

#4. California Coast.

D^r. 4356 to D^r. 4382.

H^y. 4791 to H^y. 4796.

Feb. 15th to 18th, 1904.

// 4.

Dr. 4356 - Dr.

Hy. 4791 - Hy

next Hy = 4797

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

SERIAL TEMPERATURES.

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

REMARKS:

No.

(current)

4791

Date

15 Mar. 1904

Tanner Machine.

Reel.

Turns 36 Cor. + 1

Depth

37 fms.

Shot or lead 26 lb

Bottom fine. gy. S.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 55 Surface 57

Drift

~~Trawl or dredge~~

Am. SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

7.49. - 7.54

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

Pt. Loma Light, N 31° E., 2 1/10'

OK H.C. 7.		2500	(Current work.)
		2600	
		2700	CS # 5100.
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

1007
F. H. K.

10.1.96.6

No. *Dr. 4356.* Date *15 Mar. 04*

Tanner Machine. Reel.

Turns *118* Cor. + *2* Depth *120 fms.*

Shot or lead *26 lb*

Bottom *gn. M.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *57* Surface *57*

Drift *(57° N. 1 1/10')*

Trawl or dredge *8' Trawl, Sinkers, 2 Gal. Shells, Mud Bar.*

am. SOUNDING WIRE.

DOWN.

UP.

TURNS.

am. DREDGE ROPE.

DOWN.

UP.

8.22.45

27.30

0

8.28.30

9.11.40

24.50

25.35

100

31.50

08.00

8.25.00

8.25.15 → 118

200

8.35.00

9.08.30

300

= 28 1/2 min

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

Intermediate

Sounding; Trawl. Mud: 500

8.35.40

120 fms.

9.45.20

127

8.46.00

128

Townsend's Net,

100 fms down,

net closed:

9.04 to 9.11

= 7 min

Used as vertical net

(line is approximate)

St. Loma Light. N 82° 30' E, 5 9/10'

OK
HCB
N/A

Course W 1/4 S 2000 ft. h. compass

Overcast, misty and heavy dew.

Lat. airs from N.E.

Rav. 30.10

Therm. at 58°

Smooth sea, gentle swell.

A few porpoises,

numerous bottle sn.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Condition weather.

Animal life.

SERIAL TEMPERATURES.

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

REMARKS:

No. *E. 4356.* Date *15 May. 04.*

Tanner Machine. Reel.

Turns *129* Cor. + *2* Depth *131 fms.*Shot or lead *26 lb*Bottom *gn. sh.*Bottom temperature *48.2 22*No. of thermometer *98242* Cor.

Corrected temperature

Air *55* Surface *57* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.04.40</i>	<i>9.11.40</i>	0		
<i>05.20</i>	—	100		
<i>9.06.30</i>	<i>9.09.30</i>	<i>122</i> 129		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

OK
H.C.B.

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *D. 4357* Date *15 Mar. 04.*

Tanner Machine. Reel.

Turns *132* Cor. + *2* Depth *134 fms.*Shot or lead *26 lb*Bottom *gn. fl.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *55°* Surface *58°* Drift *{ N 83° W*
*7/10'*Trawl or dredge *as before.*

Am. SOUNDING WIRE.

DOWN.

UP.

TURNS.

Am. DREDGE ROPE.

DOWN.

UP.

*9.18.20 9.23.00**0**19.20 20.40**100**9.19.55 9.20.10**132**200**250**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400**9.18.10 10.01.15**56.50**9.25.00 54.20**53.30**= 28 min*

Tanner

Intermediate Sigs:

*9.33.00 - 142 fms.**9.45.00 - 156 "*

Surface Net:

*9.32.15 - 9.53.15**= 21 min.*

Townsend's self closing

as Vertical Net,

*100 fms.**9.56.00 - 10.03.20**7 min.*

St. Loma Light, N 81° E, 7⁵/₁₀'

	2500	
	2600	
	2700	
<i>Carise</i> N 1/2 N,	2800	<i>h. compass (N. by N.)</i>
<i>Overcast and misty.</i>	2900	
<i>Lt. airs from S. E.</i>	3000	
<i>Bar. 30.11</i>	3100	
<i>Therm. at. 59.5</i>	3200	
<i>Smooth sea, gentle</i>	3300	<i>swell.</i>
<i>Numerous gulls.</i>	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *E. 4357* Date *15 Mar 04*

Tanner Machine. Reel.

Turns *153* Cor. + *2* Depth *155 fms*

Shot or lead *26 lb*

Bottom *gn. M.*

Bottom temperature *46.8*

No. of thermometer *98242* Cor.

Corrected temperature

Air *57* Surface *59* Drift

Trawl or dredge

Am. SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>9.56.20</i>	<i>10.03.35</i>	<i>0</i>		
<i>57.00</i>	<i>01.30</i>	<i>100</i>		
<i>9.57.25</i>	<i>10.00.25</i>	<i>153</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>		

OK
J.H.B.
3

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr. 4358* Date *15 Mar. 04*

Machine. Reel.

Turns *165* Cor. + *2* Depth *167 fms*Shot or lead *26 lb*Bottom *fm. gy.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *57* Surface *59* Drift *(X 60° N)*Trawl or dredge *as before.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10 10 10.14.20 0 10.08.15 10.55.00

10-11 2.00 100

15.30 200

10.17.00 250 10.45.00

300

400 = 28 min.

500

Surface Net:

10.20.00-10.45.00 600

= 25 min 700

800

900

10 47 to 10 54

7 min

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Intermediate Sigs.

10.23.00 177 fms.

10.25.00 187 fms.

10.27.00 197 fms.

10.29.00 207 fms.

10.31.00 217 fms.

10.33.00 227 fms.

10.35.00 237 fms.

10.37.00 247 fms.

10.39.00 257 fms.

10.41.00 267 fms.

10.43.00 277 fms.

10.45.00 287 fms.

10.47.00 297 fms.

10.49.00 307 fms.

10.51.00 317 fms.

10.53.00 327 fms.

10.55.00 337 fms.

10.57.00 347 fms.

10.59.00 357 fms.

11.01.00 367 fms.

11.03.00 377 fms.

11.05.00 387 fms.

11.07.00 397 fms.

11.09.00 407 fms.

11.11.00 417 fms.

11.13.00 427 fms.

11.15.00 437 fms.

11.17.00 447 fms.

11.19.00 457 fms.

11.21.00 467 fms.

11.23.00 477 fms.

11.25.00 487 fms.

11.27.00 497 fms.

11.29.00 507 fms.

11.31.00 517 fms.

11.33.00 527 fms.

11.35.00 537 fms.

11.37.00 547 fms.

11.39.00 557 fms.

11.41.00 567 fms.

11.43.00 577 fms.

11.45.00 587 fms.

11.47.00 597 fms.

11.49.00 607 fms.

11.51.00 617 fms.

11.53.00 627 fms.

11.55.00 637 fms.

11.57.00 647 fms.

11.59.00 657 fms.

12.01.00 667 fms.

12.03.00 677 fms.

12.05.00 687 fms.

12.07.00 697 fms.

12.09.00 707 fms.

12.11.00 717 fms.

12.13.00 727 fms.

12.15.00 737 fms.

12.17.00 747 fms.

12.19.00 757 fms.

12.21.00 767 fms.

12.23.00 777 fms.

12.25.00 787 fms.

12.27.00 797 fms.

12.29.00 807 fms.

12.31.00 817 fms.

12.33.00 827 fms.

12.35.00 837 fms.

12.37.00 847 fms.

12.39.00 857 fms.

12.41.00 867 fms.

12.43.00 877 fms.

12.45.00 887 fms.

12.47.00 897 fms.

12.49.00 907 fms.

12.51.00 917 fms.

12.53.00 927 fms.

12.55.00 937 fms.

12.57.00 947 fms.

12.59.00 957 fms.

13.01.00 967 fms.

13.03.00 977 fms.

13.05.00 987 fms.

13.07.00 997 fms.

13.09.00 1007 fms.

13.11.00 1017 fms.

13.13.00 1027 fms.

