

N<sup>o</sup> 14.

Oct<sup>r</sup> 13<sup>th</sup> 1889.

Me<sup>h</sup> 24<sup>th</sup> 1890.

D<sup>r</sup> 3097 <sup>to</sup> 3168.

Hy<sup>d</sup>. 2147 <sup>to</sup> 2175.

Sigebw.

4609 Turns on reel.

4609  
175  
4434

Correction Table, No 2 (Rule) Correction 235

Cor.	Turns	Cor.	Turns	Cor.	Turns
0	50	31	1650	120	3250
0	100	33	1700	123	3300
0	150	35	1750	124	3350
1	200	37	1800	131	3400
1	250	39	1850	135	3450
1	300	41	1900	138	3500
2	350	43	1950	141	3550
2	400	45	2000	145	3600
3	450	47	2050	150	3650
3	500	50	2100	154	3700
4	550	53	2150	158	3750
5	600	55	2200	162	3800
5	650	57	2250	167	3850
6	700	60	2300	171	3900
7	750	63	2350	175	3950
8	800	66	2400	179	4000
9	850	68	2450	184	4050
10	900	71	2500	188	4100
11	950	74	2550	193	4150
12	1000	77	2600	197	4200
13	1050	80	2650	202	4250
14	1100	83	2700	206	4300
15	1150	86	2750	211	4350
16	1200	89	2800	216	4400
18	1250	92	2850	220	4450
19	1300	95	2900	225	4500
21	1350	99	2950	230	4550
22	1400	102	3000	235	4609
24	1450	106	3050	240	
25	1500	109	3100	245	
24	1550	113	3150	250	
29	1600	116	3200	253	
	4609 418	418 38	4609 418	235	4609 340
	4191	456	4609 418	197	4760
				318	

235.  
219/6

Tanner

27 503

377 Turns on Reel.

Turns. 16 to 38	+ 1
39 " 70	+ 2
71 " 105	+ 3
106 " 142	+ 4
143 " 190	+ 5
191 " 260	+ 6
261 " 384	+ 7

Abbreviations for bottom.

Ab <sup>n</sup>	Equivalent.	Ab <sup>rn</sup>	Equivalent.
C	clay	fine	fine
Co.	coral	hrd.	hard
G.	Gravel	lrgs	large
Glb	Globegirina	rk	rocky
w.	wad.	sft.	soft
Oz	Ooze	sm	small
P.	Pebbles	str	sticky
R.	Rocks.	bk	black
S	Sand	br.	brown
Sh.	Shells.	bn	blue
Sp	Specks	choc.	chocolate
St.	Stones	dk	dark
Grk.	broken	gn	green
gy	gray	rd.	red.
lt.	light	slat	slate
wh.	white	yl.	yellow.
crs.	coarse.		

4600  
14  
4546

Oct. 13 '89 3097  
Mar. 24 '90. 3168

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3147  
2175

W. H. H.

No. *Hy 2147* Date *October 13<sup>th</sup> 1889*

*Tanner* Machine. Reel.

Turns *48* Cor. + *2* Depth *50*

Shot or lead *26*.

Bottom *M.*

Bottom temperature *49.5*

No. of Thermometer *51451* Cor. *-0.3°*

Corrected temperature *49.2°*

Air *56* Surface *56* Drift.

Trawl or dredge or tangles

P.M. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.03.00</i>	<i>10.4.40</i>	0		
<i>10.03.30</i>	<i>10.03.40</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.

W. 1914

No. *Hy 2148* Date *October 13<sup>th</sup> 1889*  
*Tanner* Machine. Reel.

Turns *26* Cor. + *1* Depth *27*

Shot or lead *26.*

Bottom *m.*

Bottom temperature *53.5*

No. of Thermometer *51451* Cor. *-0.2°*

Corrected temperature *53.3°*

Air *56* Surface *56* Drift.

Trawl or dredge or tangles

P.M. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.40.00</i>	<i>10.41.30</i>	0		
<i>10.40.30</i>	<i>10.40.40</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.



W.M.N.

No. *Hy 2149* Date *October 13-89*

*Tanner* Machine. Reel.

Turn's *22* Cor. + *1* Depth *23*

Shot or lead *26*

Bottom *fm akgy s.*

Bottom temperature

No. of Thermometer *51451* Cor. -

Corrected temperature

Air *56* Surface *55* Drift.

Trawl or dredge or tangles

*P.M.* SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

*11.26.00* *11.27.30*

*11.26.30* *11.26.40*

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

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. *Hy. 2150* Date *Oct 14/89*

*Janner* Machine. Reel.

Turns *348* Cor. + *17* Depth *355*

Shot or lead *26 lbs.*

Bottom *m.*

Bottom temperature *42*

No. of Thermometer *51451* Cor. *-0.3°*

Corrected temperature *41.7°*

Air *56* Surface *55* Drift.

Trawl or dredge or tangles

*New*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

<i>12-09-0</i>	<i>30-30</i>	<i>0</i>
<i>10-30</i>	<i>18-0</i>	<i>100</i>
<i>11-30</i>	<i>16-0</i>	<i>200</i>
<i>12-30</i>	<i>12-15-0</i>	<i>300</i>

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. *Hy. 2151* Date *Oct 14/89*

*Sigsbee* Machine. Reel. *2*

Turns *60* Cor. + *5* Depth *65*

Shot or lead *35 lbs*

Bottom *fk s m*

Bottom temperature *49.2*

No. of Thermometer *51451* Cor. *-0.3°*

Corrected temperature *48.9°*

Air *56* Surface *55* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-2-15</i>	<i>1-5-30</i>	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURE.

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

REMARKS.

507  
*J.A.A.*

No. *Hy 2152* Date *Oct. 14/89*

*Sigsbee* Machine. Reel.

Turns *575* Cor. + *52* Depth *627*

Shot or lead *35 lbs*

Bottom *gnw*

Bottom temperature *38.8*

No. of Thermometer *51451* Cor. *-0.1°*

Corrected temperature *38.7°*

Air *56* Surface *55* Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-48-30</i>	<i>3-0</i>	0		
<i>50-0</i>	<i>2-0</i>	100		
<i>51</i>	<i>1-0</i>	200		
<i>52</i>	<i>2-0-0</i>	300		
<i>53</i>	<i>59-0</i>	400		
<i>54-30</i>	<i>55-0</i>	500		
<i>55-30</i>	<i>1-57-0</i>	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. *3097* Date *Mch. 5<sup>th</sup> 1880.*

*Hand Lead* Machine. — Reel.

Turns \_\_\_\_\_ Cor. + \_\_\_\_\_ Depth *12*

Shot or lead *20 lb.*

Bottom *bu. M.*

Bottom temperature \_\_\_\_\_

No. of Thermometer \_\_\_\_\_ Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air *56°* Surface *51°* Drift. *3/4 m, Drift*

Trawl or dredge or tangles *L. B.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.40.00</i>	<i>11.42.00</i>	0	<i>11.43.15</i>	<i>02.15</i>
		<i>06</i>	<i>46.35</i>	<i>12.00.00</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. *3098* Date *McK. 5<sup>th</sup> 1898.**Hand List* Machine. — Reel.Turns — Cor. + — Depth *13 fms.*Shot or lead *14 lb.*Bottom *bu. M.*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air *56°* Surface *51°* Drift.  $\frac{3}{4}$  m. Sault.Trawl or dredge or tangles *L. B.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.16.00</i>	<i>12.17.00</i>	0	<i>12.18.30</i>	<i>12-35-0</i>
		50		
		100	<i>21.05</i>	<i>36-30</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURE.

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

REMARKS.

H. 507

No. 3099 Dz Date Mch. 10 1890.  
 Tanner Machine. — Reel.

Turns 19 Cor. + 1 Depth 20 fms

Shot or lead 20 lbs.

Bottom fm. gy. S.

Bottom temperature 51°

No. of Thermometer 63899 Cor. - 0.2

Corrected temperature 50.8°

Air 50° Surface 51° Drift: 1/2 N. S. W. (Mag)

Trawl or dredge or tangles L. B.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.08.45	09.40	0	2.14.00	35.00
09.05	2.09.15	60	17.15	2.33.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

South Farnalton Light tower - bore  
 S. W. x N. 7/8 N. (Mag) distant 14 miles -

	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.

Shrimps. Flounders. Star fish.  
 Crustacea. Crabs. Anchovies.  
 Medusa. Smelt. Squid  
 Hydroid.

No. 3100 *LT* Date *Mch 10<sup>th</sup> 1890.**Tanner* Machine. — Reel.Turns *28* Cor. + *1* Depth *29 fms.*Shot or lead *20 lbs.*Bottom *crs. G.*Bottom temperature *50.6°*No. of Thermometer *63899* Cor. - *0.2*Corrected temperature *50.4°*Air *50°* Surface *51°* Drift. *7/10 N. S. W. 1/2 W.*Trawl or dredge or tangles *Large beam*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>P.M.</i> 3. 16. 45	17. 45	0	3. 22. 00	47. 15
17. 00	3. 17. 15	90	26. 30	3. 44. 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		

*South Farallon Lt. No. bore N. S. W. (Mag.)  
distant 9 miles.*

	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				

Young Shark  
 Star fish. 5 sps. Flounders. Shells.  
 Rock fish. Horn cod. Skates.  
 Shrimps. Dog fish. Medusa.  
 Parasitic Crustacea. Worms  
 Ronador - several. Purch. a  
few small ones.

REMARKS.



507  
J.P.

No. 3101 ON Date Mar 10<sup>th</sup> 90

Tanner Machine. — Reel.

Turns 32 Cor. + 1 Depth 33 fath

Shot or lead. 20 lbs

Bottom Yl S.

Bottom temperature 57°

No. of Thermometer 63899 Cor. - 0.2°

Corrected temperature 50.8°

Air 49° Surface 57 Drift. 1 1/10' S. + W.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4 29.15	4.29.55	0	4 29.30	4-56-46
29.35	4.29.40	100	4.35-	4-51-16
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

South Parallon I. S. bore N. S. W. 1/4 W.  
(Maps distant 5 1/10 miles.)

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

3/4 W.

SERIAL TEMPERATURE.

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

REMARKS.

Skates. Jelly fish Flounders  
Perch. 2 small Crabs  
1 Squid.

8813  
607

No. 3102 Date Mar. 10<sup>th</sup> 1890.

Tanner Machine. Reel.

Turns 26 Cor. + 1 Depth 27 fathoms

Shot or lead 20 lbs

Bottom C. & bk. sh.

Bottom temperature 52.0

No. of Thermometer 63899 Cor. -0.20

Corrected temperature 51.8°

Air 49° Surface 51° Drift. 1 mile S. 1/2 W.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5-40-30	5-41-40	0	5-43-50	6.19-
41-05	41-07	60	5-47-50	6.17.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

South Junction St. No. 1. 1/2 mile distant 1 1/2 miles.

