

En 3382 - 3597

Agd 3486 - 3491

James Raney -

Mrs. Sarah A. Raney,
126 Scott St. San Francisco,
Cal.

next to
3562

next 3489 Hyd
" 3592 Dr

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:

F. K. H.
 57° 01' N. 136° 46' W

No. 3486 Reel. Date Sept. 17, 1893.
 Sigsbee Machine. #2 Reel. Traw

Turns/194 Cor. + 76 Depth 1270

Shot or lead 60 lbs.

Bottom M. M.

Bottom temperature 35.0

No. of thermometer 63919 Cor. +0.1

Corrected temperature 35.1

Air 58° Surface 57° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5-17-05	41-20	0	1183	159
18-00	40-15	100	1194	177
18-50	39-35	200	2989	182
19-35	38-50	300		1194
20-25	38-00	400		1276
21-15	37-10	500		
22-10	36-10	600		
23-05	35-10	700		
24-10	34-10	800		
25-10	33-10	900		
26-15	32-10	1000		
27-25	31-15	1100		
28-25	5-30-15	1194 1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Made 18 min while pulling in

P. Log. 90.4

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		4183	159.	
50		1194	83	
100		2989	76	
200			1194	
300			1270	
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

JRH
 59° 00' N. 136° 12' 30" W

No. 3487 Hyd Date Sept 17, 1893.
 Sigbee Machine #2 Reel. Navy

Turns 710 Cor. + 46 Depth 756 fms

Shot or lead 35 lbs.

Bottom gn. M. S.

Bottom temperature 39.0

No. of thermometer 62358 Cor. -0.1

Corrected temperature 38.9

Air 55° Surface 53° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7-37-40	32-20	0	4183	159
38-33	31-10	100	710	113
39-25	30-20	200	3473	46
40-17	29-30	300		710
41-15	28-40	400		756
42-10	27-50	500		
43-15	27-00	600		
44-20	26-05	700		
44-25	7-46-00	710		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Made 5/10 mi. while reeling in

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		4183	159	
50		710	113	
100		3473	46	
200			710	
300			756	
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Lat. $56^{\circ}58'46''N$. Long. $135^{\circ}47'30''W$.

No. 3488 Hyd Date Sept 17/93

Tanner Machine. Reel.

Turns 53 Cor. + 2 Depth 55 fms

Shot or lead 35 lb

Bottom Rky.

Bottom temperature 45.0

No. of thermometer 63919 Cor. +

Corrected temperature 45.0

Air 55° Surface 54° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.42.45	43.58	0		
43.22	9.43.23	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
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		1600		
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		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Log = 20.5

2500
 2600
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 3100
 3200
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 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300		545		
400		53		
500		1072		
600				
700				
800				
900				
1000				

REMARKS:

San Diego Bay

No. 3562 15th Date Mar 19th 1894.

Haul Machine. Reel.

Turns Cor. + Depth 7 fms

Shot or lead 14 lbs

Bottom S. bk shs.

Bottom temperature } none
No. of thermometer } taken Cor.

Corrected temperature

Air 62 Surface 58 Drift 200 yds

Trawl or dredge beam 15 minutes

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9.25	9.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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		1400		
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 4000

SERIAL TEMPERATURES.

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

REMARKS:

Numerous small shells, one worn bottom specimen saved, consisting of very small shells + sand, one sand dollar.

San Diego Bay.

No. 3563 N. Date Mar 19-1894,

Machine. Reel.

Turns Cor. + Depth $6\frac{1}{2}$

Shot or lead 14 lb. Hand.

Bottom fm S. brk sh

Bottom temperature } none
No. of thermometer } taken. Cor.

Corrected temperature

Air 64 Surface 56 Drift 200 yds

~~Trawl or dredge~~ bot.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.25	10.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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SERIAL TEMPERATURES.

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

REMARKS:

Many small shells, worm tubes, bottom specimen sand, two small shrimp,

San Diego Bay

No. 35645¹ - Date Mar 19th 1894.