13.15.00 1037 fms.

13.17.00 1047 fms.

13.19.00 1057 fms.

13.21.00 1067 fms.

13.23.00 1077 fms.

13.25.00 1087 fms.

13.27.00 1097 fms.

13.29.00 1107 fms.

13.31.00 1117 fms.

13.33.00 1127 fms.

13.35.00 1137 fms.

13.37.00 1147 fms.

13.39.00 1157 fms.

13.41.00 1167 fms.

13.43.00 1177 fms.

13.45.00 1187 fms.

13.47.00 1197 fms.

13.49.00 1207 fms.

13.51.00 1217 fms.

13.53.00 1227 fms.

13.55.00 1237 fms.

13.57.00 1247 fms.

13.59.00 1257 fms.

14.01.00 1267 fms.

14.03.00 1277 fms.

14.05.00 1287 fms.

14.07.00 1297 fms.

14.09.00 1307 fms.

14.11.00 1317 fms.

14.13.00 1327 fms.

14.15.00 1337 fms.

14.17.00 1347 fms.

14.19.00 1357 fms.

14.21.00 1367 fms.

14.23.00 1377 fms.

14.25.00 1387 fms.

14.27.00 1397 fms.

14.29.00 1407 fms.

14.31.00 1417 fms.

14.33.00 1427 fms.

14.35.00 1437 fms.

14.37.00 1447 fms.

14.39.00 1457 fms.

14.41.00 1467 fms.

14.43.00 1477 fms.

14.45.00 1487 fms.

14.47.00 1497 fms.

14.49.00 1507 fms.

14.51.00 1517 fms.

14.53.00 1527 fms.

14.55.00 1537 fms.

14.57.00 1547 fms.

14.59.00 1557 fms.

15.01.00 1567 fms.

15.03.00 1577 fms.

15.05.00 1587 fms.

15.07.00 1597 fms.

15.09.00 1607 fms.

15.11.00 1617 fms.

15.13.00 1627 fms.

15.15.00 1637 fms.

15.17.00 1647 fms.

15.19.00 1657 fms.

15.21.00 1667 fms.

15.23.00 1677 fms.

15.25.00 1687 fms.

15.27.00 1697 fms.

15.29.00 1707 fms.

15.31.00 1717 fms.

15.33.00 1727 fms.

15.35.00 1737 fms.

15.37.00 1747 fms.

15.39.00 1757 fms.

15.41.00 1767 fms.

15.43.00 1777 fms.

15.45.00 1787 fms.

15.47.00 1797 fms.

15.49.00 1807 fms.

15.51.00 1817 fms.

15.53.00 1827 fms.

15.55.00 1837 fms.

15.57.00 1847 fms.

15.59.00 1857 fms.

16.01.00 1867 fms.

16.03.00 1877 fms.

16.05.00 1887 fms.

16.07.00 1897 fms.

16.09.00 1907 fms.

16.11.00 1917 fms.

16.13.00 1927 fms.

16.15.00 1937 fms.

16.17.00 1947 fms.

16.19.00 1957 fms.

16.21.00 1967 fms.

16.23.00 1977 fms.

16.25.00 1987 fms.

16.27.00 1997 fms.

16.29.00 2007 fms.

16.31.00 2017 fms.

16.33.00 2027 fms.

16.35.00 2037 fms.

16.37.00 2047 fms.

16.39.00 2057 fms.

16.41.00 2067 fms.

16.43.00 2077 fms.

16.45.00 2087 fms.

16.47.00 2097 fms.

16.49.00 2107 fms.

16.51.00 2117 fms.

16.53.00 2127 fms.

16.55.00 2137 fms.

16.57.00 2147 fms.

16.59.00 2157 fms.

17.01.00 2167 fms.

17.03.00 2177 fms.

17.05.00 2187 fms.

17.07.00 2197 fms.

17.09.00 2207 fms.

17.11.00 2217 fms.

17.13.00 2227 fms.

17.15.00 2237 fms.

17.17.00 2247 fms.

17.19.00 2257 fms.

17.21.00 2267 fms.

17.23.00 2277 fms.

17.25.00 2287 fms.

17.27.00 2297 fms.

17.29.00 2307 fms.

17.31.00 2317 fms.

17.33.00 2327 fms.

17.35.00 2337 fms.

17.37.00 2347 fms.

17.39.00 2357 fms.

17.41.00 2367 fms.

17.43.00 2377 fms.

17.45.00 2387 fms.

17.47.00 2397 fms.

17.49.00 2407 fms.

17.51.00 2417 fms.

17.53.00 2427 fms.

17.55.00 2437 fms.

17.57.00 2447 fms.

17.59.00 2457 fms.

18.01.00 2467 fms.

18.03.00 2477 fms.

18.05.00 2487 fms.

18.0

PA Loma Light. N 82° 30' E., 8 3/10'

	2500	
	2600	
	2700	
Course: W. by N	2800	
Overcast, misty, etc.	2900	
Light breeze from	3000	S.E.
Bar. 30.11	3100	
Therm. at 61°	3200	
Smooth sea, gentle	3300	swell
sea gulls	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300		4112 - 185		
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. Date 15 Mar. 1904

Sigsbee Machine.

Reel. Turns $\times$) Cor. +Depth $\times$) ~~Shot or lead~~ 36 lbBottom

Bottom temperature

48.9°

No. of thermometer

98242Cor. Corrected temperature Air 59Surface 60Drift ~~Trawl or dredge~~

am SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

10.46.4010.51.50

0

10.47.3010.50.3091
100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

$\times$) Let down 91 turns
100 fms. for
temperature:
48.9°

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *E. 4358* Date *15 Mar. 1904**Sigsbee* Machine. Reel.Turns *175* Cor. + *16* Depth *191 fms.*Shot or lead *36 lb*Bottom *gn. M.*Bottom temperature *45.4°*No. of thermometer *98242* Cor.

Corrected temperature

Air *57* Surface *60* DriftTrawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DREDGE ROPE.	
			DOWN.	UP.
<i>10.52.50</i>	<i>10.57.10</i>	0		
<i>54.55</i>	<i>58.30</i>	100		
<i>10.55.00</i>	<i>10.58.00</i>	175		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4112	18.5	2500	
175	169	2600	
3937	16	2700	
	175	2800	
	191	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
	175	3900	
	192	4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr. 4359*. Date *15 March 04**Sigsbee* Machine. Reel.Turns *175* Cor. + *16*Depth *191 fms.*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature is

Cor.

Air

Surface

Drift

Trawl or dredge

as before

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*10 - 55**same as**E 4358*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*11. 01. 00**04.30**11. 15. 00**40.50**11. 10. 50**11. 38. 00**= 28 min.**min.**Sigsbee net, Sigs.**11. 18. 00**28.00**158**Surf. Net:**11. 17. 30**11. 38. 30**= 21 min.**Townsend's Self-dredging**as vertical net**11. 42. 00**11. 48. 15**100 fms. net.**= 6 min.**(Net wrecked)**but pieces saved.**Lost 8' Tanner**Frame and 2**35' shots as**summer weights.*

Pt. Loma Light. N 85° E., 9.0'

OK
11.01
11.01

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Course m. by N.

Overcast & hazy.

lt. breeze from

Bar. 30.09

Thm. at. 62.0

Smooth sea, gentle swell.

sea gulls

S. E.

swell.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100		4112 - 185		
200				
300				
400				
500		125 - 435		
600				
700				
800				
900				
1000				

REMARKS:

No. *E. 4359.* Date *15 Mar. 04**Sigsbee* Machine. Reel.Turns *89* Cor. + *9* Depth *98 fms.*Shot or lead *36 lb*Bottom *gy S. br. Sp.*Bottom temperature *49.*No. of thermometer *98242* Cor.

Corrected temperature

Air *59* Surface *60* Drift

Trawl or dredge.

Am. SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>11.42.15</i>	<i>46.10</i>	<i>0</i>		
<i>43.15</i>	<i>45.15</i>	<i>82</i>		
		<i>100</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

OK
JTCB.
✓

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	89			
50	92			
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

W.S.W. from Point Lanes

No. Dr 4360

Date Mar. 15, '04

Tanner

Machine.