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.

5' Anemone  
 Sea Anemone. 1 doz Cup Corals  
 1 Pecten, 1 Red Hydro-Spirallina  
 1 Crab. 1 Fish (small)

No. 3103 *D<sup>r</sup>* Date Mar. 10<sup>th</sup> 1890.

Tanner Machine. Reel.

Turns 65 Cor. + 2 Depth 67

Shot or lead 20 lbs

Bottom fine dk S

Bottom temperature 58.1°

No. of Thermometer 63.899 Cor. -0.2°

Corrected temperature 57.9°

Air 49° Surface 49° Drift. 2 m west

Trawl or dredge or tangles Large Beam

*PM*

SOUNDING WIRE.

DOWN. UP.

TURNS.

DREDGE ROPE.

DOWN. UP.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6-46.30	6.47.45	0	6.49.45	34.59
6.47.20	6.47.20	100	57.30	29.27
		200	7 00.30	7.24.33
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

South Swallow St. bore No. 1 x 8. (May)  
Distant 4 miles.

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.

Flounder about 350. Midskipmen  
 1 Bel. King, Bel. prnts., 2 Crabs

No. 31  
5071

No. 3104 Date *Mar. 11<sup>th</sup> 1890.*

*Sigsbee* Machine. #2 Reel.

Turns 340 Cor. + 51 Depth 391 fms.

Shot or lead 38 lb.

Bottom *C.*

Bottom temperature 41°

No. of Thermometer 63899 Cor. -0.2°

Corrected temperature 40.8°

Air 47° Surface 49° Drift.

Trawl or dredge or tangles *Large beam*

A.M. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6.04.10	19.30	0	6.38.10	7.59.45
06.20	17.15	100	42.30	56.40
08.05	15.05	200	46.30	53.20
09.30	13.05	300	50.25	50.10
10.05	6.12.15	400	55.05	47.00
		500	59.10	43.15
		600	7.03.15	39.45
		700	07.25	35.30
		800	11.00	7.30.15
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*South Farallon St. bore N. 1/4 W. (Mag)  
distant 16 miles*

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

1 1/2 S.E. x 6. 1/2 E.

## SERIAL TEMPERATURE.

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

Crimson Rock Fish. REMARKS. 2 sps. Macrurus.  
 Shrimps. Shells. Sea anemone.  
 Deepsea Crabs. Spider Crabs.  
 1 Brachyopod. Eels.  
 3 sps. Star fish!



507

No. 3105 Dr Date Mar 11<sup>th</sup> 90.

Tanner Machine. — Reel.

Turns 211 Cor. + 6 Depth 217 fms.

Shot or lead 20 lbs

Bottom fine gy. S.

Bottom temperature 44.4°

No. of Thermometer 63899 Cor. -0.2°

Corrected temperature 44.2°

Air 62° Surface 57° Drift. SE. E 1/2 W

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8 55-41	9.01.55	0	9.02-15	04.26
<del>56-15</del>	59.15	100	9.07.12	10.01 30
56.50	58.20	200	12.20	58 58
57.15	57.30	<del>230</del> 300	16.05	49.05
		400	19.45	45 40
		<del>460</del> 500	21.28	9.42.10
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

South Farallon Lighthouse, box N. 1/2 W. 1/2 W. (May)  
distant 2 1/2 miles.

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 Black Cod, sea urchins, 7 Eel pouts  
 Flounder, Red Rock Fish, several  
 small hermit crabs - in shells, hermit  
 crabs, 2 skatts.

813  
607

No. 3106 *Dr* Date Mar. 11<sup>th</sup> 1890

Tanner Machine. Reel.

Turns 75 Cor. + 2 Depth 77 fms

Shot or lead 20 lbs

Bottom fine gy. s.

Bottom temperature not known

No. of Thermometer 63899 Cor. -0.2°

Corrected temperature —

Air 52° Surface 51° Drift. SE. S 17m.

Trawl or dredge or tangles Large Beam

*Am*

SOUNDING WIRE.

DOWN. UP.

TURNS.

*Am* DREDGE ROPE.

DOWN. UP.

10.50.10	10.52.15	0	10.52.15	26.50
10.50.45	10.50.26	25	10.58.05	23.40
		100	11.02.30	11.20.15
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Parallon Lt. Ho., bar N. W. 7/8 N. (May)  
 distant 27 miles.

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.

Skali Eggs. Red Rock Cod.  
Basket Sails. Flounders. 2 kinds of  
Sail fish. Holothurians. Pennatula  
Sea Anemone. 3 Sculpin.

613  
N.C.P.

No. 3107 Date Mar. 11 1890

Tanner Machine. Reel.

Turns 49 Cor. + 2 Depth 51 fms

Shot or lead 20 lbs

Bottom fine gy S.

Bottom temperature not known

No. of Thermometer 63899 Cor. -0.2°

Corrected temperature —

Air 52° Surface 52° Drift. 844-1.0

Trawl or dredge or tangles Large Beam

(P.M.)

SOUNDING WIRE.

DOWN. UP.

12.07.01 09.30  
07.30 12.07.31

TURNS.

0  
100  
~~150~~  
~~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.

12.12.15 45.00  
15.35 41.20  
17.05 12.38.50

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 Sea pen - A few Flounders.

No. 31  
507

No. 3108 *St* Date *Mch. 11<sup>th</sup> 1890.*

Tanner Machine. — Reel.

Turns *43* Cor. + *2* Depth *43*

Shot or lead *20 lbs.*

Bottom *R. & bk. sh.*

Bottom temperature *51°*

No. of Thermometer *63 899* Cor. *-0.2°*

Corrected temperature *50.8°*

Air *53°* Surface *53°* Drift *E. S. E. 1/2'*

Trawl or dredge or tangles *large beam*

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.24.30</i>	<i>25.40</i>	0	<i>1.26.10</i>	<i>46.30</i>
<i>24.45</i>	<i>1.24.55</i>	100	<i>29.25</i>	<i>36.10</i>
		150	<i>31.05</i>	<i>1.34.15</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Pigeon Point Lt. No. 1, bore E. S. E. 1/2' (Mag.)  
Shot out 13 miles.*

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.

Net came to surface badly torn.  
 Saw stone sea lilies.  
 Ophiurans - 2 sps. Starfish -



H.O.S.  
507

No. 3109 *DI* Date *Mch. 11<sup>th</sup> 1890.*

*Tanner* Machine. - Reel.

Turns *38* Cor. + *2* Depth *40 fms.*

Shot or lead *20 lbs.*

Bottom *Rky.*

Bottom temperature *51°*

No. of Thermometer *63899* Cor. *-0.2°*

Corrected temperature *50.8°*

Air *53°* Surface *53°* Drift. *N. 71. W. 1 1/10°*

~~Trawl or dredge or tangles~~

*P.M.*

SOUNDING WIRE.

DOWN. UP.

*1.48.00 1.49.00*

TURNS.

*P.M.*

DREDGE ROPE.

DOWN. UP.

*1.50.30 2.00.15*

*60 53.10 1.58.45*

*100*

*200*

*300*

*400*

*500*

*600*

*700*

*800*

*900*

*1000*

*1100*

*1200*

*1300*

*1400*

*1500*

*1600*

*1700*

*1800*

*1900*

*2000*

*2100*

*2200*

*2300*

*2400*

*12 Hand lines over starboard side -  
 Put over at 2.0 P.M. Hauled in at 2.30  
 Catch - 3 Orange Rock Fish. 2 Red Rock Fish.  
 Drift  $1/4$  S.  $5/8$  E.  $1/8$  S.  $1/8$  E.  $1/8$  S.  $1/8$  E.  $1/8$  S.  
 Pigeon Point Light House bore S.  $1/2$  E.  $1/2$  S.  $1/2$  E.  $1/2$  S.  
 distant  $1 1/2$  miles.*

	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.

Several ~~large~~ sea lilies. (Antedon.)  
 2 sps. Star fish.  
 Ophiurans.

507  
No. 3110

No. 3110 *51* Date *Nov. 11* 1890.

Tanner Machine. Reel.

Turns 37 Cor. + 2 Depth 39 fms.

Shot or lead 20 lbs.

Bottom P.

Bottom temperature 51.2°

No. of Thermometer 63899 Cor. - 0.2°

Corrected temperature 51°

Air 53° Surface 53° Drift. *NE 1/4 N 7*

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.59.05	3.08.05	0	3.02.45	24.15
59.30	2.59.38	60	07.15	3.20.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

12 Hand lines out over port side -  
Over at 3.10 P.M. on at 3.30.  
Catch - Nux - Drift 1/4 SE x S mag

Pigeon Point Lt. Ho. bore S.E. x E. (Mag)  
distant 10 1/2 miles.

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.

Several sps. Star fish.

1153  
607

No. 2153 Hgd. Date Mar 11<sup>th</sup> 1891  
Tanner Machine. Reel.

Turns 20 Cor. + 1 Depth 21 fms.

Shot or lead 20 lbs.

Bottom fine. M. S.

Bottom temperature 53°

No. of Thermometer 63899 Cor. - 0.2°

Corrected temperature 52.8°

Air 55° Surface 53° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3. 52. 45	53. 20	0		
52. 55	3. 53. 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		

I haul lines over port side at 3.55  
 In at - 4.04.  
 Catch: Nil

Pigeon Point Lighthouse, bore S.E. 1/4 S. (Mag.)  
 distant 8 2/3 miles.

	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.**

J.E.B. 607

No. 2154 Date Mar 11, 1890

Hand lead Machine. Reel.

Turns Cor. + — Depth 10 fms

Shot or lead 14 lbs

Bottom brk. sh. R.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 60° Surface 53° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.30.00	4.31.00	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		

10 fms lead over port side at 4.30

Start 4.42  
Cable Nil

Pigeon Point Lt. Ho. bore S.E. 7/8 S. (Mag)  
distant 5 2/10 miles.

	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. 3111 Dr Date *Mar. 11<sup>th</sup> 1890.*  
*Janner* Machine. - Reel.

Turns 19 Cor. + 1 Depth 20

Shot or lead 20 lbs.

Bottom *gy. S.*

Bottom temperature 53°

No. of Thermometer 63899 Cor. -0.2'

Corrected temperature 52.8°

Air 60° Surface 53° Drift.  $\frac{1}{4}$  m S 12 $\frac{1}{2}$  E

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.11.50	12.45	0	5.27.00	38.40
12.10	5.12.20	100	28.00	5.36.31
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*11* Haul lines over starboard side at  
 5.15 - In at 5.25  
 Catch - Nix.

