i>	200	<i>34-0</i>	<i>27.30</i>
<i>06-50</i>	<i>20-30</i>	300	<i>38-0</i>	<i>24.00</i>
<i>08-0</i>	<i>19-0</i>	400	<i>42-0</i>	<i>20.30</i>
<i>09-0</i>	<i>17-0</i>	500	<i>46-0</i>	<i>17.00</i>
<i>10-0</i>	<i>16-0</i>	600	<i>50-0</i>	<i>13.30</i>
<i>11-0</i>	<i>15-0</i>	700	<i>54-0</i>	<i>09.15</i>
<i>12-0</i>	<i>3-14-0</i>	800	<i>58-0</i>	<i>05.00</i>
		<i>840</i>	<i>4.01.00</i>	<i>5 00.00</i>
		900	<i>04.30</i>	<i>44.45</i>
		1000	<i>08.00</i>	<i>40.30</i>
		1100	<i>12.15</i>	<i>36.00</i>
		1200	<i>16.30</i>	<i>4.31.00</i>
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500
810	46	2600
2156	42	2700
		2800
		2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	Gone from bottom - about a basket in the net <u>Amigdaloid</u> * <u>Trap</u>			
300				
400				
500				
600				
700				
800	Left lined runner torn from frame. Nothing in net but a few small stones.			
900				
1000				

REMARKS: few Crinicon Prawns. 2 or 3 small
fishes. 1 Macrurus. 1 small flat
fish. fragments of siliceous sponges
1 Crustacean. 2 small Gorgonia.

No. *3431* Date *April 20th 1891*
Sigsbee Machine. Reel. *Hand*
 Turns *948* Cor. + *44* Depth *992 fms*
 Shot or lead *35 lbs*
 Bottom *ft. br. m. with glob.*
 Bottom temperature *37°*
 No. of thermometer *66735* Cor. *-*
 Corrected temperature *37.0-*
 Air *69* Surface *70* Drift *1 K NNW 1/4 W*
 Trawl or dredge *Small beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
<i>6 03.30</i>	<i>27.30</i>	0	<i>6.33.05</i>	<i>55-0</i>
<i>04.35</i>	<i>26.50</i>	100	<i>36.35</i>	<i>51-0</i>
<i>05.40</i>	<i>25.45</i>	200	<i>41.00</i>	<i>47-30</i>
<i>06.50</i>	<i>22.25</i>	300	<i>45.00</i>	<i>44-0</i>
<i>08.05</i>	<i>21.30</i>	400	<i>48.20</i>	<i>40-30</i>
<i>09.15</i>	<i>20.50</i>	500	<i>51.40</i>	<i>37-30</i>
<i>10.25</i>	<i>21.05</i>	600	<i>55.10</i>	<i>34-0</i>
<i>11.35</i>	<i>20.10</i>	700	<i>58.40</i>	<i>31-0</i>
<i>12.50</i>	<i>19.15</i>	800	<i>7.02.30</i>	<i>28-0</i>
<i>15.57</i>	<i>18.45</i>	900	<i>05.15</i>	<i>24-30</i>
<i>16.45</i>	<i>6.17.00</i>	1000	<i>08.55</i>	<i>20-30</i>
		1100	<i>13.45</i>	<i>15-0</i>
		1200	<i>17.10</i>	<i>10-0</i>
		1300	<i>20.50</i>	<i>06-0</i>
		1400	<i>25.05</i>	<i>8-01-0</i>
		1500	<i>28.05</i>	<i>7-56-0</i>
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946 948 <u>1998</u>	88 47 <u>948</u> 995	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500	few Pycnospodina			
600	1/2 doz sp. Holothurians			
700	large Dentalias & some			
800	small shells.			
900	large brown foraminifera			
1000				

Mammals - REMARKS: Batypterois
 1 dy. species rare Star
 1/2 " " Ophiurans
 1/2 " " rare Cochinis
 few Crabs & Traps
 long Pennatulac with Ophiurans
 attached Muddy haul.

1007.
J.E.B.

No. 3432 *Dr.* Date April 20th 1891.
Sigsbee Machine. Reel. Navy.

Turns 1359 Cor. + 62 Depth 1421 fms.

Shot or lead 35 lbs.

Bottom fm. M. Gk. Sp.