Reel.

Turns 106 Cor. + 2 Depth 108 fms

Shot or lead 26 lbs 95 "

Bottom R 94 "

Bottom temperature 92 "

No. of thermometer not Cor.

Corrected temperature

Air 68° Surface 60° Drift (N 86° W) 4/10'

Trawl or dredge 8 Tangles & Mudbag

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1. 05.00 1. 08.10

1. 06.00 1. 06.00

1. 14.00 1. 17.00

1. 15.00 1. 15.00

93 + 2 = 95 fms

fuzzy S + R

1. 24.00 1. 27.20

1. 25.00 1. 25.40

92 + 2 = 94 fms

fuzzy S + R

1. 34.00 1. 37.20

1. 35.30 1. 35.30

90 + 1 = 92 fms

fuzzy S

End of Dr. 4360

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

1. 06.00 1. 22.40

1. 10.00 1. 19.40

1. 12.00 1. 19.00

7 m.

one side of mudbag

adrift

Open vertical

Large Dipnet

out at 1.30 - 100 fms

up at 1.33

Pt. Loma Light, N 86° 30' E., 9 ⁴/₁₀'

	2500	
Bar. 30.08", Therm. 66°	2600	
W. cast, pleasant clearing	2700	
Light S. E. breeze 2	2800	
Smooth Sea	2900	
Swath S. W. from 1600 N. W.	3000	
	3100	
Humptons seagulls in attendance	3200	
No other life in sight	3300	
1640	3400	
Sinker	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

2100

No. *Dr 4361* Date *Mar 15-04*

Tanner Machine. Reel.

Turns *95* Cor. + *2* Depth *97 fms*

Shot or lead *26 lbs* *91 "*

Bottom *fine gy S* *93 "*

Bottom temperature *97 "*

No. of thermometer *not used* Cor.

Corrected temperature

Air *64°* Surface *60°* Drift *(N 28° W 5/10')*

Trawl or dredge *8 Tangles & 2 mud bags as before*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1. 44. 00</i>	<i>1. 48. 00</i>	0	<i>1. 46. 00</i>	<i>2. 10. 30</i>
<i>1. 5. 30</i>	<i>1. 46. 00</i>	100	<i>1. 49. 00</i>	<i>1. 02. 00</i>
<i>1. 54. 00</i>	<i>58. 00</i>	150	<i>1. 51. 00</i>	<i>2. 06. 30</i>
<i>5 30</i>	<i>1. 56. 00</i>	200	<i>Time 15 1/2 "</i>	
<i>89 turns + 2 = 91 fms</i>		300	<i>Surf Tow N over at 1. 58. 00</i>	
<i>fine gy S, blk Sp</i>		400		
		500		
		600		
<i>2. 04. 10</i>		700	<i>in at 2. 05. 00</i>	
<i>2. 05. 30</i>	<i>2. 06. 00</i>	800	<i>time out 7 min.</i>	
<i>91 + 2 = 93 fms</i>		900	<i>Good Haul</i>	
<i>R gy S</i>		1000		
		1100		
<i>2. 14. 30</i>	<i>2. 18. 00</i>	1200		
<i>2. 15. 50</i>	<i>2. 16. 10</i>	1300		
<i>95 + 2 = 97 fms</i>		1400		
<i>R, blk S</i>		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

St. Loma Light, N 87° E., 9 1/10.

Course	N. W. 1/4	2500	(by off shore survey)
Bar to the		2600	
Remarks to the		2700	
Same as 4360		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

2111R

No. *E 4361* Date *Mar. 15th 04*

Tanner Machine. Reel.

Turns *99* Cor. + *2* Depth *101 fms*

~~Shot or~~ lead *26 lbs*

Bottom *bk. Sp. fuzzy S & R*

Bottom temperature

No. of thermometer *not used* Cor.

Corrected temperature

Air *64°* Surface *60°* Drift

~~Trawl or dredge~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2. 24. 00</i>	<i>2. 29. 00</i>	0		
<i>2. 25. 30</i>	<i>2. 27. 00</i>	100		
		200		
		300		
<i>Lead came up with a freshly bottomed edge</i>		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

OK
HCB.

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

SERIAL TEMPERATURES.

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

REMARKS:

No. Dr 4362 Date Mar. 15. 04

Tanner Machine. Reel.

Turns 98 Cor. + 2 Depth 100 fms.

Shot or lead 26 lbs 107 "

Bottom fuzzy S & bk Sp 159 "

Bottom temperature

No. of thermometer not used Cor.

Corrected temperature

Air 64° Surface 60° Drift (S 27° W) 18/10'

Trawl or dredge 8 Tangles with Mudbag as before

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
2. 34. 30	2. 38. 00	0	2. 36. 30	3. 02. 00
2. 36. 00	2. 36. 30	100	2. 39. 40	2. 58. 00
2. 44. 00	2. 48. 00	150	2. 41. 10	2. 56. 10
2. 45. 30	2. 46. 00	200	15 min -	✓
105 + 2 = 107 fms	107 fms	300	Surface	
fuzzy S & bk Sp		400	Tow Net over	
		500	at 2. 40. 20	
		600	in at 2. 56. 00	
2. 54. 00	58. 00	700	time out	
55. 30	55. 40	800	16 minutes	✓
157 + 2 = 159 fms	159 fms	900		
fuzzy S.		1000		
		1100		
End of Dr 4362		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

St. Loma Light, N 89° 30' E, 10²/₁₀'

Course N 4 E S. Parham Remarks Same as Dr. 4360	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

H.M.R.

No. *D 4363* Date *Mar. 15 '04*

Tanner Machine. Reel.

Turns *204* Cor. + *3* Depth *207 fms*

Shot or lead *26 lbs & 36 lbs* *273* "

Bottom *fuzzy S* *315* "

Bottom temperature at *315 fms = 42.8°* gm mud

No. of thermometer *98242* Cor.

Corrected temperature

Air *64°* Surface *60°* Drift *(S 55° W 8/10')*

Trawl or dredge *8' Tanner* with *160 lb sinker* & *2 mud bag*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>3.05.00</i>		0	<i>3.07.00</i>	<i>3.57.00</i>
<i>08.02</i>	<i>3.08.00</i>	100	<i>3.10.00</i>	<i>3.53.00</i>
		200	<i>3.13.00</i>	<i>3.50.00</i>
<i>3.20.00</i>	<i>26</i>	300	<i>3.16.30</i>	<i>3.47.15</i>
<i>23</i>	<i>28.30</i>	400	<i>3.23.00</i>	<i>3.45.00</i>
<i>243 fms</i>	<i>251 + 22</i>	500	<i>3.30.00</i>	<i>3.42.00</i>
<i>fuzzy S</i>		600	<i>26 min</i>	
		700		
		800		
<i>3.23.00</i>	<i>3.32.20</i>	900		
<i>27</i>	<i>3.30.00</i>	1000		
<i>290 + 25 = 315 fms</i>		1100		
<i>Therm 98242</i>		1200		
<i>Temp 42.8°</i>		1300		
<i>gm M</i>		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pt. Loma Light, N 81° E, 11 1/10'

<i>Course S 24 16 Bar and other remarks same as at D 4360</i>	2500	
	2600	(Mr. Mearns)
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

paid out at intervals

SERIAL TEMPERATURES.

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

REMARKS:

507
H.W.R.

No. _____

Date Mar. 15. '04

Sigsbee Machine. Reel.

Turns 304 Cor. + 26 Depth 330 fm

Shot or lead 36 lb

Bottom gn M + R

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 64° Surface 60° Drift

Trawl or dredge

SOUNDING WIRE		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.38	3.44.00	0		
3.40	3.41.20	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4112	185	2500	
384	159	2600	
3808	26	2700	
OK	384	2800	
RCB.	330	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *E 4363* Date *Mar. 15 '04**Sigsbee* Machine. Reel.Turns *320* Cor. + *28* Depth *348 fms.*Shot or lead *36 lbs*Bottom *gn m*

Bottom temperature

No. of thermometer *not used* Cor.