Machine. Reel.

Turns Cor. + Depth 5 fms.

Shot or lead 14 lb Hand.

Bottom fine S.M. bk sh.

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature

Air 46 Surface 58 Drift 200 yds

Trawl or dredge beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	2 ⁴⁵ 10.50	2 ⁴⁵ 11.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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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:

Many small shells + worm tubes, bottom specimen saved

507.

San Diego Bay

No. 35655 - Date Mar 19th 1894,

Machine. Reel.

Turns Cor. + Depth 4 1/2 fms

~~Shot~~ or lead 14 lb. Hand,

Bottom fm S. M, bk shs

Bottom temperature

No. of thermometer } none
taken. Cor.

Corrected temperature

Air 64 Surface 58 Drift 200 yds

~~Trawl or~~ dredge boat.

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
a.m.	a.m.	0	11.28	11.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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SERIAL TEMPERATURES.

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

REMARKS:

Bottom haul saved in one bottle, found many small shells & sand,

San Diego Bay

No. 3566 D- Date Mar 19 '1894.

Machine. Reel.

Turns Cor. + Depth 3 fms

Shot or lead 14 lb, Hand.

Bottom fm s bk shs

Bottom temperature } none
No. of thermometer } taken. Cor.

Corrected temperature

Air 60 Surface 5-8 Drift 200 yds

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	2 AM 11.56	9 AM 12.10
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
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		1700		
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		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
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 2900
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 3100
 3200
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 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:

Many small shells and shrimp
 bottom specimen saved.

San Diego Bay

No. 3567 Date Mar 21/94

Machine. Reel.

Turns Cor. + Depth 3 fms

~~Shot or lead~~ 14 lb. Hand.

Bottom fine S. bk. Sh

Bottom temperature } none

No. of thermometer } taken, Cor.

Corrected temperature

Air 57. Surface 57. Drift 300 yds

Trawl or dredge boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9.37	9.47.
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
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		2000		
		2100		
		2200		
		2300		
		2400		

2500
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 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:

Many small shells, few shrimps,
 few Ascidians, few small crabs,
 few small Annelida,

San Diego Bay

No. 3568 D. Date Mar 21/94

Machine. Reel.

Turns Cor. + Depth 4 fms

~~Shot~~ or lead 14 lb. Hand

Bottom Grd & bk Sh

Bottom temperature } none
No. of thermometer } taken, Cor.

Corrected temperature

Air 57 Surface 57 Drift 300 yds

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9.52	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
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 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

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

REMARKS:

Few small shells, one shrimp,

San Diego Bay

No. 3569 ¹⁵. Date March 21/94

Machine. Reel.

Turns Cor. + Depth 6 fms.

~~Shot or lead~~ 14 lb. Hand.

Bottom fine S. bit S.

Bottom temperature } none

No. of thermometer } taken - Cor.

Corrected temperature

Air 59 Surface 57 Drift 200 yds

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.06	10.16
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

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

REMARKS:

Many small shells, few
strawp,

San Diego Bay

No. *3570 N.* Date *March 21/94*

Machine. Reel.

Turns Cor. + Depth *2 fms*

Shot or lead *14 lb. Hand.*

Bottom *fine S. Oyster Sh.*

Bottom temperature } *none*

No. of thermometer } *taken.* Cor.

Corrected temperature

Air *60* Surface *57* Drift *300 yds*

Trawl or dredge *boat*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>10.24</i>	<i>10.45</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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		1400		
		1500		
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		2100		
		2200		
		2300		
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2500
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2900
3000
3100
3200
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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:

*Dragged over Oyster beds,
few oysters great many shells,
sponges, many small shells,
few small razor clam shells,*

San Diego Bay

No. 3571. Dr. Date Mar 21/94.

Machine. Reel.

Turns Cor. + Depth 2 fms

Shot or lead 14 lb. Hand.

Bottom Sand

Bottom temperature } none

No. of thermometer } taken, Cor.