Bottom temperature 37.8-

No. of thermometer 66735 Cor. -

Corrected temperature 37.8-

Air 72° Surface 70° Drift —

Trawl or dredge Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	UP.		P.M. DOWN.	P.M. UP.
2.01.00	31.00	0	2.38.00	19.12
02.15	30.15	100	42.00	16.10
03.20	29.35	200	46.00	12.35
04.20	29.00	300	49.30	09.15
05.30	28.15	400	53.00	05.35
06.35	27.30	500	56.45	02.25
07.45	26.45	600	3.00.00	58.10
09.00	26.00	700	03.30	54.55
10.10	25.05	800	07.15	51.50
11.20	24.10	900	11.30	47.30
12.40	23.15	1000	15.15	44.00
14.00	22.15	1100	19.00	39.45
15.20	21.15	1200	23.00	36.05
16.45	20.10	1300	27.00	32.40
18.00	2.19.30	1359 1400	31.00	24.15
		8 ¹⁰⁰⁰ 1500	34.45	10.00
		1600	38.30	5.03.30
		1700	42.30	57.10
		1800	46.30	40.15
		1900	51.00	34.15
		2000	55.15	15.30
		2100	4 00 10	4.04.35
		2200		
		2300		
		2400		

2946	88	2500	
1359	26	2600	
1587	62	2700	
	1359	2800	
	1421	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>note</i> <i>Trawl bump gone away and</i> <i>trawl came up capped and</i> <i>net torn</i>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

7 spc *Holothurians*
 2 sps *Sea Anemonies*
Dentalia. Shells. A few chips

No. *3433 Dr.* Date *April 21/91*
Sigsbee Machine. Reel. *Star*
 Turns *1162* Cor. + *56* Depth *1218 fms.*
 Shot or lead *35 lbs*
 Bottom *m. m. bk. sp.*
 Bottom temperature *36.5*
 No. of thermometer *66735* Cor. -
 Corrected temperature *36.5*
 Air *73* Surface *69* Drift *1.5 miles NW*
 Trawl or dredge *Small Beam*

SOUNDING WIRE		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
<i>6-2-30</i>	<i>21-0</i>	0	<i>6-34-0</i>	<i>32.00</i>
<i>03-50</i>	<i>27-0</i>	100	<i>38-0</i>	<i>28.15</i>
<i>04-15</i>	<i>26-0</i>	200	<i>42-0</i>	<i>25.15</i>
<i>05-10</i>	<i>25-0</i>	300	<i>45-30</i>	<i>21.45</i>
<i>06-15</i>	<i>24-0</i>	400	<i>49-50</i>	<i>18.30</i>
<i>07-10</i>	<i>23-0</i>	500	<i>53-30</i>	<i>15.00</i>
<i>08-05</i>	<i>22-0</i>	600	<i>57-0</i>	<i>11.15</i>
<i>09-0</i>	<i>21-0</i>	700	<i>7-0-50</i>	<i>07.30</i>
<i>10-0</i>	<i>20-0</i>	800	<i>14-30</i>	<i>03.45</i>
<i>11-0</i>	<i>19-0</i>	900	<i>08-0</i>	<i>9.00.00</i>
<i>12-0</i>	<i>18-0</i>	1000	<i>12-0</i>	<i>57.00</i>
<i>13-30</i>	<i>16-45</i>	1100	<i>16-0</i>	<i>53.45</i>
<i>14-30</i>	<i>6-16-0</i>	1162	<i>20-30</i>	<i>50.00</i>
		1200		
		1300	<i>25-0</i>	<i>46.30</i>
		1400	<i>29-0</i>	<i>42.00</i>
		1500	<i>33-0</i>	<i>38.15</i>
		1600	<i>37-0</i>	<i>34.30</i>
		1700	<i>41-0</i>	<i>30.30</i>
		1800	<i>45-0</i>	<i>27.30</i>
		1850	<i>50-0</i>	<i>8.26.00</i>
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Found surface net-
 while dredging.
 at 6-5-10
 up 7-12-0*

*Mainly Crustacea
 a few free swimming
 mollusks.*

2946	88	2500	
1162	82	2600	
1784	56	2700	
	1162	2800	
	1218	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

Nothing at all. Water haul.

No. 3434 Dr. Date April 21st 1891.

Sigsbee Machine. Reel. Navy.

Turns 1520 Cor. + 68 Depth 1588 fms.

Shot or lead 38 lbs.

Bottom fn. M. H. Sp.

Bottom temperature 36.4 -

No. of thermometer 66735 Cor. -

Corrected temperature 36.4 -

Air 71° Surface 70° Drift None

Trawl or dredge Small Beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9. 38.00	10.45	0	10. 14.00	55-30
39.00	09.50	100	18.15	44-30
39.50	09.10	200	21.30	39-0
40.40	08.30	300	25.15	33-0
41.30	07.45	400	29.00	29-0
42.25	07.00	500	32.45	25-30
43.30	06.10	600	35.15	21-0
44.30	05.20	700	38.45	17.00
45.35	04.30	800	45.00	12.00
46.45	03.35	900	48.45	07.00
48.00	02.40	1000	52.45	5.02.00
49.10	01.40	1100	57.00	07-0
50.25	10.00.30	1200	11. 02.00	51-0
51.50	59.30	1300	05.45	45-0
53.10	58.15	1400	09.15	40-0
54.30	57.00	1500	13.00	34-0
54.50	9. 56.45	1520	16.45	4-28-0
		1600		
		1700	20.45	28.30
		1800	24.15	3, 09.10
		1900	28.15	41.00
		2000	32.15	07.10
		2100	36.15	2, 02.15
		2200	40.15	48.30
		2300	44.15	42.30
		2400	48.30	36.00

2946	88	2500	12.05.05	25.55
1520	20	2600	12.30	19.30
1430	68	2700	28.20	14.05
	1520	2800	51.35	1.10.12
	1588	2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

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

REMARKS:

3 sp. Holothurans
 2 " Fish
 some worm Tubes

Handwritten: 107.