Corrected temperature

Air *64°* Surface *60°* Drift~~Trawl or dredge~~

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

pm 3. 47. 30 *pm* 3. 53. 00

3. 49. 00 3. 49 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

4112	185	2500	
320	157	2600	
3792	28	2700	
	320	2800	
OK H.C.	348	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No.

D. 4364.

Date

Mar. 16th 04

Tanner

Machine.

Reel.

Turns

99

Cor. +

2

Depth

101 fms.

Shot or lead

26 lb

Bottom

1-ky.

gy/s

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

63

Surface

59

Drift

CN 810'W

6/10'

Trawl or dredge

8' Tnr.

Mud bag.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.43.00	8.46.10	0	8.45.15	9.19.00
8.44.10	8.44.30	99	-	15.30
		100	8.50.00	9.14.00
		150		24 min.
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Tanner

Intermediate Sdgs.

9:00:00 - 118 fms

9:05:00 - 122 fms

Lge Vertical,
100 fms out.

9.12 - 9.19

= 7 min.

Pt. Loma Light, S 81° E, 5 7/10'

	2500	
	2600	
	2700	
	2800	
Course, West	2900	
Fair & pleasant	3000	horizon
Lt. breeze from	3100	West
Bar. 30.20	3200	
Therm. at 61.5	3300	
Smooth sea, gentle	3400	fresh
Seagulls.	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

507.
Franklin
 No. —

Date *16 Mar. 04*

Tanner Machine. Reel.

Turns *104* Cor. + *2* Depth *106 fms.*

Shot or lead *26 lb*

Bottom *fine gy S.*

Bottom temperature *50.0*

No. of thermometer *98242* Cor.

Corrected temperature

Air *62* Surface *59* Drift

~~Trawl or dredge~~

am. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.49.00</i>	<i>8.55.15</i>	0		
<i>8.50.30</i>	<i>8.53.30</i>	100		
		<i>104</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

OK
1700

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

SERIAL TEMPERATURES.

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

REMARKS:

No.

E. 4364.

Date

16 Mar. 04.

Tanner

Machine.

Reel.

Turns 127 Cor. +

2

Depth 129 fms

Shot or lead 26

Bottom

En. gy.

Bottom temperature

48°

No. of thermometer

98242

Cor.

Corrected temperature

Air

63

Surface

59

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9.11.50

9.19.00

0

12.40

16.20

100

9.13.00

9.16.00

127
200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

OK
JRC:BN
3

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

SERIAL TEMPERATURES.

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

REMARKS:

No.

Dr. 4365 Date 16 Mar 04

Tanner Machine.

Reel.

Turns 128 Cor. + 2

Depth 130 fms.

Shot or lead 26 lb

Bottom gn. M.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 63 Surface 57

Drift { west 8/10'

Trawl or dredge as before

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.24.00 9.28.40

25.00 27.00

9.25.20 9.26.00

0

100

200

225

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

9.27.00 10.01.20

30.00

9.24.00 55.15

9.54.20

= 240 min.

Intermediate Stages
Tan. Mch.

9.29.00 - 142 fms

44.00 - 149 fms.

50.00 - 159 fms.

Vertical, Age.

160 fms. down:

9.54. - 9.52

= 4 min.

Pt. Loma Light, S 81° E., 6 2/10'

OK H.C.D. Course - West Fair, pleasant, breeze Lt. breeze from West Dir. 30.15 Therm. at 60. South Sea	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *E. 4365.* Date *16 Mar. 04*

Sigsbee Machine. Reel.

Turns *144* Cor. + *14* Depth *158 fms*Shot or lead *36 lb*Bottom *gn. M.*Bottom temperature *47.0*No. of thermometer *98242* Cor.

Corrected temperature

Air *71* Surface *59* Drift

Trawl or dredge

am SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.59.45 *10.04.20**57.35* *03.46**10.00.10* *10.03.16*

0

100

~~144~~~~200~~

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

4112	185	2500
144	171	2600
3968	14	2700
OK	144	2800
J.C.D.	158	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

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

REMARKS:

No. 154366 Date 16 Mar. 04
Sigsbee Machine. Reel.
 Turns Cor. + Depth 176 fms.
 Shot or lead
 Bottom gn M.
 Bottom temperature
 No. of thermometer Cor.
 Corrected temperature
 Air 71 Surface 57 Drift (N 84° W 8) 10'
 Trawl or dredge as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Sigsbee</i>				
<i>Intermediate</i>		0	10.06.30	10.41.20
<i>Stop:</i>		100	09.15	
10.10.00 - 176 fms		200	12.30	
10.20.00 - 183		250	10.14.20	
10.25.00 - 181		300	22.10	10.34.30
		375		
		400		
		500	= 20	min.
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lge Vertical,
 50 fms down:
 10.35 - 10.42
 = 7 min

Pt. Loma Light, S 82° E., 7.0'

OK
1000

	2500	
	2600	
	2700	
Coarse, west	2800	
Fair, pleasant, misty horizon	2900	
Lt. breeze from west	3000	
Bar. 30.15	3100	
Therm. at 62.2	3200	
gentle breeze, smooth sea.	3300	
Pearls.	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

5000
(Faint handwritten notes)

No. *E 4366.* Date *16 Mar 04*

Sigsbee Machine. Reel.

Turns *166* Cor. + *15* Depth *181 fms.*

Shot or lead *36 lb*

Bottom *gy. sh.*

Bottom temperature *46.00*

No. of thermometer *98242* Cor.

Corrected temperature

Air *71* Surface *59* Drift

Trawl or dredge

Am. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.24.45</i>	<i>10.40.50</i>	0		
<i>35.40</i>	<i>40.00</i>	100		
<i>10.36.20</i>	<i>10.39.20</i>	<i>166</i> 200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4112	185	2500	
166	170	2600	
3946	15	2700	
	166	2800	
	181	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No.

Dr. 4367. Date 16 Mar. 04

Machine.

Reel.

201 fms

Turns

Cor. +

Depth

181 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

(West)
7 10'

Trawl or dredge

as before

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

Single

10.51 - 201 fms

11.07 - 214

11.14 - 214

11.07 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

11.14 - 214

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

10.47.00 11.45.00

50.00 21.30

52.55 18.45

10.55.50 11.15.30

= 19 min

Lge. Vertical Net,

11.47 -

Pt. Loma Light, S 82° 30' E, 7⁸/₁₀

~~OK~~
~~500~~
~~500~~

Course: West.

Fair, morning, heavy breeze

Lt. breeze from West

Bar. 30.12

Therm. at 66

Gentle small
puffs

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

No. *E. 4367* Date *16 Mar 04*
Sigsbee Machine. Reel.
 Turns *197* Cor. + *18* Depth *215 fms*
 Shot or lead *36 lb*
 Bottom *gn. M.*
 Bottom temperature *45.*
 No. of thermometer *78242* Cor.
 Corrected temperature
 Air *76* Surface *60* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.18.20</i>	<i>11.24.55</i>	0		
<i>19.00</i>	<i>23.55</i>	100		
<i>11.20.00</i>	<i>11.22.00</i>	127		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4112	185	2500	
197	167	2600	
39152	18	2700	
OK	197	2800	
100	215	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr. 4368* Date *16 Mar. 04*Machine. *Reel.*Turns Cor. + Depth *240 fms.*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

43°

Surface

59°

Drift

1.0'

Trawl or dredge

8' Tanner

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

Lat. Sags.
11.25. - 240 fms.
~~*11.42. - 240 fms.*~~
~~*11.50. - 240 fms.*~~

7.9. Ship moving

450 fathoms
not used
(Dredge)

0

100

200

300

320

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

11.29.30 12.06.30

32.00 12.03.30

- 12.01.00

37.30 11.57.50

11.58.00 11.57.00

Time 19m

0 + Loma Light, S 83° E., 85/10'

OK
H.C.O.