*Pigeon Point Lt. No. bore S.E.  $\frac{7}{8}$  E. (Mag.)  
 distant 3  $\frac{1}{10}$  miles.*

	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.

1757

No. 3112 *D* Date *Mch 12* #1890

Tanner Machine. — Reel.

Turns 289 Cor. + 7. Depth 296 fms.

Shot or lead 26 lb.

Bottom *fine gy. S.*

Bottom temperature 42°

No. of Thermometer 63899 Cor. -0.2°

Corrected temperature 41.8°

Air 51° Surface 52° Drift. 2' S E

Trawl or dredge or tangles *Large beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.46.15	54.45	0	6.00.00	07.15
47.20	53.15	100	06.15	04.20
48.15	51.10	200	10.15	7.01.05
49.10	5.49.25	296 300	14.12	57.55
		400	18.40	54.25
		500	22.00	50.55
		600	26.05	6.46.50
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pigeon Point Light bore S. W. x W. 7/8 W.  
 (Mag) distant 18 9/10 miles.

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.

Deep sea sole  $\frac{1}{2}$  doz. large  
 $\frac{1}{2}$  doz. Hag fish. 2 Bl. pockets.  
 Alcyonarians - few - Bushell Star fish  $\frac{4}{5}$   
 Hermit Crabs - 1 shell 3 Red Sebastes  
 6 spe. Deep sea fishes. Few Spider Crabs -  
 Holothurians, Alcyonarians.  
 Shrimps -

607  
E13

No. 3113 <sup>Dr</sup> Date Mar. 12. 90

Tanner Machine. Reel.

Turns 68 Cor. + 2 Depth 70 fms

Shot or lead 26 lbs

Bottom fine gy S

Bottom temperature 49°

No. of Thermometer 63899 Cor. -0.2°

Corrected temperature 48.8°

Air 54° Surface 52° Drift. 1' ENE

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7 44.20	50.30	0	7.50.45	27.45
48 10	7.48.13	100	.56.10	23 05
		200	.59.10	19 01
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pigeon Point Lt. Ho. bore S. W. x W. (Mag.)  
distant 13 miles.

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.

About 40 flounders, 2 Crabs,  
 Holothurians, Sculpins, 2 of Rockfish,  
 2 Mollusks, Myxozoa, 7

507  
No. 3114 *DF* Date Mar. 12 1890

Tanner Machine. ← Reel.

Turns 60 Cor. + 2 Depth 62 fms

Shot or lead 26 lbs

Bottom M.

Bottom temperature

No. of Thermometer 63899 Cor. —

Corrected temperature

Air 56° Surface 52° Drift.  $E\frac{1}{2}N. 1.3'$

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.06.30	09.15	0	9.12.40	35.07
07.00	9.07.10	100	16.40	33.20
		<del>150</del> 200	18.20	9.31.43
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pigeon Point Lt. Ho. bore N. E.  $5\frac{1}{8}$  N. (Mag.)  
distant  $8\frac{1}{10}$  miles.

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.

Lost Thermometer 63899. 1-26 lbs Lead  
 Numerous Ophiurans, Large Star fish;  
 1 Large Naked Mollusk, Two Mid. Shipmen,  
 1 doz. Small Rock fish, Citharichthys,  
 2 sp. Deep sea sole, Holothurians,



503  
*JEB*

No. 3115 <sup>52</sup> Date Mar 12<sup>th</sup> 1890

Tanner Machine. Reel.

Turns 42 Cor. + 1 Depth 43 fms

Shot or lead 26 lbs

Bottom fine bk. S.

Bottom temperature —

No. of Thermometer 61751 Cor. —

Corrected temperature —

Air 53 Surface 52 Drift. E 1/4 S 1.3'

Trawl or dredge or tangles Range Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.15.32	10.17.01	0	10.17.15	41.10
16 -	10.16.02	100	10.19.-	39.-
		120	19.45	10.38.15
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pigeon Point L.H. bearing N. x W. 1/8 W. (Mag.)  
 distant 6 miles.

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.

5 *Ganiolipis*, 8 octopuses, bag fish,  
 Numerous large star fishes (5 species),  
 1 doz Small Perch, 100 small flounders,  
 few shrimps, 6 skates,  
 skate eggs, mollusks, 2 crabs,  
 2 doz midsipmen, small shells,

No. 3116 *DI* - Date *Mar 12<sup>th</sup> '90**Hand* Machine, *lead* Reel.Turns — Cor. + — Depth *16 fms*Shot or lead *12 lbs*Bottom *Rky*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air *53* Surface *54* Drift. *NE x E. 3/10*Trawl or dredge or tangles *slips*

## SOUNDING WIRE.

DOWN.

UP.

*11.35.00**11.36.00*

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*0**11.37.12**11.42.00**19*  
*400**38.05* *11.41.03*

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*12 fms haul line haul bag at 11.17.**Sn at 11.34**catch 1 Red Rock Cod.**Point Stio News born N. W. x W. 1/2 W. (Mag)  
distant 1 1/10 miles -*

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.

Brachiopod shells Gorgonian coral.  
 1 ~~2~~ Holothurian shells, Sponges  
 (no species)

No. 2155 Hyd. Date *Mar 12 - 90*

*Hand* Machine/Reel

Turns — Cor. + — Depth *17 fms*

Shot or lead *12 lbs*

Bottom *Rky. Sh.*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air *55°* Surface *54°* Drift. *NE x E. 2'*

Trawl or dredge or tangles

A.M. - SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.45.00</i>	<i>11.46.00</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		

*Hand times over plate - board side 11.45 -  
Start 11.50  
Calcutt. Nil*

*Pt. São Paulo bore S. W. x W. 1/4 W. (Mag.)  
distant 1 9/10 miles.*

	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  
A. B.

No. 3117 J± Date *Mch. 12<sup>th</sup> 1890.*

Tanner Machine. Reel.

Turns 41 Cor. + 2 Depth 43 fms.

Shot or lead 25 lb.

Bottom *bk. s. 1 M.*

Bottom temperature 51°

No. of Thermometer 61751 Cor. - 0.3°

Corrected temperature 50.7°

Air 53° Surface 52° Drift. 1' ~~SE~~ 1/2 E.

Trawl or dredge or tangles *Large beam*

SOUNDING WIRE.

DOWN.

UP.

TURN.

*CM* DREDGE ROPE.

DOWN.

UP.

*PM*  
12.25.32

27.05

0

12.28.00

54.00

25.55

17.26.00

100

33.45

51.20

120

34.15

1.50.10

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Pigeon Point Lt. Ho. bore N. W. 1/4 N. (Mag.)  
distant 10 1/2 miles.*

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURE.

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

## REMARKS.

2 Flounders - 2 Mollusks -  
1 Squid -



No. 3118 <sup>52</sup> Date March 12<sup>th</sup> 1890.

Tanner Machine. - Reel.

Turns 52 Cor. + 2 Depth 54 fms.

Shot or lead 25 lbs.

Bottom Rky. & Co.

Bottom temperature 50.6°

No. of Thermometer 61751 Cor. 10.3°

Corrected temperature 50.9°

Air 56° Surface 55° Drift. 3/4' N. 1/2 E.

Trawl or dredge or tangles ships.

(P.M.)

12 fms. line on starboard side at 1.30 P.M.  
In at 1.55 -  
Catch - 1 Cuttle Cod -

SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.15.45	17.10	0	1.22.50	1.34.05
16.15	1.16.20	80	26.20	1.29.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

6 Yellow tail rock fish.  
8 Red Rock Fish.

Santa Cruz Pt. N. S. 6. N. E. 3/4 E. (May)  
distant 15 miles.

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, Sledge lost.

No. 507

No. 3119 *52* Date *March 12<sup>th</sup> 1890*

Ganner Machine. — Reel.

Turns *52* Cor. + *2* Depth *54 fms*

Shot or lead *25 lbs.*

Bottom *Rhy. & Co.*

Bottom temperature *50.6°*

No. of Thermometer *61751* Cor. + *0.3°*

Corrected temperature *50.9°*

Air *56°* Surface *55°* Drift. *—*

Trawl or dredge or tangles

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1. 50. 00</i>	<i>53. 10</i>	<i>0</i>	<i>1. 54. 00</i>	<i>03 15</i>
<i>51. 20</i>	<i>1. 51. 35</i>	<i>85</i>	<i>57. 40</i>	<i>2. 00. 00</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>		

*Santa Cruz St. Ho. bore E. N. E. 3/8 E. (Mag.)  
 distant 13 miles.*

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.

Crinoids. Star fish. Ophiurans -

H.O. 31  
607

No. 2156 Hyd. Date *March 12<sup>th</sup> 1890.*

*Tanner* Machine. — Reel.

Turns 118 Cor. + 4 Depth 122 fms.

Shot or lead 25 lbs.

Bottom *fk. s. & M.*

Bottom temperature 47.8°

No. of Thermometer 61751 Cor. —

Corrected temperature 47.8°

Air 56° Surface 55° Drift.

Trawl or dredge or tangles

*P.M.*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.17.25	20.45	0		
18.25	19.10	100		
18.40	2.18.45	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.

*N.S.*  
507

No. 3120 *D<sup>2</sup>* Date *March 12<sup>th</sup> 1890*

Tanner Machine. — Reel.

Turns 52 Cor. + 2 Depth 54 fms.

Shot or lead 75 lbs.

Bottom *gn. M. & S. & Pks.*

Bottom temperature 49.7°

No. of Thermometer 61751 Cor. —

Corrected temperature 49.7°

Air 56° Surface 54° Drift. *N. N. W. 1/2 N.*

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.41.00	42.35	0	2.43.30	57.15
41.30	2.41.40	100	48.00	2.54.45
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Santa Cruz Is., base S. N. E. (Mag.) distant 11 miles.*

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

1/2 mile -

SERIAL TEMPERATURE.

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

REMARKS.

2 Star fishes. 1 Ascidian -  
 1 Sea Urchin. 1 Crinoid



607  
# 3.

No. 3121 *DI* Date *Mich. 12<sup>th</sup> 1894.*

*Tanner* Machine. — Reel.

Turns 46 Cor. + 2 Depth 48 fms.

Shot or lead 25 lb.

Bottom *gn. M. S.*

Bottom temperature 49.8°

No. of Thermometer 61751 Cor. —

Corrected temperature 49.8°

Air 55° Surface 53° Drift *N. N. W. 1/2 W.*

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.14.30	16.10	0	3.16.30	78.00
15.05	3.15.15	10	20.00	3.26.45
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Santa Cruz Lt. Ho. bore S. 71. E. 7/8 E. (Mag)  
distant 11 miles.*

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

*1/4 mile*

## SERIAL TEMPERATURE.

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

## REMARKS.

*4 very small star fish.*

507  
 T.C. J. J.E.B.

No. 3122 Jr Date Mch. 12<sup>th</sup> 1890.