No. 3435 Dr. Date April 22^d 1891.

Sigsbee Machine. Reel. Navy.

Turns 817 Cor. + 42 Depth 859 fms.

Shot or lead 38 lbs.

Bottom fm. m. bk. sp.

Bottom temperature 37.3.

No. of thermometer 66735 Cor. -

Corrected temperature 37.3 -

Air 72° Surface 70° Drift 1/4 NW 1/4 N

Trawl or dredge Small Beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
03.45	20.00	0	8.56.30	11.00.00
04.40	19.20	100	9.00.00	56.00
05.40	18.45	200	03.30	53.00
06.45	18.00	300	07.30	50.00
07.45	17.15	400	11.15	47.15
08.40	16.20	500	15.00	44.30
09.40	15.30	600	18.45	41.00
10.45	14.30	700	22.30	37.30
11.50	13.25	800	26.15	34.00
12.05	8.13.00	817 900	29.45	30.15
		1000	33.30	26.45
		1100	37.45	22.30
		1200	41.30	18.30
		1300	44.30	10.16.00
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500
817	46	2600
2130	42	2700
	817	2800
	859	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

Down 8:25 A.M. 8:35 SERIAL TEMPERATURES. 8:39 A.M. 8:52 Up

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
635	65.6	61755	0.0	65.6-
25				
612	59.4	66665	-0.2	59.2-
50				
565	54.5	69485	-0.4	54.1-
100				
470	49.7	66724	+0.1	49.8-
200				
377	51.0	69480	+0.1	51.1-
300				
381	41.7	63919	+0.1	41.8-
400				
188	40.5	63903	-0.2	40.3-
500				
94	39.3	69477	0.0	39.3-
600				
261	38.6	51451	-0.1	38.5-
700				
800				
900				
1000	2 Meters. Many small rare			

Pennatulæ; REMARKS: 4¹ (1 new) sps. Crinoid
 Prawns; 2 or 3 sps. Ophiurans. small.
 2 doz. large white Anemones / 1 sps. Long
 1 New White Holothurian; Jarred Ophiurans
 3 or 4 sps. Other Holothurians. 1 sps. Large Stars.
 Lycodes; Minida Crabs; a variety of
 Worms; Crustaceans.

No. 3436 Date April 22^d 1891.

Machine. Reel. Navy

Turns 861 Cor. + 44 Depth 905 fms

Shot or lead 38 lbs

Bottom *gray brn m bk. sp.*

Bottom temperature 37.2

No. of thermometer 66 735 Cor.

Corrected temperature 37.2

Air 75° Surface 72° Drift 1 mile N. N. W.

Trawl or dredge *Submarine winch
Small beam.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1. 03 20	21.25	0	3. 10.20	15.00
14 15	20.40	100	14.30	11.30
05. 15	20.00	200	18.20	07.45
06. 05	19.45	300	21.50	04.15
07. 10	18.20	400	26.00	5.00 30
08. 10	17.20	500	29.30	57-0
10 10	16.25	600	33.10	54-6
10 10	15.25	700	36.50	49-30
11. 15	14.25	800	39.05	46-0
11. 33	14.15	900	43.10	42-0
		1000	47.55	39-0
		1100	51.30	36-0
		1200	55.36	33-0
		1250	4-4 -15	4-29-0
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Reeled submarine net 260 fms.
 down 15 min at an angle to make the-
 depth 8.10 p.m. Sent message down at-
 8.00 p.m. When net came to surface
 found that the gump had pulled and dis-
 not close properly, and had dragged
 in the bottom.

Submarine Tow Net
 P.m. P.m.

0	1. 22. 10	3. 04. 10
2500	25. 50	57. 25
2600	29. 15	58. 10
2700	32. 20	59. 40
2800	36. 50	1. 09. 50
2900	39. 30	46. 00
3000	44. 10	41. 20
3100	47. 10	37. 15
3200	50. 55	21. 20
3300	57. 00	16. 55
3400	2. 00. 05	2. 15. 30
3500	80 fms	
3600	Missing from	
3700	Started	
3800	2. 24. 02	
3900	Down	
4000	Diff	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Contents of submarine net Nothing.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Large holothurians 2 sp.
 2 gts of shrimp.
 3 sp. prawns. 2 white anemones
 1 large fish (Mayraea?) small Lyodes,
 Macrurus, etc. Munida crabs
 Variety of worms, small shells,