Course - West by North
Fair, hazy horizon
Lt breeze from West
Bar. 30.12
Therm. at 68
Gentle small
seagulls

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

SERIAL TEMPERATURES.

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

REMARKS:

597.

No. *E 4368* Date *Mar. 16. 1904*

Sigsbee Machine. Reel.

Turns *220* Cor. + *20* Depth *240 fms*

~~Shot or lead~~ *36 lbs*

Bottom *gn M*

Bottom temperature *43.8°*

No. of thermometer *98242* Cor.

Corrected temperature

Air *73°* Surface *59°* Drift

~~Trawl or dredge~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.57.00</i>	<i>12.04.30</i>	0		
<i>58.20</i>	<i>12.03.00</i>	100		
<i>59.20</i>	<i>12.02.10</i>	200		
<i>12.59.30</i>	<i>12.02.30</i>	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4112	185	2500	
220	165	2600	
3892	20	2700	
65	220	2800	
4003	240	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. Dr 4369 Date Mar. 16, 1904

Sigsbee Machine. Reel.

Turns 239 Cor. + 21 Depth 260 fms

Shot or lead 36 lbs

Bottom gm M

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 66° Surface 60° Drift } N 81° W
1' 10'

Trawl or dredge 8' Tanner & Mendenhall with 10' Sinker

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1. 06. 00 1. 11. 30

1. 06. 50 1. 10. 30

1. 07. 50 1. 09. 30

0

1. 04. 15 1-56-

100

1. 06. 45

200

1. 09. 15

300

1. 12. 30 1. 40. 00

400

1. 15. 45 1. 36. 15

500

20' 2 min.

600

700

800

900

20. 35. 45

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

NO auxiliary
nets used
this time

St. Loma Light. S 82° E, 10.0'

	2500		
Course W. (Capt)	2600	4112	185
Bar 30.11"	2700	239	164
Therm 73	2800	3873	21
ABT 1-2	2900		239
Smith's Sound from W	3000		260
Fair & pleasant, hazy horizon	3100		
	3200		
Seagulls about	3300		
	3400		
	3500		
	3600		
no other rats	3700		
used	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

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

REMARKS:

No. *E 4369*Date *Mar. 16 '04**Sigsbee*

Machine.

Reel.

Turns *261* Cor. + *23*Depth *284 fms*Shot or lead *36 lb*Bottom *gy S & R*Bottom temperature *43°*No. of thermometer *98242* Cor.

Corrected temperature

Air *64°* Surface *59°* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*1. 42 00 1. 50. 10**1. 43 05 1. 49. 10**1. 44 10 1. 48. 10**1. 44 30 1. 47. 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

4112	185	2500	
261	162	2600	
3851	23	2700	
OK	261	2800	
110.02	284	2900	
3		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

2118

No. *H 4792*. Date *Mar 16, '04*

Tanner Machine. Reel.

Turns *195* Cor. + *3* Depth *198 fms*

Shot or lead *26 lb.*

Bottom *gy S.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *64°* Surface *59°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2.07.10</i>	<i>2.13.10</i>	0	<i>2.27.10</i>	
<i>2.07.50</i>	<i>2.10.10</i>	100		
<i>2.08.50</i>	<i>2.08.55</i>	200	<i>2.32</i>	
		300		
		400		
<i>2.15.00</i>	<i>179 fms</i>	500	<i>Hyd</i>	
		600	<i>gy. S. 4793</i>	
<i>2.28.00</i>	<i>110 "</i>	700	<i>Dr. 4390</i>	
<i>2.27.00</i>	<i>99 "</i>	800	<i>See next page</i>	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

N.B.

H. 4793 - 179 fms.

Pt. Loma Light. S 88° E, 10⁸/₁₀'

	2500	
	2600	
Course	2700	
Bar 30.10"	2800	
Therm at 69°	2900	
Fair pleasant	3000	
Gentle breeze W S W	3100	
" " " " " " " "	3200	
	3300	
Seagulls	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	41.12	185		
300				
400				
500				
600				
700				
800	Pt Loma Light. S 89° E, 10 ³ / ₁₀ '			
900				
1000				

REMARKS:

No. *Dr. 4370* Date *Mar. 16 1904*

Sigsbee Machine. Reel.

Turns *90* Cor. + *9* Depth *99 fms*

Shot or lead *36 lbs*

Bottom *gy S & R*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *64°* Surface *59°* Drift *S 89° W 4 10'*

Trawl or dredge *8 Tangles as before*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

2.20.00

2.22.00

2.24.00

2.26.00

2.28.00

2.30.00

2.32.00

2.34.00

2.36.00

2.38.00

2.40.00

2.42.00

2.44.00

2.46.00

2.48.00

2.50.00

2.52.00

2.54.00

2.56.00

2.58.00

3.00.00

3.02.00

3.04.00

3.06.00

3.08.00

3.10.00

3.12.00

3.14.00

3.16.00

3.18.00

3.20.00

3.22.00

3.24.00

0

100

150

200

250

300

350

400

450

500

550

600

650

700

750

800

850

900

950

1000

1050

1100

1150

1200

1250

1300

1350

1400

1450

1500

1550

1600

1650

1700

1750

1800

1850

1900

1950

2000

2050

2100

2150

2200

2250

2300

2350

2400

2450

2500

2550

2600

2650

2700

2750

2800

2850

2900

2950

3000

2.27.00

2.29.00

2.31.00

2.33.00

2.35.00

2.37.00

2.39.00

2.41.00

2.43.00

2.45.00

2.47.00

2.49.00

2.51.00

2.53.00

2.55.00

2.57.00

2.59.00

3.01.00

3.03.00

3.05.00

3.07.00

3.09.00

3.11.00

3.13.00

3.15.00

3.17.00

3.19.00

3.21.00

3.23.00

3.25.00

3.27.00

3.29.00

3.31.00

End of D. 4370

Pt Loma Light, N 88° E., 10.0'

Course W (East)

13th 30.10

Therm att 64°

Fair & pleasant

gentle breeze WSW

Small fish W

Seagulls about ship

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *D 4371* Date *Mar 16 1904*

Sigsbee Machine. Reel.

Turns *132* Cor. + *13* Depth *145 fms*

Shot or lead *36 lbs.*

Bottom

Bottom temperature

No. of thermometer *not used* Cor.

Corrected temperature

Air *64°* Surface *59°* Drift *4/10'*

Trawl or dredge *8 Tangles + Mudbag*

SOUNDING WIRE. <i>fms</i>		TURNS.	DREDGE ROPE. <i>fms</i>	
DOWN.	UP.		DOWN.	UP.
3.01.00	3.09.00	0	3.12.00	3.42.00
3.05.00	3.06.00	100	3.15.00	3.38.10
3.04.00	96 - 10 = 106	200	3.18.00	3.35.00
3.07.00	95 + 9 = 104	275	3.20.00	3.26.00
3.10.00	107 + 11 = 118	400		
3.12.00	132 + 13 = 145	<i>Dred 4371</i>		
3.15.30	142 + 13 = 155	600		
3.18.45	126 + 12 = 138	700		
3.22.00	109 - 11 = 120	800		
3.26.00	85 + 9 = 94	900		
3.28.00	80 + 10 = 90	1000		
3.30.00	80 + 10 = 90	1100		
3.31.50	79 + 8 = 89	1200		
33.	81 + 8 = 89	1300		
35.	79 + 8 = 87	1400		
37.	81 + 8 = 89	<i>end of D 4371</i>		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lost Mudbag.

Pt Loma Light, N 84° E, 9⁵/₁₀'

Course	S 20° (approx)	2500		
		2600		
Bar	30.10"	2700	4112	185
Therm	60°	2800	132	172
Fair pleasant		2900	2980	13
rest as before		3000		132
		3100		145
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
at 3.25 hours in to		3800		
200 fms		3900		
at 3.35 hours in from 200 fms		4000		

SERIAL TEMPERATURES.

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

REMARKS:

No. *4372*, Date *March 16, 04*
Sigsbee Machine. Reel.