Tanner Machine. - Reel.

Turns 36 Cor. + 2 Depth 38 fms.

Shot or lead 25 lbs.

Bottom gy. s. + M.

Bottom temperature 52°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 52.3°

Air 55° Surface 52° Drift. 1/4 N. x W.

Trawl or dredge or tangles

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.40.35	41.30	0	3.42.50	54.00
40.45	3.40.55	60 -100	45.30	3.57.00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Santa Cruz Sticks. Core E. 1/4 N. (Mag)  
 distant 10 6/10 miles.

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

SERIAL TEMPERATURE.

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

REMARKS.

2 sps. Star fish.

507

No. 3123 <sup>D<sup>r</sup></sup> Date Mar. 12, 90

Tanner Machine. Reel.

Turns 31 Cor. + 2 Depth 32 fms

Shot or lead 25 lbs

Bottom fine gy S. + M.

Bottom temperature 52.5°

No. of Thermometer 6175-1 Cor. + 0.3°

Corrected temperature 52.8°

Air 56° Surface 54° Drift. ~~~~~

~~Trawl or dredge or tangles~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.36.15	39.45	0	4.44.10	57.45
37.02	4.37.04	60	48.55	4.55-
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Santa Cruz Lt. Ho. S. 71. E. 1/2 E. (Mag.)  
 distant 6 8/10 miles.

	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.

*Nothing.*

175.3.  
507

No. 312451 Date Nov 13<sup>th</sup> 1890-  
Tanner Machine. - Reel.

Turns 20 Cor. + 1 Depth 21 fms.

Shot or lead 25 lbs.

Bottom Rky.

Bottom temperature 52°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 52.3°

Air 45° Surface 51° Drift. ~~~

Trawl or dredge or tangles large beam.

R.M.

SOUNDING WIRE.

DOWN.	UP.
6. 40 .15	41. 05
40. 30	6. 40 38

TURNS.

- 0
- 60
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400

R.M.

DREDGE ROPE.

DOWN.	UP.
6. 42. 00	48. 30
44. 30	6. 45. 20

Santa Cruz Pt., Ho., bearing N. N. E. 3/4 E. 1/4 mag.  
 distant 2 8/10 miles.

	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.

Gorgonian Coral. Cup Coral - Bryozoa.  
 Sponges plentiful. Ophiurans.  
 Abundance of Salpae - 1 small  
 Spider Crab. 1 shrimp -  
 few small sponges - found in  
 somewhat turn -



507

No. 3125 Date Mch. 13<sup>th</sup> 1890.

Tanner Machine. — Reel.

Turns 63 Cor. + 2 Depth 65 fms.

Shot or lead 25 lbs.

Bottom fine gy. s. & sh.

Bottom temperature 48.4°

No. of Thermometer 61751 Cor. —

Corrected temperature 48.4°

Air 49° Surface 52° Drift. S. 6. E. 8/10'

Trawl or dredge or tangles Large Beam Mud Bag

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.36.55	38.50	0	7.41.30	19.45
37.35	7.37.45	100	48.20	16.36
		185	53.30	8.13.35
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Santa Cruz St. Ho. bore N.E. x E. 5/8 E. (Mag.)  
 distant 9 miles.

	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				

1000 ft fish      REMARKS. 2 *Midshipmen*  
 50 specimens (5 species) Small Rock Cod  
 10 *Zanclus*, 3 bag fish, 3 bucketfuls of  
*Polychaetes*, 4 large crabs, 8 scales, 12  
 deep sea flounders (2 species) 1 *Whiting*  
 2 specimens of *Hippoglossoides*. 4 sea urchins

No. 3126 *Dr* Date *Mar 13<sup>th</sup>* 1890*Sigsbee* Machine. 2 Reel.

Turns 118 Cor. + 38 Depth 456 fms

Shot or lead 35-lb.

Bottom *gn M.*

Bottom temperature 52 1/2°

No. of Thermometer 6175-1 Cor. +0.3°

Corrected temperature 52.8°

Air 54 Surface 53 Drift. *S. 1/2 E. 1/2*Trawl or dredge or tangles *Large Beam*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
8.46.06	58.10	0	9.00.30	27.05
47.05	57.56	100	04.15	21.40
47.58	57.30	200	08.15	19.05
48.54	56.55	300	10.47	16.12
49.46	56.13	400	14.55	13.00
50.02	55.15	500	20.50	10.05
		600	24.30	06.58
		700	27.15	03.45
		800	29.08	10.00.05
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Santa Cruz I. Is. bore N. E. x N. (Mag).*  
*distant 11 7/10 miles.*

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 bbl. deep sea urchins (2-species)  
 1/2 Peck shells. 50 *Dryptoccephalus* *Cyricog-*  
*Cassus* averaging 2 lbs each. 1/2 doz species  
 small deep sea fish. *Ophiurians*. 1/2 doz *Alcy-*  
*onarians*  
~~crabs~~ Shrimps two species. 1/2 doz *Hydroids*  
 2 Blk Crd. 3 species star fish

707  
 3127

No. 3127 *Dr* Date *March 13<sup>th</sup> 1890.*

*Sigsbee* Machine. *2* Reel.

Turns *382* Cor. + *36* Depth *418 fms.*

Shot or lead *35 lbs*

Bottom *gn. M + S.*

Bottom temperature *40.5<sup>10</sup>*

No. of Thermometer *6175-1* Cor. *-*

Corrected temperature *40.5<sup>0</sup>*

Air *56* Surface *53* Drift. *S.E. x S. 1/2 mile*

Trawl or dredge or tangles *Large Beam & Mud*

*Am*

SOUNDING WIRE.

DOWN. UP.

<i>11.00.25</i>	<i>10.30</i>
<i>01.15</i>	<i>09.50</i>
<i>02.05</i>	<i>09.10</i>
<i>03.02</i>	<i>08.25</i>
<i>03.58</i>	<i>11.07.45</i>

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

*Am*

DREDGE ROPE.

DOWN. UP.

<i>11.15.05</i>	<i>38.20</i>
<i>20.25</i>	<i>36.10</i>
<i>24.05</i>	<i>33.00</i>
<i>29.30</i>	<i>31.10</i>
<i>31.20</i>	<i>28.30</i>
<i>34.25</i>	<i>25.10</i>
<i>36.15</i>	<i>21.50</i>
<i>41.10</i>	<i>18.30</i>
<i>44.30</i>	<i>17.15.00</i>

*Pt. Cruise At the bore S. S. E. 1/2 E.  
 (Mag.) distant 13 1/10 miles.*

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

bag.

SERIAL TEMPERATURE.

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

REMARKS.

5 sps. Small deep sea fishes.  
1 doz. Deep sea hake. 7 1/2 lbs. each.  
1 large Spotted sole (new sp.) Chenliodes.  
1 Sebastes - 2 sps. Red shrimp.

J.P.B.  
 507  
 N.P.

No. 3128 *Dr* Date *Mch 13<sup>th</sup> 1890.*

*Sigsbee* Machine. *2* Reel.

Turns *574* Cor. + *53* Depth *627 fms*

Shot or lead *35 lb.*

Bottom *fw M.*

Bottom temperature *38.9°*

No. of Thermometer *61751* Cor. —

Corrected temperature *38.9°*

Air *56°* Surface *53°* Drift. *E. S. E. 1/8 E.*

Trawl or dredge or tangles *large beam, & mud bag*

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.44.30</i>	<i>55.30</i>	0	<i>1.00.00</i>	<i>51.45</i>
<i>42.15</i>	<i>54.50</i>	100	<i>04.50</i>	<i>48.35</i>
<i>43.05</i>	<i>54.15</i>	200	<i>08.30</i>	<i>45.20</i>
<i>44.00</i>	<i>53.20</i>	300	<i>12.00</i>	<i>42.15</i>
<i>44.55</i>	<i>52.10</i>	400	<i>14.10</i>	<i>38.20</i>
<i>45.05</i>	<i>51.05</i>	500	<i>16.40</i>	<i>34.40</i>
<i>46.45</i>	<i>12.50.10</i>	600	<i>19.30</i>	<i>31.00</i>
		700	<i>22.00</i>	<i>27.15</i>
		800	<i>24.00</i>	<i>23.45</i>
		900	<i>26.00</i>	<i>20.35</i>
		1000	<i>28.00</i>	<i>17.15</i>
		1100	<i>30.20</i>	<i>14.05</i>
		1200	<i>34.10</i>	<i>2.11.00</i>
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Pt. Cruise Lt. No. bore distant 10 miles.*  
*C. 1/2 S. (Mag)*

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

2 6/10 miles

## SERIAL TEMPERATURE.

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

REMARKS.



A.C. 617  
J.C.P.

No. 3129 *DI* Date *Mch. 13<sup>th</sup> 1890.*

*Sigsbee* Machine. #2 Reel.

Turns 187 Cor. + 17 Depth 204 fms.

Shot or lead 35 lbs

Bottom S.M.

Bottom temperature 43.7°

No. of Thermometer 61751 Cor. —

Corrected temperature 43.7°

Air 66° Surface 57° Drift. —

Trawl or dredge or tangles *large beam & mud bag.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3. 26.50	31.00	0	3.33.10	23:00
27.55	30.10	100	48.15	19.45
28.45	3. 29.15	200	49.20	16.50
		300	47.00	14.50
		400	51.15	10.40
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Pt. Pine Lt. No. bore 6 3/4 d. (Mag.)  
distant 4 1/10 miles.*

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.

*Hippoglossoides*  
 12 *Ammocetes* flounders 12 deep sea flounder spec  
 1 *Parapophrys* 12 Rock Cod Small 2 spec 4 very  
 small Rock Cod. 7 *Ganiolysis*. 12 Eel parts found  
 24 Alligator fish 7 octopus 6 Hog fish  
 4 skates (2 pieces) 6 Basket fish 50 Crinoids  
 6 shark Eggs

No. 3130 *SI* Date *Mch. 14<sup>th</sup> 1890.*

Hand lead - Machine. - Reel.

Turns — Cor. + — Depth *9 fms.*

Shot or lead *12 lbs.*

Bottom *lt. S. + Rks.*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air *67°* Surface *58°* Drift. —

Trawl or dredge or tangles *Small beam.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.18.00</i>	<i>12.19.00</i>	0	<i>12.20.15</i>	<i>13.30</i>
		50		
		100	<i>21.30</i>	<i>12.41.15</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Almija Point bore N. W. x N. 3/4 W. (Mag.) distant 1 mile.*

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.  
 Crabs - 3 large  
 1 Skate, 1 Flounder. Two young Flounder.  
 2 Holothurians. 1 large Alcid larva.  
 2 Red star fish. 1 Mollusk.