No. *2637 Hy* Date *April 22/95*
Sigsbee Machine. Reel. *Crang*

Turns *735* Cor. + *38* Depth *1773*

Shot or lead *38 lbs.*

Bottom *br m bk sp*

Bottom temperature *38.0*

No. of thermometer *66735* Cor. —

Corrected temperature *38.0*

Air *72* Surface *71* Drift

Trawl or dredge *Submarine Clam Net*

SOUNDING WIRE.		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
<i>7-2-0</i>	<i>19-0</i>	0	<i>7-21-0</i>	<i>12.30</i>
<i>3-0</i>	<i>18-0</i>	100	<i>45-0</i>	<i>06.50</i>
<i>4-0</i>	<i>17-0</i>	200	<i>30-0</i>	<i>9.00 55</i>
<i>5-0</i>	<i>16-0</i>	300	<i>35-0</i>	<i>07.45</i>
<i>6-0</i>	<i>15-0</i>	400	<i>40-0</i>	<i>52.00</i>
<i>7-0</i>	<i>14-0</i>	500	<i>45-0</i>	<i>47.45</i>
<i>8-0</i>	<i>13-0</i>	600	<i>50-0</i>	<i>40.15</i>
<i>9-0</i>	<i>7-17-0</i>	700	<i>55-0</i>	<i>24.35</i>
		<i>735</i>	<i>8-02.30</i>	<i>20.30</i>
		800	<i>04-00</i>	<i>8.17.30</i>
		<i>850</i>		
		900		
		1000	<i>down</i>	<i>8.30.58</i>
		1100	<i>back</i>	<i>37.58</i>
		1200	<i>diff</i>	<i>7.00</i>
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

5446	88	2500
735	50	2600
	38	2700
2211	735	2800
50		2900
61	778	3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

But main net lowered down to 850
fms. lowered 15 min. at a sample pulled
the depth 700 fms. lowered in to
700 fms and sent down messenger

SERIAL TEMPERATURES.

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

REMARKS:

a few red shrimp. 2 or 3 sp.
1 *Netastomat*
Several kinds small crustacea & other
surface life

HC 31.
007.

No. *3437* *Dr.* Date *April 23^d 1891-*
Sigsbee Machine. Reel. *Navy.*

Turns *596* Cor. + *32* Depth *628 fms.*

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

Bottom *bn. M. Gk. Sp.*

Bottom temperature *40.*

No. of thermometer *66735* Cor. *-*

Corrected temperature *40.0 -*

Air *71* Surface *70* Drift

~~Trawl or dredge~~ *Submarine Tonnnet.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.04.00</i>	<i>18.00</i>	<i>0</i>		
<i>05.15</i>	<i>17.00</i>	<i>100</i>		
<i>06.30</i>	<i>16.15</i>	<i>200</i>		
<i>07.45</i>	<i>15.25</i>	<i>300</i>		
<i>09.00</i>	<i>14.35</i>	<i>400</i>		
<i>10.15</i>	<i>13.45</i>	<i>500</i>		
<i>11.25</i>	<i>5.12.50</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>		

2946	88	2500
596	56	2600
2350	32	2700
	596	2800
H.C. 2.	628	2900
Submarine	2000	3000
5.31.00	57.00	3100
37.15	53.15	3200
42.00	49.30	3300
46.30	45.30	3400
50.30	41.30	3500
54.30	38.00	3600
56.30	37.00	3700
stopped 6.01.30	x 26.15	3800
08.00	6.20.30	3900
		4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	At 5:28 stopped 5 minutes; then lowered			
50	again.			
100	x Messenger down at			6.31.30
200	Time min. 4 sec. 00.			35.30
300				
400				
500	Note. Net dragged on bottom			
600	reave up filled with			
700	mud.			
800	Tried at a depth of 600 fms.			
900	for 15 minutes			
1000	Lowered to 660 fms. at an angle of $-\frac{1}{2}^{\circ}$.			

Sea Urchins.
 Few Shrimps. Worm tubes.
 Holothurians. few Ophiurans.
 2 sps. Small Fish

REMARKS:

NO. 307

26384

No. *26384* Date *April 23^d 1891*
Sigsbee Machine. Reel. *Navy.*

Turns *590* Cor. + *32* Depth *622 fms.*

~~Shot or lead~~ *38.*

Bottom *fn. m. bk. sp.*

Bottom temperature *39.2*

No. of thermometer *66735* Cor. *-*

Corrected temperature *39.2*

Air *72°* Surface *72°* Drift

Trawl or dredge *Submarine Trawl*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.06.30</i>	<i>24.00</i>	0		
<i>07.20</i>	<i>23.20</i>	100		
<i>08.10</i>	<i>22.40</i>	200		
<i>11.30</i>	<i>21.55</i>	300		
<i>13.15</i>	<i>21.10</i>	400		
<i>14.45</i>	<i>20.20</i>	500		
<i>17.15</i>	<i>7.19.00</i>	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2946	88	2500
590	56	2600
2360	32	2700
	590	2800
Am	622	2900
	Am	
7.26.00	87-0	3000
31.30	53-50	3100
35.45	30-0	3200
40.00	26-30	3300
44.00	23-0	3400
48.00	11-0	3500
51.00	8-08-0	3600
		3700
		3800
		3900
		4000

Lowered Net to 510 fathoms remained at bottom 15 minutes - Hauled Net up to 500 fathoms at 8-11-0
 Net messenger down at 8-14-0 resurged
 Went down in 4 min -
 Net up at 8-37-0

SERIAL TEMPERATURES.