Turns *79* Cor. + *8* Depth *87 fms*

Shot or lead *36 lb*

Bottom *gy. S. R.*

Bottom temperature —

No. of thermometer —

Cor. —

Corrected temperature —

Air *64°* Surface *59*

Drift *CS 20 W*
1 17/10'

Trawl or dredge *3 Tangles & 2 mussels*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.48.00 = 77 + 8 = 85		0	<i>3.49.30</i>	<i>4.11.10</i>
3.50.00 = 79 + 8 = 87		100	<i>3.53.00</i>	<i>4.09.00</i>
3.52.15 = 81		200	<i>= 16 min</i>	
54.30 = 82		300		
57.00 = 83		400		
57.00 = 84		500		
4.01.30 = 85		600		
4.03.50 = 86		700		
4.05.50 = 87		800		
4-08.10 = 102 fms		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lost one
Tangle Swale

St. Loma Light, N 82°30' E, 98 1/10'

4112	185	2500	
79	177	2600	
4033	8	2700	
OK	79	2800	
100	87	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

507

2-571

Pt. Loma Light. S 95° E, 9 ³/₁₀.

4172	185	2500
206	166	2600
3906	19	2700
	206	2800
	225	2900
		3000
		3100
		3200
		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

Course:

Fair, hazy

Clear to Pt. Loma

Bar.

Therm. at

Pozzullo

Record at
Sag. Mch.

No record of weather
etc.

SERIAL TEMPERATURES.

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

REMARKS:

No. *D. 4374.* Date *17 Mar. 04.**Sigsbee* Machine. Reel.Turns *85* Cor. + *8* Depth *93 fms.*Shot or lead *36 lb*Bottom *crs. S. Sh. R.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *59* Surface *59* Drift *S 80° W. 1/10'*Trawl or dredge *8 Tangles*

Am. SOUNDING WIRE.

DOWN.	UP.
<i>9.51.30</i>	<i>93 fms.</i>
<i>9.55.00</i>	<i>93 1/2</i>
<i>9.56.30</i>	<i>93 "</i>
<i>9.59.00</i>	<i>91 "</i>
<i>10.01.15</i>	<i>90 "</i>
<i>03.30</i>	<i>89 "</i>
<i>05.50</i>	<i>88 "</i>
<i>08.00</i>	<i>88 "</i>
<i>10.00</i>	<i>88 "</i>
<i>12.00</i>	<i>88 "</i>
<i>15.00</i>	<i>88 "</i>

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

Am. DREDGE ROPE.

DOWN.	UP.
<i>9.52.30</i>	<i>10.16.30</i>
<i>9.56.30</i>	<i>10.11.00</i>
<i>= 15 min.</i>	

*ans Dr. 4374.**2 f/and lines, prop:**3 rock and**10⁰⁰ - 10¹⁵ am**15 min -*

St. Loma Light, N 85° E., 9 8/10'

OK
JCB.
7

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr. 4375* Date *17 Mar. 04**Sigsbee* Machine. Reel.Turns *80* Cor. + *8* Depth *88 fms.*Shot or lead *36 lb*Bottom *crs S sh R*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *59* Surface *59* Drift *(S. 70° W., 8/10')*Trawl or dredge *8 Tangles.*

am SOUNDING WIRE.

am DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>10.17.00</i>	<i>88 fms.</i>	<i>0</i>	<i>10.20.00</i>	<i>46.30</i>
<i>19.00</i>	<i>87 "</i>	<i>100</i>		
<i>21.00</i>	<i>87 "</i>	<i>150</i>	<i>26.00</i>	<i>10.41.00</i>
<i>23.30</i>	<i>87 "</i>	<i>200</i>		<i>= 15 min.</i>
<i>26.00</i>	<i>87 "</i>	<i>300</i>		
<i>28.00</i>	<i>87 "</i>	<i>400</i>		
<i>30.00</i>	<i>86 "</i>	<i>500</i>		
<i>32.00</i>	<i>86 "</i>	<i>600</i>		
<i>35.45</i>	<i>86 "</i>	<i>700</i>		
<i>38.00</i>	<i>86 "</i>	<i>800</i>		
<i>40.00</i>	<i>86 "</i>	<i>900</i>		
<i>42.40</i>	<i>86 "</i>	<i>1000</i>		
<i>45.00</i>	<i>86 "</i>	<i>1100</i>		
		<i>1200</i>	<i>and Dr. 4275.</i>	
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
<i>10' 20" 10</i>	<i>45 "</i>	<i>1900</i>		
<i>15 "</i>	<i>m "</i>	<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

*2 Hauling, poops:**10' 20" 10 45 "*
15 " m "

St Loma Light, N 81° E, 10' 10'

OK
JCB
-2

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr. 4376* Date *17 Mar. 04.*

Sigsbee Machine. Reel.

Turns *80* Cor. + *8* Depth *93 fms.*Shot or lead *36 lb*Bottom *gy S s s R*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *61* Surface *60* Drift *(S 77° W 5) 10'*Trawl or dredge *8 Tangles.*

Am. SOUNDING WIRE.

DOWN.

UP.

TURNS.

Am. DREDGE ROPE.

DOWN.

UP.

~~10.47.00~~ ~~88 fms.~~

0

~~10.50.00~~ ~~11.06.30~~~~52.30~~ ~~90 fms.~~

100

~~10.55.00~~ ~~11.02.10~~~~52.30~~ ~~93 fms.~~

150

~~= 7 min.~~~~53.15~~ ~~93 fms.~~

200

~~57.40~~ ~~98 fms.~~

300

~~11.00.20~~ ~~132 fms.~~

400

~~04.15~~ ~~164 fms.~~

500

~~08.00~~ ~~180 fms.~~

600

~~08.00~~ ~~180 fms.~~

700

~~and Dr. 4376~~

Soundings

continued

on next

page

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Pt. Loma Light, N 86° 30' E., 10 ³/₁₀'

OK
H. J. B.
4

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

No. *H. 4794*. Date *17 Mar. 04*

Sigsbee Machine. Reel.

Turns *93* Cor. + *9* Depth *102 fms* -Shot or lead *36 lb*Bottom *R gy S at 12.00 - 135 fms*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *62* Surface *60* Drift~~Trawl or dredge 8' Trawl, Sigsbee, 8' and 8'.~~

Am. SOUNDING WIRE.

TURNS.

Am. DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

10.16.00 *311 fms* *0**11.50.00* *92 fms* *100**32.00* *90 fms* *200**34.30* *90 "* *300**37.00* *89 "* *400**39.00* *89 "* *500**41.00* *88 "* *600**43.30* *88 "* *700**45.00* *88 "* *800**47.00* *87 "* *900**49.00* *87 "* *1000**50.30* *88 "* *1100**52.50* *88 "* *1200**54.50* *88 "* *1300**56.50* *83 "* *1400**58.40* *81* *89 "* *1500**PM 00.30* *82* *90 "* *1600**02.30* *87* *95 "* *1700**04.40* *93* *102 "* *1800**06.50* *123* *135 "* *1900*

2000

2100

2200

2300

2400

Hydr: 4794
*R 8 gy S**end of morning work**trial sounding*
12.50 pm 85 fms
*R**ahead at 1.10 pm*

Pt. Loma Light, N 76° E., 8⁵/₁₀'

OK
H. C. O. R.

see below

~~1000~~

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

OK H. C. O. R.

Hydrog 4794

102 fms

REMARKS:

No.

H. 4795

Date

Mar. 17 '04

Sigsbee

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

36 lbs

Bottom

gy SR

Bottom temperature

No. of thermometer

not used

Cor.