1707.  
507

No. 3131 *D* Date *Mch. 14<sup>th</sup> 1890.*  
*Tanner* Machine. — Reel.

Turns 46 Cor. + 7 Depth 48 fms.

Shot or lead 25 lb.

Bottom *fr. M. + R.*

Bottom temperature 50.5°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 50.8°

Air 67° Surface 58° Drift. *N. 6. E. 1 1/2 mile-*

Trawl or dredge or tangles *Small beam -*

<i>P.M.</i> SOUNDING WIRE.		TURNS.	<i>P.M.</i> DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.32.00	33.15	0	1.34.30	59.00
32.15	1.32.35	100	39.05	54.15
		150	41.25	1.52.00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Point Cruise St. Is. bore S. 5/8 W. (Mag.)  
distant 3 1/2 miles.*

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.

Dredge net badly torn -  
Nothing taken -

No. 507, J.

No. 3132 *DZ* Date *Nov. 14<sup>th</sup> 1890.*

*Tanner* Machine. — Reel.

Turns *32* Cor. + *1* Depth *33 fms.*

Shot or lead *25 lbs.*

Bottom *br. M.*

Bottom temperature *51.8°*

No. of Thermometer *61751* Cor. *+0.3°*

Corrected temperature *52.1°*

Air *67°* Surface *55°* Drift. *N. W. 4/10 mile*

Trawl or dredge or tangles *Small beam.*

<i>P.M.</i> SOUNDING WIRE.		TURNS.	<i>P.M.</i> DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2. 27.50</i>	<i>29.00</i>	<i>0</i>	<i>2. 30.00</i>	<i>52.30</i>
<i>26.10</i>	<i>2. 28.20</i>	<i>100</i>	<i>34.00</i>	<i>2. 49.00</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>		

*Point Curie St. No. bore N. x E. 1/2 E. (May)  
distant 7 3/10 miles.*

	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.

3 Hag Eels. 1 Skate.  
 2 Midskipmen. Small Rock  
 fish. 2 Octopus. 2 Bonca dor  
 Few Shrimps!



N. O. J.  
567

No. 3133 *Dr* Date *March 14<sup>th</sup> 1890*

Tanner Machine. — Reel.

Turns 36 Cor. + 1 Depth 37 fms. to

Shot or lead 25 lbs.

Bottom *fr. M.*

Bottom temperature 52°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 52.3°

Air 59° Surface 55° Drift. *N. 78° 31' 4 E.*

Trawl or dredge or tangles *small beam. 1/2 mile*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.22.15	24.10	0	3.24.30	42.50
23.00	3.23.05	100	29.00	3.38.10
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Salinas Landing bore N.E. x E. 1/4 E. (Mag.)  
 distant 1 1/2 miles.

62 fms.

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.

Numerous mud worm tubes.  
 Numerous Dentalia. Numerous  
 small shells washed from the mud.

No. 3134 *DE* Date Mar 14<sup>th</sup> '90.

Tanner Machine. - Reel.

Turns 12 Cor. + 1 Depth 13 fms.

Shot or lead 25 lbs

Bottom fine S + M

Bottom temperature 54.2'

No. of Thermometer 61751 Cor. +0.30

Corrected temperature 54.5°

Air 59° Surface 54° Drift. N. 1/4 W.

Trawl or dredge or tangles Large Beam

*PM* SOUNDING WIRE.

DOWN.

UP.

4.21.50 42.40

2.2.50 21.22.50

TURNS.

0

50

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*PM* DREDGE ROPE.

DOWN.

UP.

4.24.55 42.40

29.10 4.40.55

Pajaro Wharf bore S. N. E. (Mag)  
distant 1 1/10 miles.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
<i>1/2 mile.</i>	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.

*4 large Lunatia - 1 doz. Ponsador.  
 Numerous small shells washed  
 from the mud.*

H.C. 507  
 J.B.

No. 3135 *DL* Date *Mar. 14<sup>th</sup> 1890.*  
 Tanner Machine. — Reel.

Turns 15 Cor. + — Depth 15 fms.

Shot or lead 25 lbs.

Bottom *fm. gy. S.*

Bottom temperature 54.4°

No. of Thermometer 61751 Cor. +0.3°

Corrected temperature 54.7°

Air 59° Surface 54° Drift. *N. 1/4 S.*

Trawl or dredge or tangles *Large beam.*

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5.13.50	14.20	0	5.15.00	28.02
14.00	5.14.05	50	17.30	5.31.15
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Santa Cruz Lt. Ho. Core No. 11, 3/8 W. (Mag.)  
 distant 6 miles.*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
1/2 mile.	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURE.

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

REMARKS.

2 flounders  
 6 Roncador  
 a few v. shells

No. 3136 *DI* Date *Mar 15<sup>th</sup> 1890*  
*Hand lead Machine. — Reel.*

Turns — Cor. + — Depth *7 fms.*

Shot or lead *12 lbs.*

Bottom *gy. s.*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air *49°* Surface *57°* Drift. *1/4 N. 1/2 W.*

Trawl or dredge or tangles *Small beam.*

<i>SM</i> SOUNDING WIRE.		TURNS.	<i>SM</i> DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6.24.00</i>	<i>6.25.00</i>	0	<i>6.26.00</i>	<i>38.50</i>
		<i>30</i>	<i>28.30</i>	<i>6.36.15</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		

*Santa Cruz St. Is. bore N. S. W. 1/2 W. (Mag.)  
distant 10 1/10 miles.*

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				

2 dg. Roncador. REMARKS. Two Perch.  
100 y. Smelts. 1 large Flounder.  
1 Skate. 1 Rock Fish. Shrimps.



507  
*N.W. 3.*

No. *3137* Date *Mar. 15<sup>th</sup> 1890.*

Hand lead Machine. — Reel.

Turns — Cor. + — Depth *17 fms.*

Shot or lead *12 lbs.*

Bottom *S. & P.*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air *50°* Surface *52°* Drift. *N 1/4 W. 2'*

Trawl or dredge or tangles *Small beam.*

<i>N.W.</i> SOUNDING WIRE.		TURNS.	<i>N.W.</i> DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6.43.20</i>	<i>6.44.00</i>	0	<i>6.44.45</i>	<i>56.50</i>
		<i>40</i>	<i>46.30</i>	<i>6.55.00</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		

*Santa Cruz St. Ho. bore N.W. x N. (Mag.)  
distant 7/10 mile.*

	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.

6 Boncador.	1 Hag fish.
6 Perch.	<del>Crab.</del>
1 Skate.	1 Midshipman.
Few shrimps.	1 Rock Crab.
Ascidians.	

No. 3138 *DI* Date *Mch. 15<sup>th</sup> 1890.*

Tanner Machine. — Reel.

Turns 19 Cor. + — Depth 19 fms.

Shot or lead 25 lbs.

Bottom *fine s. & M. St.*

Bottom temperature 55.1°

No. of Thermometer 61751 Cor. +0.3°

Corrected temperature 55.4°

Air 52° Surface 52° Drift. *S. 21.2*

Trawl or dredge or tangles *Slips.*

*A.M.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

*A.M.*

DREDGE ROPE.

DOWN.

UP.

7.08.40

09.05

0

7.10.00

17.35

08.46

7.08.50

30

11.35

7.16.15

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Punta Cruz Pt. So. bore N. 1/2 N. (Mag.)  
distant 1 68/10 miles.*

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.

*Few shells washed out of sand:*

607

No. 3139 JK Date Mch. 15<sup>th</sup> 1890.

Tanner Machine. — Reel.

Turns 26 Cor. + 1 Depth 27 fms.

Shot or lead 25 lbs.

Bottom gn. M.

Bottom temperature 52.6°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 52.9°

Air 52° Surface 52° Drift. 74.5 W, 5.2 N.

Trawl or dredge or tangles Skips.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7. 30. 00	30. 50	0	7. 32. 15	42. 20
30. 12	7. 30. 25	50	35. 00	7. 39. 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		

Santa Cruz St. Ho. bore N. 1/2 E. (mag.)  
 distant 13 miles.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
.2' mile	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				

Few small  
worms & shells  
washed from sand  
and mud.

REMARKS.

Feb 3 1897

No. 3140 *JF* Date Mar. 15 '90.

Tanner Machine. — Reel.

Turns 29 Cor. + 1 Depth 30 fms

Shot or lead 25 lbs.

Bottom M.

Bottom temperature 52°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 52.3°

Air 58° Surface 52° Drift. NW 0.2'

Trawl or dredge or tangles Ships

*J.M.*

SOUNDING WIRE.

DOWN. UP.

7.59.30 8.00.15  
 59.45 7.59.55

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

*J.M.*

DREDGE ROPE.

DOWN. UP.

8 01.30 11.30  
 8.02.20 8.10.00

Santa Cruz Lt. Sho. bearing N. E. x N. (Mag.)  
 distant 3 8/10 miles.

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				

*Worms*  
*and small shells.*

REMARKS.



1907

No. 3141 Date Mar. 15<sup>th</sup> 90.

Tanner Machine. — Reel.

Turns 23 Cor. + 1 Depth 24 fms

Shot or lead 35 lbs.

Bottom fine gy S. + M.

Bottom temperature 52.7°

No. of Thermometer 61757 Cor. +0.3°

Corrected temperature 53°

Air 53° Surface 52° Drift. NE + N. 0.2

Trawl or dredge or tangles Shipes

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8 22.15	23.05	0	8 25.10	32.10
22.30	8 22.32	100	27.15	8.30-29
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Santa Cruz Lt. Is. bearing N.E. 3/4 E. (Mag.)  
 distant 3 1/2 miles

	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.

*A few shells and worms*

No. 3142 <sup>80</sup> Date Mar 15 '90

Hand Lead Machine. Reel. —

Turns — Cor. + — Depth 13 fms

Shot or lead 12 lbs

Bottom fine s. + Rky. Patches

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 53 Surface 52 Drift. 2/10' East.

Trawl or dredge or tangles ships

97m

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

8.40.00

8.42.50

0

8.43.10

50.10

30

45.45

8.49.08

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Santa Cruz Lt. Ho. bearing N. 63 1/4 E. (Mag.) distant 2 1/2 miles.

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.

*a few small crabs. Shells and worms*

*J. E. B.*  
1897

No. 3143 <sup>bx</sup> Date Mar. 13 '90.

Hand Lead Machine. — Reel.

Turns — Cor. + — Depth 9 fms

Shot or lead 12 lbs

Bottom Rocky.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 57 Surface 53 Drift. E. 3/4 N.

Trawl or dredge or tangles ships

*J. E. B.*

SOUNDING WIRE.

DOWN.