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

REMARKS:

Few Pteropods Few small
 & small Fish Crustaceans

No. 3438 Dr. Date August 8th 1891

Tanner Machine. — Reel. —

Turns 20 Cor. + 0 Depth 20 fms

~~Shot or lead~~ 26 lbs.

Bottom

Bottom temperature did not capsize

No. of thermometer 66735 Cor. —

Corrected temperature —

Air 49 Surface 45 Drift $\frac{1}{2}$ mi. S. N. x W.

Trawl or dredge Small beam (Mag.)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.59.45	11.00.30	0	11.04.15	22.00
		60	06.55	11.20.00
		100		
		200	11.22.50	40.25
		300	28.25	11.37.25
		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 TEMPERATURES.

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

REMARKS:

Limanda aspera, 1 young *Lepidopssetta bi-*
lineata, young sculpins & codfish,
 10 starfish - 2 sp., 1 Pycnogonid, 1 red naked
 mollusk, 1 stalked ascidian, 1 urchin,
 few hermit crabs, 2 sp. shrimps,
 small quantity bryozoa, 1 sponge & hydroid

507
J. C. B.

No. 2639 Hy. ² Date Aug 3^d 1891
Sanner Machine. Reel.

Turns 30 Cor. + 1 Depth 31 fms

Shot or lead 26 lbs

Bottom bk. P. Sh.

Bottom temperature did not capsize.

No. of thermometer 66735 Cor. —

Corrected temperature —

Air 49 Surface 45 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.41.10	11.43.00	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 TEMPERATURES.

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

REMARKS:

No. *3439 Dr.* Date *Aug. 3^d 1891.*

Tanner Machine. - Reel.

Turns *38* Cor. + *3* Depth *41 fms.*

Shot or lead *26 lbs.*

Bottom *fine Hk. S.*

Bottom temperature *44° -*

No. of thermometer *66735* Cor.

Corrected temperature

Air *50°* Surface *44°* Drift *3/4 mi. S. 7r. x W.*

Trawl or dredge *S. B.* (Mag.)

SOUNDING WIRE.

DOWN.

UP.

TURNS.

PM DREDGE ROPE.

DOWN.

UP.

<i>12.26.15</i>	<i>27.30</i>	<i>0</i>	<i>12.29.00</i>	<i>1.02.30</i>
<i>26.30</i>	<i>12.26.40</i>	<i>100</i>	<i>35.00</i>	<i>59.00</i>
		<i>120</i>	<i>37.00</i>	<i>12.57.30</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>		

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000	3 Lycote. Agonidae. Sculpins.			

Medusae. REMARKS: 3 sps. Crabs.
 Ophiurans. 3 sps. Star fish.
 Shells and Hermit Crabs.
 2 sps. Shrimps. Sponge.
 Alligator fish. 2 sps. Fish.
 Ascidian stalks. Sand cakes
 1 Pyrosomid.

1757

No. 3440 Dr. Date August 3rd 1891.
 Tanner Machine. — Reel.

Turns 46 Cor. + 2 Depth 48 fms.

Shot or lead 26 lbs.

Bottom bk. M. sh.

Bottom temperature —

No. of thermometer 66735 — Cor. lost.

Corrected temperature — 1 mi.

Air 49 Surface 46 Drift S. N. x N.

Trawl or dredge S. B. (Mag.)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1. 35. 30	37. 00	0	1. 39. 00	12. 30
36. 00	1. 36. 10	100	45. 30	09. 30
		160	48. 30	2. 06. 00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Put 7 hand lines over port side
 at 2:15 P.M. in at 2.00.

Catch: Mix.

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<u>Lost thermometer #66735.</u>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000	3 spp. Edible Shrimps.			(1 spp. a

Large Red Brown.) Worms

REMARKS: 5 sp. small shells, 10 very large Trophon.
 12 large crabs, few hermits, dog, tar cod
 1 Hemitripterus sculpin, gel. pouts,
 Agonidae, few, 3 bushel optarians,
 1 peak small holothurians

K.C.

No. *3441 Dr* Date *August 3^d 1891.*
Tanner Machine. — Reel.

Turns *48* Cor. + *3* Depth *51 fms.*

Shot or lead *26 lbs.*

Bottom *H. M. Sh.*

Bottom temperature *39°*

No. of thermometer *69476* Cor.