Corrected temperature

Air

59°

Surface

60°

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1. 14. 00 92 ft 0

1. 16. 30 94 " 100

1-19. 00 88+9=97 " 200

21. 30 94 " 300

23. 30 95 " 400

26. 95 " 500

29. 94 " 600

31. 92 " 700

33. 94 " 800

35. 95 " 900

37. 45 97 " 1000

40. 00 99 " 1100

42. 25 101 " 1200

44. 30 101 " 1300

1-47. 00 94+9=103 " 1400

49. 15 103 " 1500

51. 30 103 " 1600

54. 102 " 1700

56 103 " 1800

58 98 " 1900

2. 00. 30 98 " 2000

2. 30 91 100 " 2100

5. 00 96 105 " 2200

7. 30 101 111 " 2300

10. 114 " 2400

Hy 4795

Hy 4796

winding aft
" up & down

St. Loma Light, N 67° E, 9 8/10'		
do N 63° E, 9 9/10'		
	2500	
	2600	
Bar 30.23"	2700	at 12.30 P.M.
Thermatt 35	2800	
Fair & pleasant,	2900	hazy in shore
Light airs from N.W.	3000	
Smooth Sea	3100	
	3200	
No Seagulls	3300	
No other marine life in sight	3400	
	3500	
2.00 pm weather becoming overcast	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

607
 No. Dr 4377 Date Mar. 17 '04
 Sigsbee Machine. Reel.

Turns 116 Cor. + 11 Depth 127 fms

Shot or lead 36 lbs

Bottom gn M & S

Bottom temperature

No. of thermometer not used Cor.

Corrected temperature

Air 59 Surface 60 Drift

Trawl or dredge 8' Tanner with 3 1/2 lb sinker 3 1/2 lb lead

554° N
 9/10'

SOUNDING WIRE. fms		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2. 15. 00	2. 18. 00	0	2. 18. 00	2. 46. -
2. 16. 00	2. 16. 00	100		
		200	2. 20. 00	
2. 20. 00	145 fms	225	2. 24. 00	
gn M & S		275	2. 34. 00	2. 40
2. 30. -		500	20 m	
195 + 18 =	2. 1. 3 fms	600	Surface Trawl Net	
gy S		700	over at 2. 28. 00	
		800	in at 2. 40.	
		900	Time 12 m	
		1000		
		1100	Vertical Net	
		1200	down to 100 fms	
		1300	at 2. 42	
		1400	up at 2. 46. 30	
		1500		
		1600		
		1700	good haul	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

St. Loma Light, N 57° E., 10²/₁₀'

	2500	
Course W	(Cap)	
	2600	
Bur 30.20	2700	
Therm 59	2800	
Pleasant cool & dandy	2900	
West force 3	3000	
Seas smooth	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
Paid out at intervals from 200 fms		
at 2. 22 to 22.5 fms	3700	
at 2. 32 rec'd to 27.5 fms	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *E 4377* Date *Mar. 17 '04**Sigsbee* Machine. Reel.Turns *275* Cor. + *24* Depth *299 fm*

Shot or lead

Bottom *gy. m. s.*

Bottom temperature

No. of thermometer *not used* Cor.

Corrected temperature

Air *59°* Surface *60°* DriftTrawl or dredge

SOUNDING WIRE <i>fm</i>		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2.41</i>	<i>2.47.00</i>	0		
<i>2.42.30</i>	<i>2.43.00</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		

4112	185	2500	
275	161	2600	
3837	24	2700	
O/C	275	2800	
5000	299	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr 4378* Date *Mar. 17 '04**Sigsbee* Machine. Reel.Turns *346* Cor. + *30* Depth *376 fms*Shot or lead *36 lbs*Bottom *gn m & s*

Bottom temperature

No. of thermometer *not used* Cor.

Corrected temperature

Air *61°* Surface *60°* Drift *{ S 84° W*
*8/10'*Trawl or dredge *8' sigsbee with mudbag*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>2.51.00</i>	<i>2.59.00</i>	0	<i>2.54.00</i>	<i>4.11.30</i>
<i>2.52.00</i>	<i>57.00</i>	100	<i>2.57.00</i>	<i>4.08.00</i>
<i>2.53.00</i>	<i>56.00</i>	200	<i>3.00.00</i>	<i>4.04.50</i>
<i>2.54.00</i>	<i>2.55.00</i>	300	<i>3.02.50</i>	<i>4.01.30</i>
		350	<i>3.04.30</i>	<i>3.58.00</i>
		400	<i>3.08.00</i>	<i>3.54.00</i>
		450	<i>3.11.30</i>	<i>3.50.00</i>
<i>3.08.00</i>	<i>3.18.30</i>	600	<i>3.29.00</i>	<i>3.42.00</i>
<i>3.13.00</i>	<i>3.13.00</i>	700	<i>3.32.00</i>	<i>3.42.00</i>
<i>422 + 36 = 458 fms</i>		800		
<i>gn m</i>		900		
		1000		
		1100		
<i>3.19.00</i>	<i>3.30.00</i>	1200		
<i>3.22.00</i>	<i>3.25.00</i>	1300		
<i>510 + 43 = 553 fms</i>		1400		
<i>gn m</i>		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pt. Loma Light, N 57° E, 11.0'

	2500		
Course W	2600	4112	185
	2700	346	155
Bar 30.19 "	2800	3766	30
Therm at 610	2900		346
Weather pleasant, cool & calm	3000		376
Wind West, force 2	3100		
Sea smooth	3200		
	3300		
	3400		
	3500		
	3600		
at 3/26 paid out to 800 fms	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

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

REMARKS:

No. *E 4378* Date *Mar. 17th 04*

Sigsbee Machine. Reel.

Turns *548* Cor. + *46* Depth *594 fms*

Shot or lead *36 lbs*

Bottom *(Lead lost) not ascertained*

Bottom temperature

No. of thermometer *not used* Cor.

Corrected temperature

Air *61°* Surface *60°* Drift

Trawl or dredge

SOUNDING WIRE. <i>fms</i>		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3. 35.30</i>	<i>3.46.30</i>	0		
<i>3. 36.30</i>	<i>44</i>	100		
<i>3. 37.30</i>	<i>43</i>	200		
<i>3. 38.15</i>	<i>42</i>	300		
<i>3. 39.10</i>	<i>41</i>	400		
<i>3 40.00</i>	<i>3.40.30</i>	500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lost 36 lb Lead
at 1100 Stray line
1 1/2 min. in recovering lead
lost no more

next Hy 4797

4112
548
3564

185
139
46
548
594

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

OK
HCB.

SERIAL TEMPERATURES.

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

REMARKS:

2

P.L. = 31.8

No. Dr. 4379 Date 18 Mar. 04.

Sigsbee Machine. Reel.

Turns 236 Cor. + 21 Depth 257 fms.

Shot or lead 35

Bottom gy S. bn Sp. rky.

Bottom temperature

No. of thermometer

Corrected temperature

Air 62 Surface 57 Drift 5/10'

Trawl or dredge 8' Trawl of Muddy, Sinter, 2 Gal. Sht.

Am. SOUNDING WIRE.

Am. DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
9.04.20	9.09.30	0	9.09.30	9.48.20
05.00	05.30	100	12.30	
06.00	07.30	200	15.40	
9.06.30	7.07.00	300		
		400	20.00	35.45
Sigsbee / Intermed.		500	9.23.20	9.31.00
Sigsbee:		600	= 8 min.	
9.22.00	020 fms.	700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Not slightly torn.

S. Pt., North Coronado Id., N 52° 30' E, 2 1/10'

4112	185	2500
236	164	2600
3876	21	2700
Course: West.		2800
Overcast and heavy fog later part.		2900
Lt breeze from N.W.		3000
Bar. 30.22		3100
Therm. at. 60		3200
a few gulls around		3300
		3400
		3500
		3600
		3700
		3800
		3900
		4000

SERIAL TEMPERATURES.

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

REMARKS:

No. *E. 4379.* Date *18 Mar. 04.**Sigsbee* Machine. Reel.Turns *376* Cor. + *32* Depth *408 fms.*~~Shot or~~ lead *35 lb*Bottom *gn. M. rky.*Bottom temperature *41.1*No. of thermometer *98242.* Cor.

Corrected temperature

Air *62* Surface *59* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.36.00</i>	<i>9.46.15</i>	0		
<i>37.00</i>	<i>45.20</i>	100		
<i>37.50</i>	<i>44.30</i>	200		
<i>38.50</i>	<i>43.40</i>	300		
<i>9.39.50</i>	<i>9.42.50</i>	376 400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4112	185	2500	
376	153	2600	
3736	32	2700	
OK	376	2800	
1000	408	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr. 4380*, Date *18 Mar. 1904*.