UP.

9.00.00 9.02.00

TURNS.

*J. E. B.*

DREDGE ROPE.

DOWN.

UP.

9.04.05 07.30

05.25 9.05.45

7 hauls over Port side at 9.12 -  
Anat 9.21 -  
Calab Net

0  
28  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400

Santa Cruz Lt. Ho. 1/2 E. (Mag)  
distant 1 3/10 miles.

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

$\frac{2}{10}$  mile

SERIAL TEMPERATURE.

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

REMARKS.

Sledge came up badly torn and empty.

607 B

No. 3144 Date Mar 15<sup>th</sup> 1890.

Tanner Machine. — Reel.

Turns 19 Cor. + 1 Depth 20 fms

Shot or lead 25-lb

Bottom S. + G. Rks. M. to.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 57° Surface 54° Drift. S. 1/4 E.

Trawl or dredge or tangles slips

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.35.00	9.37.00	0	9.38.05	47.05
		50	47.45	9.46.15
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Santa Cruz St. Ho. bore N. N. E. 1/2 E. Magd distant 2 miles.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

2/10 mile.

## SERIAL TEMPERATURE.

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

## REMARKS.

Worms & shells (several species)  
 washed out of the mud & sand



613  
617

No. 3145 Date Mar 15 '90.

Ganner Machine. Reel.

Turns 54 Cor. + 2 Depth 56 fms

Shot or lead 25 lbs

Bottom fine gy S

Bottom temperature 49 1/2 °

No. of Thermometer 61751 Cor. -

Corrected temperature 49.5 °

Air 57 Surface 54 Drift N. 1/4 W.

Trawl or dredge or tangles Large beam.

Santa Cruz Is. Ho. bore N. x E. (Mag.)  
distant 6 1/10 miles.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.26.15	10.28	0	10.36.25	02.05
27.05	10.27.0)	100	41.40	11 00 05
		150	42.20	10 58.15
		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	
1 mile.	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.

About 40 Madshipmen  
 1 box flounders 2 species  
 1/2 Sea Pens  
 2 very small fish 1 squid

607  
63

No. 3146 Date May 15 90

Tanner Machine. Reel.

Turns 60 Cor. + 2 Depth 62 fms

Shot or lead 25 lbs

Bottom gn. m. + Rks

Bottom temperature 49.5

No. of Thermometer 61751 Cor. —

Corrected temperature 49.5

Air 57° Surface 54° Drift.

Trawl or dredge or tangles Small Beam

P.M.

SOUNDING WIRE.

DOWN. UP.

11.50.15 51.55

50.55 11.51.—

TURNS.

0  
100  
110  
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.

11.53.05 12.30

12.04.50 11.50

07.15 12.09.00

Santa Cruz St. Ho. bore N.E. 3/4 E. (Mag.)  
distant 9 miles.

02

	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.

50 Midshipmen - 1 large sea anemone  
 2 Skates. 1 Flounder.  
 Saw shells. 2 Holothurians.  
 1 small sea urchin.

1507

No. 2157 Hyd. Date Mch. 15<sup>th</sup> 1890

Tanner Machine. - Reel.

Turns 94 Cor. + 3 Depth 97 fms.

Shot or lead 25 lbs.

Bottom cr. bk. s. & M.

Bottom temperature 47.6°

No. of Thermometer 61751 Cor. -

Corrected temperature 47.6°

Air 57° Surface 55° Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1. 19.30	22.30	0		
20.30	1. 20.45	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

N.C. 2.

Surface tow net.

P.M.

1.30.00 1.40.00

	2500	
	2600	
	2700	
	2800	
Saw school	2900	of whale.
+ large	3000	numbers of
sea birds -	3100	feeding on
the surface.	3200	
	3300	
Gulls - <del>Hullemot</del>	3400	Gullimots.
Black footed	3500	+ short tailed
Seabirds	3600	
	3700	
	3800	
Sano Nuevo	3900	Pt. bore
N. x M. (Mag)	4000	dist. 8 miles

SERIAL TEMPERATURE.

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

REMARKS.

1103  
507

No. 3147 *D* Date *Mch. 15<sup>th</sup> 1890*  
*Tanner* Machine. — Reel.

Turns *54* Cor. + *2* Depth *56 fms.*

Shot or lead *25 lbs.*

Bottom *br. M.*

Bottom temperature *49.2°*

No. of Thermometer *61751* Cor. —

Corrected temperature *49.2°*

Air *57°* Surface *55°* Drift. *N. N. W.*

Trawl or dredge or tangles *Small beam.*

*3 M.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.59.30</i>	<i>01.40</i>	0	<i>2.05.00</i>	<i>31.25</i>
<i>59.55</i>	<i>2.00.15</i>	100	<i>09.30</i>	<i>2.27.00</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Ani Nuevo Pt., bore N. x N. 5/4 W. (Mag.)  
 distant 6 1/2 miles*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
1/2 mile.	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				

4600  
 570  
 ---  
 4028  
 235  
 185  
 ---  
 52

50 Flounders. REMARKS. 6 species.  
 Several Small Star Fish. 3 sps. Few  
 Small Ophurans. Numerous Sea Urchins.  
 Pel Gorts. 80 Midshipmen. 2 sps of  
 Solithurians. 3 Siphonula shells.  
 Small worms and shells.  
 Pyrosopodia starfish. 2 skates



703  
107  
1890

No. 3148 *D<sup>e</sup>* Date *Mch. 15<sup>th</sup> 1890*

*Tanner* Machine. — Reel.

Turns *45* Cor. + *2* Depth *47 fms.*

Shot or lead *25 lbs.*

Bottom *br. m.*

Bottom temperature *51°*

No. of Thermometer *61751* Cor. + *0.3°*

Corrected temperature *51.3°*

Air *56°* Surface *54°* Drift. *---*

Trawl or dredge or tangles *Small Beam*

<i>P.M.</i> SOUNDING WIRE.		TURNS.	<i>P.M.</i> DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.59.30</i>	<i>01.30</i>	0	<i>4.03.00</i>	<i>28.40</i>
<i>59.55</i>	<i>4.00.00</i>	100	<i>4.09.05</i>	<i>425.30</i>
		<i>150</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200	<i>ika</i>	
		2300		
		2400		

*Pigeon Point Lt, No. bore N. E. 3/4 N. (Mag.)  
distant 4 1/2 miles.*

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.

6 doz Flounder (4 species) Sea Nettle  
 2 Skates 3 Murex shells. 2 naked  
 mollusks @ phinians. Several large  
 star-fishes. 2 small Midshipmen

507  
*Jas*

No. 3149 *DE* Date *Mch. 15<sup>th</sup> 1890*

*Tanner* Machine. - Reel.

Turns *43* Cor. + *2* Depth *45 fms*

Shot or lead *25 lbs.*

Bottom *gn. M.*

Bottom temperature *50.8°*

No. of Thermometer *61751* Cor. + *0.3°*

Corrected temperature *51.1°*

Air *55°* Surface *54°* Drift. *---*

Trawl or dredge or tangles *Small beam -*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.08.07</i>	<i>09.25</i>	0	<i>5.10.00</i>	<i>38.15</i>
<i>08.25</i>	<i>5.08.35</i>	100	<i>13.00</i>	<i>5.34.45</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Pigeon Point Lt. No. bore E. 1/2 S. (mag.) distant 7 1/2 miles.*

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 anchovies. 1 doz star fish  
 12 ~~Paroploys~~ flounders (Paroploys)  
 20 citharichthys flounders  
 5 ~~Hydrocephalus~~ flounders (Hydrocephalus)  
 3 roncadon. 12 midshipmen mostly small  
 1 doz Janiopsis. 1 Large Star fish

P. 3. P.  
507  
H.C. 2.

No. 3150 Date March 21<sup>st</sup> 1890  
Tanner Machine. Reel.

Turns 20 Cor. + 1 Depth 21

Shot or lead 25 lbs.

Bottom fine gy. S.

Bottom temperature 52°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 52.3°

Air 51 Surface 55 Drift. 1 1/2 N 40 E

Trawl or dredge or tangles Large beam.

SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-20-0	12-21-20	0	12.24.10	43.50
		60		
		100	26.50	12.41.45
		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				

12 doz large  
 few sponges. 5 sps. 1 Rock fish.  
 1 Skate. 1/2 doz Tom cod. 1 qt. Shrimps.  
 1 Tub-full large Medusa 1 Small  
 Sculpin. 1 Perch.  
 2 large Crabs - (Cancer Magister) -

REMARKS.

No. 3151 Dr. Date March 21/90  
Tanner, Machine. Reel.

Turns 36 Cor. + 1 Depth 37

Shot or lead 35 lbs.

Bottom crs. S. rd. Sp

Bottom temperature 51.3

No. of Thermometer 6751 Cor. +0.3°

Corrected temperature 51.6°

Air 52 Surface 55 Drift. 1.5 S.E.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-3-30	2-4-30	0	2-5-0	30-0
		100	2-9-45	2-25-0
		110	2-10-15	
		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.

24 *Flounders* - (5 species)  
 1 Crab.  
 6 species small shells.



507  
*C.P.R.*

No. 3152 Dr. Date March 21/90

Tanner Machine. Reel.

Turns 35 Cor. + 1 Depth 36

Shot or lead 25 lbs.

Bottom fine gy. s.

Bottom temperature 50.5

No. of Thermometer 61751 Cor. + 0.3

Corrected temperature 50.6

Air 52 Surface 55 Drift.

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.

P.W. DREDGE ROPE.

SOUNDING WIRE.		TURNS.	P.W. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3-22-30	3-24-0	0	3-23-30	49-0
		100	3-30-0	3-45-0
		110	32 50	
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



1703  
507

No. 3153 *D<sup>s</sup>* Date *Mch. 21<sup>st</sup> 1890.*  
*Tanner* Machine. — Reel.

Turns 31 Cor. + 1 Depth *32 fms.*

Shot or lead 25 lbs.

Bottom *gn. M.*

Bottom temperature 51.0°

No. of Thermometer 61751 Cor. +0.3°

Corrected temperature 51.3°

Air 52° Surface 52° Drift. North 1/2 mile

Trawl or dredge or tangles *Large beam -*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.04.45</i>	<i>05.45</i>	0	<i>5.06.15</i>	<i>29.45</i>
<i>05.02</i>	<i>05.05.10</i>	90	<i>11.30</i>	<i>5.26.35</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				

1 Crab - (*C. Boecksteinii*).  
 1 doz. Crabs - (*C. Magister*). Shells.  
 1 Roncador. 1 Octopus. A few Aley-  
 onarian Corals. 30 Paraplys.  
 12 *Citharichthys*. 6 *Glyptocephalus*.  
 2 doz. *Sachovides* - 2 doz. Small Sculpins -  
 (3 species). A few Tom cod, Rock fish,  
 Midshipmen. Skates, Small starfish and  
 shrimps.