Corrected temperature

Air *49°* Surface *48°* Drift *1 mi. S. W.*

Trawl or dredge *S. B.* (*Mag.*)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3. 10. 30</i>	<i>12. 00</i>	0	<i>3. 12. 00</i>	<i>48. 30</i>
<i>11. 00</i>	<i>3. 11. 10</i>	100	<i>17. 00</i>	<i>45. 00</i>
		160	<i>21. 00</i>	<i>3. 42. 00</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

4 bu Aphurians 1 bu large Crabs
 few large medusa.
 doz. of large & small Shells.
 fresh red Prawns. few Shrimps
 1 Pollock, few Eel Pouts
 small Agonids, few Ascidians

No.

3442 *Dr*

Date

Aug. 3/91.

Ganner

Machine.

Reel.

Turns

45

Cor. +

2

Depth

47.

Shot or lead

26 lbs

Bottom

Bl. M. + sh.

Bottom temperature

400

No. of thermometer

69476

Cor.

Corrected temperature

Air

50.

Surface

50.

Drift

7/10 N 9W

Trawl or dredge

Small Beam

1/2 N

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

4-37-30

4-48-0

0

4-43-0

09.30

39-0

100

48-30

5-04.30

150

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Inverted Quail
 Dradgins
 Small brachio medusae, & red medusae,
 amphipods & larval crustacea

(Mag.)

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

SERIAL TEMPERATURES.

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

REMARKS:

2 doz. Tom. cod, 2 flounders (*Lirionda aspera*)
3 bushel of Minicams, peck small holothurians
30 large shells (Droghda), peck shrimps
2 el. pouts & Agonidae a few, few starfish
3 sp. shrimps, bushel large crabs - 2 sp.

No. *2640 Hy* Date *Aug 31 91*
Sanner Machine. Reel.

Turns *40* Cor. + *2* Depth *42*

Shot or lead *26 lbs.*

Bottom *Rky.*

Bottom temperature *42.2*

No. of thermometer *69476* Cor.

Corrected temperature

Air *49* Surface *49* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

P. M.
5-56-0

5-59-0

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

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

86B
507.

No. *2641 Key* Date *Aug 11th 91*
Tanner Machine. — Reel. —

Turns *23* Cor. + *1* Depth *24*

Shot or lead *28 lbs*

Bottom *bk gl & br sh*

Bottom temperature *43.9*

No. of thermometer *69476* Cor. —

Corrected temperature

Air *53* Surface *48* Drift —

Trawl or dredge —

Put 10 handline over side at 6.19
 Gnat 6.24
 Chalk 3 Cool feet

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6.17.20</i>	<i>6.19.00</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		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

No. 3443 5^r Date Aug. 27th 1891.

Tanner Machine. - Reel.

Turns 92 Cor. + 5 Depth 97 fms.

Shot or lead 26 lbs.

Bottom gn. M. Pak.

Bottom temperature 46°

No. of thermometer 69476 Cor.

Corrected temperature 1 Knot

Air 65° Surface 57° Drift N. N. x W.

Trawl or dredge L. B.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2.01.45	04.00	0	2.09.00	47.00
02.30	2.02.40	100	13.00	43.45
		200	17.15	39.30
		250	19.00	2.37.00
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Put over surface tow-net at
2.23 for 10 minutes.
3 small Medusae; few small Crustacea.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500	corals & tubers			
600				
700	few Hydroids cups Corals.			
800	2 Pteronotids			
900	few sp. small fishes			
1000	few sp. Holothurians			

REMARKS:

Fishes
 2 *Microstomus pacificus*. 3 *Chimaera collei*
 1 pint of Shrimp & Prawns about 1/2 doz of
 3 Crabs - few shells - 1/2 doz of
 5 sp Branchiopods. 1 sp of Pectin
 3 urchins. few sp. Grapae
 5 sp Starfishes - few sp. Echinoderms

H.C.O.
101.
A.F.P.

No. 3444 Date Aug. 27th 1891.
Banner Machine. — Reel.

Turns 76 Cor. + 4 Depth 80 fms.

Shot or lead 26 lbs

Bottom gy. M. & Pab.

Bottom temperature 45

No. of thermometer 69476 Cor.

Corrected temperature

Air 66° Surface 56° Drift

Trawl or dredge L. B. 1 1/2 Sw x 10 mag.

P.M. SOUNDING WIRE.

DOWN.	UP.
3.48.30	51.00
49.15	3.49.25

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

P.M. DREDGE ROPE.

DOWN.	UP.
3.54.00	4-26-0
58.15	2-3-0
4-02-0	4-19-0
02-35	

Put over surface tow-net at 4.00
for 15 minutes. got nothing.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

a few young Shrimp
1 Limpet.

No.

3445 ST.

Date

Aug. 27/91.

Sanner.

Machine.

Reel.

Turns 95 Cor. + 5 Depth 100

Shot or lead 36 lbs.

Bottom Rky.

Bottom temperature 44.0

No. of thermometer 69476 Cor.