Sigsbee Machine. Reel.

Turns *489* Cor. + *41* Depth *530 fms.*Shot or lead *35 lb*Bottom *54 S. R.*

Bottom temperature —

No. of thermometer —

Cor. —

Corrected temperature —

Air *66°* Surface *59°* Drift *(S 73° W 15' 10")*Trawl or dredge *8' Tm., short net, 2 glass balls, Sinker,*

Am. SOUNDING WIRE.

Am. DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
10.02.00	10.13.15	0	10.04.00	11. 18.20
04.00	12.25	100	—	15.00
04.45	11.35	200	09.40	11.30
05.45	10.45	300	—	08.30
06.50	09.50	400	—	11.05.30
10.07.50	10.08.50	489	16.00	—
		500	18.30	—
		600	—	—
		700	—	—
		800	—	—
		850	10.26.00	10.48.30
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Intermitt. Sigs.

10.31.00 - 619 fms.

10.48.20 638

moving too

fast for accuracy

Townsends self.

closing and then

Vertical net on

same line; 200

fms. down. Closed

Townsends when

landed up 100 fms.

down

up

10-50-00

11-4-20 a.

Vertical

100 fms to surf.

down into

200 fms to 100 fms.

S. Pt., North Coronado Is., N 59° E., 2 5/10'

4112	185	2500	
489	144	2600	
3623	41	2700	
8K 405	489	2800	
	530	2900	
Course - West		3000	
Overcast; haze		3100	for light from
Let breeze from		3200	N. W. out of
Bar. 30.22		3300	wind. Shows
Therm. 61		3400	bottom part;
No wind like in right.		3500	for water; 1
		3600	Island.
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *E. 4380*. Date *18 Mar. 04**Sigsbee* Machine. Reel.Turns *570* Cor. + *48* Depth *618 fms.*Shot or lead *35 lb*Bottom *gy. M.*Bottom temperature *38.9*No. of thermometer *98242* Cor.

Corrected temperature

Air *73* Surface *60* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.50.05</i>	<i>11.04.10</i>	0		
<i>51.00</i>	<i>03.15</i>	100		
<i>51.55</i>	<i>02.20</i>	200		
<i>52.45</i>	<i>01.30</i>	300		
<i>53.45</i>	<i>11.00.20</i>	400		
<i>54.45</i>	<i>59.30</i>	500		
<i>10.55.30</i>	<i>10.58.20</i>	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

4112	185	2500	
570	137	2600	
3542	48	2700	
570	570	2800	
619	619	2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

507.
Arctic

No. *D. 4381.* Date *18 Mar. 1904*

Machine. Reel.

Turns Cor. + Depth *618 fms.*

Shot or lead *35 lb* (*E. 4380 is initial sdy for this station*)

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature *56.40 W*

Air *73* Surface *60* Drift *14/10'*

Trawl or dredge *8' Tr. as before.*

am. SOUNDING WIRE.		TURNS.	am. DREDGE ROPE. <i>See</i>	
DOWN.	UP.		DOWN.	UP.
<i>Intermediate</i>		0	<i>11.26.00</i>	<i>1. 07. 00</i>
<i>Sdy, Sigsbee:</i>		100	<i>29.00</i>	<i>1. 03. 00</i>
<i>11.35.00 - 654 fms.</i>		200	<i>31.45</i>	<i>1. 00 00</i>
<i>47.00</i>		300	<i>34.30</i>	<i>12. 57. 00</i>
<i>Sigsbee Sigsbee - 35 lb</i>		400	<i>36.40</i>	<i>12. 54. 00</i>
<i>11.58.00 12.</i>		500	<i>39.00</i>	<i>12. 50. 30</i>
<i>639 + 53 = 692 fms.</i>		600	<i>41.10</i>	<i>12. 46. 00</i>
<i>12.15.00 = 667 "</i>		700	<i>43.15</i>	<i>12. 41. 30</i>
<i>End of 4381 -</i>		800	<i>45.15</i>	<i>12. 37. 00</i>
<i>Sigsbee Sigsbee</i>		850	<i>11. 46. 30</i>	<i>12. 34. 00</i>
<i>11.30.00 - 11.48.30</i>		900		
<i>= 18 1/2 min.</i>		1000	<i>time but 47 1/2 "</i>	
<i>11.52 over again</i>		1100		
<i>in at 12.35</i>		1200	<i>Heavy, but even</i>	
<i>= 43 min.</i>		1300	<i>strain - hove in</i>	
		1400	<i>slowly (ordur/Capt)</i>	
		1500		
		1600	<i>Small haul</i>	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

S. Pt., North Coronado Id., N 64° E., 4.0'

OK	2500	
	2600	
1000. Course - West	2700	
Clear and cloudy	2800	for bank over the
St. breeze from	2900	N.W.
Bar. 30.18	3000	
Therm. 63	3100	
1 Bk gull	3200	
Smith's Pen.	3300	small.
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

No. *Dr 4382* Date *Mar. 18 '04**Sigsbee* Machine. Reel.Turns *605* Cor. + *51* Depth *656 fms*Shot or lead *35 lbs*Bottom *gn M*Bottom temperature *see E. Same day this page*No. of thermometer *not used* Cor.

Corrected temperature

Air *74°* Surface *61°* Drift *(569° N) 1 3/10°*Trawl or dredge *Blake 10' with 1' tail weight Sinkers and**Pure* SOUNDING WIRE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>1. 10.00</i>	<i>1. 21.00</i>	<i>0</i>	<i>1. 15.00</i>	<i>27</i>
<i>1. 11.00</i>	<i>1. 19.50</i>	<i>100</i>	<i>1. 18.00</i>	<i>27.30</i>
<i>1. 11.50</i>	<i>1. 19.00</i>	<i>200</i>	<i>21.00</i>	<i>21.00</i>
<i>1. 12.50</i>	<i>1. 18.00</i>	<i>300</i>	<i>23.30</i>	<i>18.20</i>
<i>1. 13.00</i>	<i>1. 17.00</i>	<i>400</i>	<i>25.30</i>	<i>14.45</i>
<i>1. 14.00</i>	<i>1. 16.00</i>	<i>500</i>	<i>28.00</i>	<i>11.30</i>
<i>1. 15.00</i>	<i>1. 15.10</i>	<i>600</i>	<i>30.30</i>	<i>7.30</i>
<i>Intermediate Sounding</i>		<i>700</i>	<i>32.30</i>	<i>2.04.15</i>
<i>1. 32.00</i>		<i>800</i>	<i>34.40</i>	<i>2.00.30</i>
<i>593 + 49 = 642 fms</i>		<i>900</i>	<i>1. 36.40</i>	<i>1.56.40</i>
<i>1. 47.00</i>		<i>1000</i>	<i>time</i>	<i>2.00.00</i>
<i>610 + 51 = 661 fms</i>		<i>1100</i>		
<i>2. 02.00</i>		<i>1200</i>		
<i>615 + 51 = 666 fms</i>		<i>1300</i>		
<i>Temperature 2.5°</i>		<i>1400</i>		
<i>gn M</i>		<i>1500</i>		
<i>Therm. 98.2 x 2</i>		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
<i>End of Dr 4382</i>		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

S. Pt., North Corrado Is., N 64° E, 5 1/10'

Course W (Capt)

Bar 30.14"

Therm at 62° (Fahrenheit)

W. Weather same

all else same as 4381.

no animal life in sight

4112	185
605	134
3507	51
	605
	656

uncomplicated steam

9 - 30' 3

Surface Tow Net
over at 1.30
in at 1.56
time out 26 min

Townsend Self-acting Net
down to 2.00 fms at 1.58.
Began hauling in at 2.06
hove in to 100 fms, down messenger at (2.13)
and hauled in Townsend at 2.15
onboard 2.20 pm

Sent down large Plankton on same line
at 100 fms above the Townsend
Began hauling in at 2.06
Plankton onboard at 2.12