170.2.  
607

No. 3154 *DS* Date *Mch. 21<sup>st</sup> 1890.*

Tanner Machine. — Reel.

Turns 19 Cor. + 1 Depth 20 fms

Shot or lead 25 lbs.

Bottom *He. S. & M.*

Bottom temperature 51.5°

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 51.8°

Air 51° Surface 52° Drift. *N. W. & W. 1/2 W.*

Trawl or dredge or tangles *large beam.*

*P.M.*

SOUNDING WIRE.

DOWN. UP.

5.44.45 45.20

44.55 5.45.00

TURNS.

0  
50  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400

*P.M.*

DREDGE ROPE.

DOWN. UP.

5.46.30 6.01.45

49.40 5.59.05

3/13 mile.

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 *P. Hellatus*. 6 *Paroshraps*.  
1 *Penronichthys decurrens* -  
1 *Sunatia* shell. 1/2 doz. Skates.  
1 doz. Midshipmen. 2 Crabs. *C. Mayster*

607  
*EB*

No. 3155-~~AE~~ Date *Mar. 22. 1890*

*Tanner* Machine. — Reel.

Turns 34 Cor. + 1 Depth 35-fms

Shot or lead 25-lbs

Bottom *gn. M.*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 37 Surface 32 Drift. *S 82 1/2 W 1/2 Mi*

Trawl or dredge or tangles *Large Beam*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4m</i>		0	<i>6.42.00</i>	<i>.03.10</i>
<i>6.40.00</i>	<i>6.41.00</i>	100	<i>6.45.00</i>	<i>7.04.00</i>
		110		
		200	<i>.47.00</i>	<i>7.00.00</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 TEMPERATURE.

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

3 long fin *Flounders*. REMARKS.

6 *Citharichthys* 6 *Parophrys* 6 *Roncador*  
12 Tom Cod. 2 Sea Anemones 2 species of Small  
Shells A few shrimps (2 species) 3 large crabs  
1 Whiting, 2 Midshipmen, 1 Heag  
fish + 1 Rock Cod.



J. E. B.  
T. H. P.No. 3156 <sup>J<sup>r</sup></sup> Date Mar 22. '90

Tanner Machine. — Reel.

Turns 48 Cor. + 2 Depth 50 fms.

Shot or lead 25-lbs

Bottom S.

Bottom temperature 45.3°

No. of Thermometer 6175-1 Cor. —

Corrected temperature 45.3°

Air 51 Surface 52 Drift.

Trawl or dredge or tangles Large Beam

A. W. SOUNDING WIRE.		TURNS.	A. W. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7. 45.15	46.30	0	7. 46.00	}
45.32	7. 45.45	100	55.15	
		200	56.45	8-12-0
		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.

60 <sup>a</sup> *Flammdina* 5 species  
 2 *Octopus* 1 Eel Pent  
 small shells 2 Squid  
 2 species *Burch.* 5 Star fish  
 3 *Javilepiss*

507  
*[Handwritten initials]*

No. 3157 Dr. Date March 22/90  
 Tanner Machine. Reel.

Turns 45 Cor. + 2 Depth 47

Shot or lead 75 lbs

Bottom fine g. s.

Bottom temperature 50.5

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 50.6°

Air 51° Surface 53° Drift. 1 1/2 m S 3/4 E

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9-0-0	9-1-30	0	9-2-30	9-6-30
		100	9-7-0	9-24-0
		120		
		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.

30 *Flounders, Citronia helicta*  
 few shales  
 1 *midshipman*

*Handwritten initials and scribbles*

No. 2158, Hyd Date March 22/90

Tanner Machine. Reel.

Turns 36 Cor. + 1 Depth 37

Shot or lead 25 lbs.

Bottom Sh.

Bottom temperature 51.7

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 52°

Air 53 Surface 53 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10-0-0	10-1-0	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.

APR 1901

No. 2159 Hyd Date March 21 1901

Tanner Machine. Reel.

Turns 38 Cor. + 1 Depth 39

Shot or lead 25 lbs.

Bottom Rocky.

Bottom temperature 51

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 51.3°

Air 53 Surface 53 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
AW	AW	0		
10-7-15	10-8-15	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.



507  
*C. A. P.*

No. 2160 Hyd. Date March 22/90

Annet Machine. Reel.

Turns 43 Cor. + 2 Depth 45

Shot or lead 25 lbs.

Bottom  $8\frac{1}{2}$  r Rky.

Bottom temperature 50.5

No. of Thermometer 61451 Cor. + 0.3°

Corrected temperature 50.8°

Air  $\sqrt{3}$  Surface  $\sqrt{3}$  Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>A. W.</i> 10-14-0	<i>A. W.</i> 10-15-0	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.

5071

No. 2161 Hyd Date March 22/90

Barney Machine. Reel.

Turns 28 Cor. + 1 Depth 29

Shot or lead 75 lbs.

Bottom Rxy.

Bottom temperature 51.1

No. of Thermometer 6175, Cor. + 0.3

Corrected temperature 51.4°

Air 53 Surface 53 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10-26-0	10-27-15	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		

Stopped to fish at 10.29 - 30 min.  
 Out 13 Lmies on ship's side.  
 Caught 2 Red Rock Cod.  
 Out in Lmie at 10.45 - 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.

6071

No. 3158 Dr. Date March 22/90

Canon Machine. Reel.

Turns 28 Cor. + 1 Depth 29

Shot or lead 25 lbs.

Bottom Rky.

Bottom temperature 51.2

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 51.4°

Air 53 Surface 53 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10-50-0

10-51-0

0

10-55-0

11-05-0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Put over 13 Limes at 11-10 and  
Caught -  
Took in Limes at 11-30

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

SERIAL TEMPERATURE.

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

REMARKS.

Small quantity of Red Corral  
 12                      Sponges  
 2                      Star fish  
 3                      Sea Urchins

No. 3159 Dr. Date March 22/90

Machine. — Reel.

Turns 26 Cor. + 1 Depth 27

Shot or lead 25 lbs.

Bottom Rky

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 53 Surface 53 Drift. —

Trawl or dredge or tangles

SOUNDING WIRE.

DOWN.

UP.

11-20-0 11-20-0

TURNS.

45<sup>0</sup>  
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.

11-22-0 11-30  
11-25-0 11-29-0

	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.

Slow fall  
 Red Coral  
 cup Coral  
 Sponge  
 Worms.



607  
*W.P.*

No. 3160 Dr. Date March 22/93

Tanner Machine. — Reel.

Turns 39 Cor. + 1 Depth 39

Shot or lead 25 lbs.

Bottom Rky.

Bottom temperature 51.5

No. of Thermometer 61751 Cor. +0.3°

Corrected temperature 51.8°

Air 52 Surface 52 Drift. —

~~Trawl or dredge or tangles~~

At 11-47-00 Trawl over ship's side, 13 min. Drift.  
 Tangles 1 inside RN and

SOUNDING WIRE.

DOWN.	UP.
11-45-0	11-46-0

TURNS.

0
50
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

*P.W.* DREDGE ROPE.

DOWN.	UP.
12-5-0	17-0
7-0	12-15-0

	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.

N.C. 607

No. 2162 Hyd. Date Mch. 22<sup>d</sup> 1890.

Tanner Machine. - Reel.

Turns 317 Cor. + 7 - Depth 324 fms.

Shot or lead 25 lbs.

Bottom G. & C.

Bottom temperature 42°

No. of Thermometer 61751 Cor. -

Corrected temperature 42°

Air 52 Surface 53 Drift. ~~~~~ N. 47 E.

Trawl or dredge or tangles

P.M.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.00. 40	08.50	0		
01. 30	07.10	100		
02. 20	05.40	200		
03. 10	04.05	300		
03. 30	1.03.45	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	
2 1/2 m	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. 3161 *D<sup>r</sup>* Date *Mch. 22<sup>d</sup> 1890.*

*Sigsbee* Machine. # 2 Reel.

Turns 175 Cor. + 16 Depth 191 fms.

Shot or lead 38 lbs.

Bottom *fine gy. s.*

Bottom temperature 44.5°

No. of Thermometer 61751 Cor. —

Corrected temperature 44.5°

Air 52 Surface 52 Drift. *NW + W 1/2 W*

Trawl or dredge or tangles *large beam- and*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.53.00	1.59.00	0	2.01.00	56.45
1.53.55	1.58.00	100	05.00	52.40
1.54.45	1.57.30	200	09.30	48.50
		300	11.30	46.00
		400	14.10	42.50
		450	16.45	2.41.00
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

182  
Mud bag.

SERIAL TEMPERATURE.

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

REMARKS.

12 pole, 2 sp. Flounders. 1/2 doz. Hag fish.  
3 Eel pouts. 2 sps. Rock fish.  
12 Sculpin. 6 Sea urchins. Few shrimp  
1/2 pt. Worms. Few small shells.  
20 small Rock fish.

170.507

No. 2163 Hyd. Date Mch. 22<sup>d</sup> 1890.

Sigsbee Machine, #2 Reel.

Turns 825 Cor. + 75 Depth 900 fms.

Shot or lead 35 lbs.

Bottom gr. M.

Bottom temperature 36.8°

No. of Thermometer 61751 Cor. —

Corrected temperature 36.8°

Air 52 Surface 53 Drift.

Trawl or dredge or tangles

C.M.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3. 32. 45	52. 35	0		
33. 30	51. 45	100		
34. 20	51. 00	200		
35. 20	50. 15	300		
36. 20	49. 30	400		
37. 35	48. 40	500		
38. 50	47. 55	600		
40. 15	47. 00	700		
41. 30	45. 55	800		
41. 50	2. 45. 20	825 900	5.2	
		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.



5070  
*ye P*

No. 3162<sup>50</sup> Date March 22<sup>nd</sup> 1890

Sigsbee Machine. 2 Reel.

Turns 506 Cor. + 47 Depth 553 fms

Shot or lead 38 lbs

Bottom gn M.

Bottom temperature 39°

No. of Thermometer 61751 Cor. —

Corrected temperature 39°

Air 52 Surface 53 Drift. 2½' N x W by W

Trawl or dredge or tangles Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4 34.40	47.10	0	4.50.45	31.15
36.15	46.15	100	55.50	27.51
37.10	45.50	200	58.15	26.10
39.15	45.05	300	5-01.15	23.30
40.20	44.15	400	04-0	20.20
41.35	43.30	500	6-30	16.45
41.45	42-45-45	600	9.30	11.30
		700	11-30	08.30
		800	14-30	04.15
		900	17-0	6.-00.45
		1000	20-0	57.15
		1100	23.45	5-46-02
		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 Anthomastus, few deep water  
 shrimps 1 small fish  
 Trawl net came up foul.