Corrected temperature

Air 66 Surface 65 Drift

Trawl or dredge SB 2m 24 1/2 S mag.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5-30-10	5-34-0	0	5-34-0	19-0
		100	39-30	14-0
		200	43-0	09-0
		300	47-0	6-25-0
		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 TEMPERATURES.

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

REMARKS:

Fishes

Several Liparis

Several sp. prawns, small crabs

Six sp. starfish (Hymenodiscus, Crassaster, etc)

1 peck urchins, several sp. shells, ~~see~~

few brachipods, cup corals, naked

mollusks, many pecten, 2 Crinoids,

few Holothurians, sponges, worms

No.

3446 Dr.

Date

August 27/91

Machine.

Reel.

Turns 95 Cor. + 5

Depth

100

Shot or lead 26 lbs.

Bottom

bn m

Bottom temperature

44.5

No. of thermometer

69476

Cor.

Corrected temperature

Air

68

Surface

53

Drift

1/2 S. 7.

Trawl or dredge

L.B.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7-26-45

7-30-0

0

7-29-0

10.00

100

34-0

17.00

200

34-0

03.30

300

41-0

8-0-0

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Low surface net 10 minutes

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

1 shell
a few shrimp
1 sea urchin
1 alligator fish

Contents
surface net
1/2 bu. Medusa

No. 2642 Hy. ^a Date Aug. 28th 1891.

Tanner Machine. — Reel.

Turns 74 Cor. + 4 Depth 78 fms.

Shot or lead 26 lbs.

Bottom P.

Bottom temperature 45.2

No. of thermometer 69476 Cor.

Corrected temperature

Air 60° Surface 52° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.25.00	7.27.00	0		
Put seven haid lines over port side for 10 minutes, but caught nothing.	Mr. Alexander left ship with two men in dory to set trawl lines at 7:30 A.M. Returned at 10:30 - having set 2 trawls.	100	Trawls and 2 cod trawls - Hooked for trawls in the afternoon, but failed to find shrimp. Current was evidently too strong, and the buoy ran under - Cost 70 Chestin anchors and 1 small grapnel - also 2 buoys and 4 trawls - Incident (see)	
		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 TEMPERATURES.

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

REMARKS:

No. *2643* Date *August 28/91*
Tanner Machine. Reel.

Turns *137* Cor. + *7* Depth *144*

Shot or lead *36 lbs.*

Bottom *fm m.*

Bottom temperature *44*

No. of thermometer *69476* Cor.

Corrected temperature

Air *60* Surface *52* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8-25-30</i>	<i>30-0</i>	0		
<i>26-45</i>		100		
<i>27-45</i>	<i>8-28-0</i>	137 200		
		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 TEMPERATURES.

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

REMARKS;

No. *2644* Date *August 28/91*
Sanner Machine. Reel.

Turns *131* Cor. + *6* Depth *137*

Shot or lead *36 lbs.*

Bottom *gy S & S*

Bottom temperature *44°*

No. of thermometer *69476* Cor.

Corrected temperature

Air *60°* Surface *53°* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9-15-0 *18-30*

0

16-0 *9-16-30*

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 TEMPERATURES.

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

REMARKS:

No. *2645 Hy* Date *August 28/91**Tanner* Machine. Reel.Turns *113* Cor. + *6* Depth *119*Shot or lead *36 lbs.*Bottom *gy. S.*

Bottom temperature

No. of thermometer *69-76* Cor.

Corrected temperature

Air *61°* Surface *57°* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*10-15-30**17-0*

0

*14-30**10-15-0*

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

No. *3447* Date *August 28/91*
Machine. *Reel.*

Turns *110* Cor. + *6* Depth *116*

Shot or lead *36 lbs*

Bottom *gy S.*

Bottom temperature *44°*

No. of thermometer *69476* Cor.

Corrected temperature

Air *61°* Surface *54°* Drift

Trawl or dredge *R.B.* *1 1/2 m W N W*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

UP.

<i>10-23-0</i>	<i>26-0</i>	0	<i>10-55-0</i>	<i>18-0</i>
<i>24-0</i>	<i>10-24-30</i>	100	<i>39-0</i>	<i>14-0</i>
		200	<i>45-0</i>	<i>10-0</i>
		<i>40</i>	<i>47-0</i>	<i>11-08-0</i>
		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 TEMPERATURES.

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

Three large red prawns

REMARKS:

Fishes
Microstomus pacificus - 15 specimens
 largest $7\frac{1}{2}$ lbs., average 3 lbs.
 2 *Atheresthes stomias*,
 1 *Glyptocephalus zachirus*
 1 *Gadus morhua*, (Cod) 1st one taken
 south of Alaska by the Albatross.
 1 dog fish, skate, 10 *Chimaera callosa*

No. 3448 Date August 28, 91

Tanner Machine. Reel.

Turns 93 Cor. + 5 Depth 98 fms

Shot or lead 26 lbs

Bottom gy. S.

Bottom temperature 44°

No. of thermometer 69476 Cor.