Corrected temperature

Air 60. Surface 59 Drift 200 yds

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	11.5	11.15
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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		1500		
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		2200		
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4000

SERIAL TEMPERATURES.

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

REMARKS:

Dredge empty,

807.

San Diego Bay

No. *3592 S* - Date *March 21/94*

Machine. Reel.

Turns Cor. + Depth *2 fms*

~~Shot or lead~~ *14 lb. Hump.*

Bottom *M. s. fine S.*

Bottom temperature } *none*

No. of thermometer } *taken* Cor.

Corrected temperature

Air *58.* Surface *56* Drift *0.3*

Trawl or dredge *boat*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>71-18</i>	<i>11-26</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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SERIAL TEMPERATURES.

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

REMARKS:

1 bot. bottom specimen saved
 consisting of small shells,
 worm tubes

San Diego Bay

No. 5523 Dr. Date Nov 21/94

Machine. Reel.

Turns Cor. + Depth 1 1/2 fms

Shot or lead 14 lb. Hand.

Bottom M. S.

Bottom temperature } none
No. of thermometer } taken, Cor.

Corrected temperature

Air 58 Surface 56 Drift 300 yds

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	11.44	11.54
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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SERIAL TEMPERATURES.

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

REMARKS:

Many small shells & worm tubes, 1 crab

Santiago Bay

No. *3574* Date *Mar 21 96*

Machine. Reel.

Turns Cor. + Depth *53 fms*

Shot or lead *14 lb. Hand.*

Bottom *fine S.*

Bottom temperature } *none*

No. of thermometer } *later* Cor.

Corrected temperature

Air *62* Surface *57* Drift *1/4 m.*

Trawl or dredge *boat*

SOUNDING WIRE.		TURNS	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>2.45</i>	<i>3.00</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

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3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

1 qt shells & ascidians, egg
cases, sponges, few crabs,
3 small flounders, 1 worm,
1 naked mollusk, 1 shrimp,

597.

San Diego Bay

No. 3575 Dr. Date Mar 21st 94

Machine. Reel.

Turns Cor. + Depth 6 3/4 fms

Shot or lead 14 lb. Hand.

Bottom fine S.

Bottom temperature }
No. of thermometer } now
Corrected temperature } taken

Air Surface 37 Drift 1/4 M.

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	3,12	3,24
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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SERIAL TEMPERATURES.

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

REMARKS:

1 qt - Ascidians, Egg cases,
 Sponge, 1 small flounder, few
 shrimp, few Chalar, 3 sp.

S. San Diego Cal.
 No. 3576 15. Date Mar 21st 94
 Machine. Reel.

Turns Cor. + Depth 5 fms
~~Shot or lead~~ 14 lb. Lead
 Bottom fine S. X bit. Sh. 3
 Bottom temperature } none
 No. of thermometer } taken Cor.
 Corrected temperature
 Air 64 Surface 58 Drift 1/4 M.
 Trawl or dredge box.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	3.37	3.47
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
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SERIAL TEMPERATURES.

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

REMARKS:

1 qt Crabs 3 sp. Sponge, two
 Ophiurans, few shrimps, 1 worm.
 1 penatula,

S. San Diego Bay

No. 3577 Date Mar 21 '94

Machine. Reel.

Turns. Cor. + Depth 6 fms

Shot or lead 14 lb. Hand.

Bottom fine S. & BK sh.

Bottom temperature } now

No. of thermometer } taken Cor.

Corrected temperature

Air 65 Surface 57 Drift 1/4 M.

Trawl or dredge bad

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	4.03	4.13
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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4000

SERIAL TEMPERATURES.

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

REMARKS:

Two holothurians, one sponge
1 small fish, few shrimp,
1 qt-crabs, 3 sp. 2 small shells,

S. S. San Diego Bay
 No. *3578* Date *Nov 21 90*

Machine. Reel.

Turns Cor. + Depth *6 fms.*

Shot or lead *14 lb. Hand*

Bottom *fine S X BK S.*

Bottom temperature } *none*

No. of thermometer } *taken* Cor.