507  
*JLB*

No. 3163 *J<sup>2</sup>* Date Mar. 22. 90

Sigsbee Machine. 2 Reel.

Turns 64 Cor. + 5 Depth 69 fms

Shot or lead 38 lbs

Bottom fine gy S

Bottom temperature 48.5°

No. of Thermometer 61751 Cor. —

Corrected temperature 48.5°

Air 50 Surface 52 Drift. 2' NE-N

Trawl or dredge or tangles Large Beam

*P.M.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

*P.M.*

DREDGE ROPE.

DOWN.

UP.

7.06.15

09.09

0

7.13.15

51.10

07.09

7.08.25

100

7.19.40

53.10

200

26.05

7.50.00

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

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

SERIAL TEMPERATURE.

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

REMARKS.

3 Skates 1 Rat fish 20 Flounder -  
(3 species) 1/2 doz Rock Cod 2 species  
1 doz. Eel pouts. 1 Ganidopsis. 3-4 Sculpin  
1 doz. crinoids. 2 or 3 large ophiurians  
a few annelids 2 species pectens  
Some stones. Net came up torn.

507  
*AP*

No. 3164 Sr. Date March 23/90

Tanner Machine. — Reel.

Turns 59 Cor. + 2 Depth 61

Shot or lead 25 lbs.

Bottom Rky

Bottom temperature 48.5

No. of Thermometer 61751 Cor. —

Corrected temperature 48.50

Air 49 Surface 50 Drift. 1m E 1/2 S

Trawl or dredge or tangles Ship's Tredy.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*down*

*down*

5-31-0

5-32-0

0

5-37-0

59-0

100

43-0

5-55-0

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 Star fish  
 3 Verrillia?  
 a few Shells  
 4 Holothurian

5071  
 5071  
 5071

No. 3165 Dr. Date March 23/90  
 Sigsbee Machine. - Reel.

Turns 48 Cor. + 2 Depth 50

Shot or lead 25 lbs.

Bottom gn. m.

Bottom temperature 49

No. of Thermometer 61751 Cor. -

Corrected temperature 49°

Air 49 Surface 50 Drift.  $\frac{7}{10}$  m. N 84 E

Trawl or dredge or tangles Ship's Dredge

SOUNDING WIRE.

DOWN. UP.

6-30-30 6-32-0

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.

6-32-30 50-0  
 35-0 6-46-30

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

SERIAL TEMPERATURE.

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

REMARKS.

*Small shells & worms.*



No. 3166 Dr. Date March 23/90  
 Cannon Machine. — Reel.

Turns 40 Cor. + 2 Depth 42

Shot or lead 25 lbs.

Bottom gn m

Bottom temperature 50

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 50.3°

Air 52 Surface 52 Drift. 1/2 m S 1/2 W

Trawl or dredge or tangles Small Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7-20-30	7-21-30	0	7-23-0	50-15
		100	26-0	7-50-0
		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.

4 sps. Floanders 6 large Crabs.  
Star fish.

1703  
507

No. 3167 *Dr* Date *Mch. 23<sup>d</sup> 1890.*  
*Tanner* Machine. - Reel.

Turns *32* Cor. + *1* Depth *33 fms.*

Shot or lead *25 lbs.*

Bottom *gn. M.*

Bottom temperature *49.5°*

No. of Thermometer *61751* Cor. -

Corrected temperature *49.5°*

Air *53°* Surface *52°* Drift. *E. 1/2 S.*

Trawl or dredge or tangles *small beam.*

*a.m.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8. 22 .30</i>	<i>24.00</i>	0	<i>8. 25.30</i>	<i>51.00</i>
<i>23.00</i>	<i>8. 23.12</i>	50	<i>27.50</i>	<i>8. 48.05</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

H<sub>2</sub> m.

## SERIAL TEMPERATURE.

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

2 large Hag fish - *Myxine glutinosa*  
 REMARKS. 1 large Medusa.  
 50 Flounders. (5 spp.) - 200 Anchovies  
 2 small Star fishes -  
 1 naked Mollusk -  
 Several Acyonarians.

*JEB*  
507

No. 2164 *Keyd* Date Mar 24. 1890

Tanner Machine. - Reel. -

Turns 58 Cor. + 2 Depth 60 fms

Shot or lead 25 lbs

Bottom Sh + S

Bottom temperature 49.7°

No. of Thermometer 61751 Cor. -

Corrected temperature 49.7°

Air 51 Surface 51 Drift.

Trawl or dredge or tangles

*am*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.09.20	11.45	0		
09.55	9.10-02	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	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  
*LB*

No. 265 *Lloyd* Date Mar. 24 1890  
 Tanner Machine. — Reel.

Turns 38 Cor. + 1 Depth 39 fms

Shot or lead 25 lbs

Bottom R

Bottom temperature 50.9'

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 51.2°

Air 51 Surface 51 Drift. 51

Trawl or dredge or tangles

*J.M.*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

9. 28 45

30 00

0

29 05

9. 29-15

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.



507  
JEB

No. 2166 Rev Date Mar. 24<sup>th</sup> 90

Tanner Machine. — Reel.

Turns 34 Cor. + 1 Depth 35 fms

Shot or lead 25 lbs

Bottom Rky.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 51 Surface 57 Drift.

Trawl or dredge or tangles

AM

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

9.35.00

9.27.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	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.

607  
 1613

No. 2167 Key Date Mar. 24 90

Tanner Machine. Reel.

Turns 36 Cor. + 1 Depth 37 fms

Shot or lead 25 lbs

Bottom Rky

Bottom temperature 51.0

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 51.3°

Air 52 Surface 52 Drift.

Trawl or dredge or tangles

5221

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.42.50	44-	0		
42.07	9.43.10	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  
J.B.

No. 2168 *Keyd* Date Mar. 24 '90

Tanner Machine. — Reel.

Turns 29 Cor. + 1 Depth 30 fms

Shot or lead 25 lbs

Bottom Rky + Co.

Bottom temperature 51

No. of Thermometer 61751 Cor. + 0.3°

Corrected temperature 51.3°

Air 52 Surface 52 Drift.

Trawl or dredge or tangles

A.M.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9. 51. 15 52:10

51. 45 9. 51. 48

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.

607  
9613

No. 31682 Date Mar. 24. 90

Tanner Machine. - Reel.

Turns 33 Cor. + 1 Depth 34

Shot or lead 25 lbs

Bottom Rky + lo.

Bottom temperature

No. of Thermometer 61751 Cor. -

Corrected temperature

Air 52 Surface 52 Drift. 5' n/w

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.58.10	07-	0	10.36.15	53.30
58.30	10.05-	58	38.20	10.50.15
		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 lines over starboard side at 10.13  
In at 10.39 Red  
Catch 1 Orange Rock fish

At 3.37 P.M. returned to this position and  
fished again with 13 hand lines over starboard side.

Catch - 28 Red Rock fish - average weight 4 1/2 lbs.  
2 Yellow tail rock fish.  
1 Orange rock fish.  
2 Cuttle Cod.

and returned at 4:10 P.M. - having

average weight 6 1/2 lbs.  
" 25 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	Dory lowered at 10.00 Caught: 45 Red Rock Fish 2 Cuttle Cod			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS.

Wire caught in bottom + broke.  
Red Thermometer # 61751 & 5 fms line  
& 1-25 lb lead

Cup Coral + Sponges



507  
 213

No. 2169 *Key* Date *Mar 24 90*

*Tanner* Machine. — Reel.

Turns 38 Cor. + 2 Depth 40

Shot or lead 25 lb

Bottom *Rky*

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 52° Surface 52° Drift.

Trawl or dredge or tangles

*J.M.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11.00.15 .01.30

0

.00.45 1400.50

100

200

300

400

500

600

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	2500	
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	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				
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700				
800				
900				
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REMARKS.

507  
283

No. 2170 Reel Date Mar. 24, 90

Tanner Machine. - Reel.

Turns 53 Cor. + 2 Depth 55

Shot or lead 25 lbs

Bottom Co Bk S. + brk Sh.

Bottom temperature -

No. of Thermometer - Cor. -

Corrected temperature -

Air 52° Surface 52° Drift.

Trawl or dredge or tangles -

507

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

11. 16.50 11. 18.30

0

17. 15 17. 18

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				
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700				
800				
900				
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REMARKS.

No. 2178 Key Date Mar. 24 90

Tanner Machine. — Reel.

Turns 63 Cor. + 2 Depth 65 fms

Shot or lead 25-lbs

Bottom gy. S. S. bk Sh.

Bottom temperature —

No. of Thermometer — Cor. —

Corrected temperature —

Air 52 Surface 52 Drift.

Trawl or dredge or tangles —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.26.30	28.15	0		
27.05	11.27.10	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. 2172 *Hy* Date Mar. 24. 90

Tanner Machine. - Reel.

Turns 135 Cor. + 4 Depth 139 fms

Shot or lead 25-lbs

Bottom G. & bk. sh.

Bottom temperature \_\_\_\_\_

No. of Thermometer \_\_\_\_\_ Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air 55 Surface 55 Drift. \_\_\_\_\_

Trawl or dredge or tangles \_\_\_\_\_

*J.M.*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

11. 38. 05

42. 30

0

39. 06

40. 10

100

39. 45

39. 50

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				
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REMARKS.



507  
*Y. 13*

No. *2173* Date *Mar 24. 90*

*Tanner* Machine. — Reel.

Turns *71* Cor. + *2* Depth *73 fms*

Shot or lead *25 lbs*

Bottom *Rk.*

Bottom temperature \_\_\_\_\_

No. of Thermometer \_\_\_\_\_ Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air *55* Surface *55* Drift.

Trawl or dredge or tangles \_\_\_\_\_

*P.M.*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

*11.50.40*

*5230*

0

*57.20*

*11.51.25*

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.

507  
JEB

No. 2174 Key Date Mar. 24. 90

Tanner Machine. Reel.

Turns 54 Cor. + 2 Depth 56 fms

Shot or lead 25 lbs

Bottom brk sh.

Bottom temperature

No. of Thermometer

Cor.

Corrected temperature

Air 55 Surface 55 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

12-01-30 02-35 0

02-05 12-02-30 100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

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	2500	
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	2800	
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	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURE.

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

REMARKS.

No. 2,757y. Date March 24/90

Turns or Machine. Reel.

Turns 33 Cor. + 1 Depth 34

Shot or lead 25 lbs

Bottom R & G.

Bottom temperature

No. of Thermometer Cor.

Corrected temperature

Air 55 Surface 55 Drift.

Trawl or dredge or tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.W. 12-13-0	12-14-30	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.