Corrected temperature

Air 59 Surface 55 Drift 1.0 W 1 mag 1'

Trawl or dredge L. B.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.10.00	13.00	0	3.13.00	48.00
11.00	3.11.05	98	17.00	43.45
		100	20.30	40.30
		200	23.45	3.31.45
		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 TEMPERATURES.

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

REMARKS:

Fishes:

2 Rat fish 1 skate 1 *Kryptocephalus*

1 *Pycnogonidae* (starfish)
few shrimps & prawns.

170. 3.
2

No. 3449 Dr. Date Aug. 28th 1891.

Tanner Machine. — Reel.

Turns 129 Cor. + 6 Depth 135 fms.

Shot or lead 26 lbs.

Bottom gy. S. S.

Bottom temperature did not register

No. of thermometer 69476 Cor. —

Corrected temperature — 1 knot

Air 60° — Surface 55° — Drift E. x S.

Trawl or dredge L. B.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.08.00	13.00	0	4.14.00	46.15
09.00	11.00	100	18.00	43.00
09.30	4.09.40	200	22.00	40.00
		300	25.30	4.36.00
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

Fishes

1 *Sebastes rubrivinctus*
 1 " *fancifinnis*?
 4 *Microstomus fasciatus*.

2
 2 gto prawns.
 1/2 pk. mussels.

501.

No. 3450 S. - Date Aug. 28th 1891.
 Tanner Machine. - Reel.

Turns 145 Cor. + 6 Depth 151 fms.

Shot or lead 26 lbs.

Bottom G.

Bottom temperature 44°

No. of thermometer 69476 Cor.

Corrected temperature

Air 54° Surface 53° Drift 7/10 knot.
 E. N. E. -

Trawl or dredge L. B. 1/2 E.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.09.00	17.30	0	5.18.00	56.00
13.15	15.30	100	22.00	52.30
14.00	5.14.10	200	24.30	49.30
		300	27.00	46.30
		350	30.00	5.44.30
		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 TEMPERATURES.

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

REMARKS:

1 *Microstomus pacificus*
 2 sps. Skates. 2 *Pseudotolithus*
 1 *Myctophum*. 10 *Liparis*.

1 qt. Prawns. 1 pt. Brachiopods.
 Shells - Hermit Crab -
 Ophiurans - Sea Urchins -

No. 3451 *Dr* Date Aug. 28th 1891.

Tanner Machine. — Reel.

Turns 101 Cor. + 5 Depth 106 fms.

Shot or lead 26 lbs.

Bottom *S. Pt.*

Bottom temperature 45°

No. of thermometer 69476 Cor.

Corrected temperature

Air 58° Surface 53° Drift 6/10 knot

Trawl or dredge *L. B.* E. S. E. 1/2 E.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6.26.00	28.30	0	6.29.00	7.02.00
27.00	6.27.10	100	33.00	59.00
		200	36.30	56.00
		300	43.00	6.53.00
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
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3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

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

REMARKS:

Fishes

6 *Liparis*

3 *Microstomus*

1 *Notolucania*,

1 bushel murex

19t prawns, 3 sp.

1 large star

few shells, crabs, sponge, 10000

1 squid.

No. 2645 Tby Date August 29/91
 Sanner Machine. Reel.

Turns 55 Cor. + 4 Depth 59

Shot or lead 26 lbs

Bottom g r s

Bottom temperature

No. of thermometer 69476 Cor.

Corrected temperature

Air 54 Surface 53 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6-0-0

6-02-0

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 TEMPERATURES.

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

REMARKS:

No.

2646 Hy

Date

August 29/91

Tanner

Machine.

Reel.

Turns

133

Cor. +

7

Depth

140

Shot or lead

36 lbs

Bottom

gravel

Bottom temperature

44.2

No. of thermometer

69476

Cor.

Corrected temperature

Air

54°

Surface

53°

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
6-39-0	6-43-0	0		
40-0		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 2 on. Morning of 29th on

1 cod & 1 halibut -

owing to rocky bottom -

lines chafed off - and

only about 1/5 of cod trawl

was recovered - 3 Black Cod -

max weight, 28 lbs. 51 in long -

Ar, " 22 lbs.

Nothing recovered of halibut trawl -

hoops

having trawl under

202.8

60.20

$$\begin{array}{r} 28.9 \\ 2/13 \\ \hline 65/22 \end{array}$$



$$\begin{array}{r} 615 \\ 133 \\ \hline 482 \end{array} \quad 7$$

$$\begin{array}{r} 615 \\ 133 \\ \hline 582 \end{array} \quad 525$$

Tanner Reel

17

$$\begin{array}{r} 6' 15'' \\ 22 \\ \hline 5' 7'' 3 \end{array}$$

615 turns. Correction 17

Turns	Correction
50	0
100	0
150	1
200	2
250	3
300	4
350	5
400	7
450	9
500	11
550	13
600	16
615	17

Figure same as table for
Regoe Machine