Corrected temperature

Air *37* Surface *56* Drift *1/4 M.*

Trawl or dredge *boat*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>24.45</i>	<i>5.10</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
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SERIAL TEMPERATURES.

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

REMARKS:

3 flounders, few shrimp,
few crabs, 1 small flounder,

San Diego Bay
 No. 3579 Dr. Date Mar 27 90

Machine. Reel.

Turns Cor. + Depth 9 fms

Shot or lead 14 lb. Hand.

Bottom Rk. S.

Bottom temperature } none
 No. of thermometer } taken Cor.
 Corrected temperature }

Air 57 Surface 53 Drift 2/10 M.

Trawl or dredge none.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9.53	10.03
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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SERIAL TEMPERATURES.

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

REMARKS:

Empty.

San Diego Bay

No. 3580 S. Date Mar 27 '94

Machine. Reel.

Turns Cor. + Depth 7 fms

Shot or lead 14 lb Hand -

Bottom kid.

Bottom temperature }
 No. of thermometer } none
 Corrected temperature } taken - Cor.

Air 57 Surface 53 Drift 1/10 M

Trawl or dredge boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10,13	10,19
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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SERIAL TEMPERATURES.

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

REMARKS:

1 qt - Sand dollars, few crabs,

San Diego Bay

No. 35815 - Date May 27th 1902

Machine. Reel.

Turns Cor. + Depth 12 fms

Shot or lead 14 lb. Dayd.

Bottom fine S. & X's.

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature } taken.

Air 56 Surface 53 Drift 1/10 M.

Trawl or dredge box.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.79	10.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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SERIAL TEMPERATURES.

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

REMARKS:

Sponge, 1 crab, few dead shells
3 naked mollusks, 1 shrimp, one
worm, few small crabs,

S. San Diego Bay

No. 3582 Date May 27 92

Machine. Reel.

Turns Cor. + Depth 6 3/4 fms

Shot or lead 14 lb. Hand

Bottom fine s & k k's.

Bottom temperature } none
 No. of thermometer } taken Cor.

Corrected temperature

Air 39 Surface 54 Drift 3/1001,

Trawl or dredge boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.55	11.05
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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SERIAL TEMPERATURES.

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

REMARKS:

Few shrimp & lead shells,

San Diego Bay

No. 3583; 5 - Date May 20 1892

Machine. Reel.

Turns Cor. + Depth 4 fms

Shot or lead 14 lb. Hand

Bottom fine s & k Rks.

Bottom temperature } none

No. of thermometer } taken Cor.

Corrected temperature

Air 59 Surface 53 Drift 1/10 M.

Trawl or dredge box

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	11.10	11.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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SERIAL TEMPERATURES.

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

REMARKS:

Trawl filled with kelp, and few dead shells,

San Diego Bay
Bell buoy

No. 3584 R - Date May 28 1894

Machine. Reel.

Turns Cor. + Depth 8 fms

Shot or lead 14 lb. Hand.

Bottom fine s. & pt.

Bottom temperature none

No. of thermometer taken. Cor.

Corrected temperature

Air 58 Surface 54 Drift 3/10 M.

Trawl or dredge box

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	11.25	11.30
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
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		2100		
		2200		
		2300		
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3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

*Few Ophiurans, 1 small flounder
1 Crab, 1 small shell, few
worms,*

507.

San Diego Bay

No. 3085-D - Date March 24/94

Machine. Reel.

Turns Cor. + Depth 4 fms

Shot or lead 14 lb. Hand.

Bottom fine gy. s.

Bottom temperature

No. of thermometer

Corrected temperature

Air 63 Surface 57 Drift 3/10 mile

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	P.M. 1:30	P.M. 1:46
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
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	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:

*Trawl filled with grass.
One flounder.*

507.

San Diego Bay.

No. 3586 Date Mar 24/94

Machine. Reel.

Turns Cor. + Depth 4 fms

Shot or lead 14 lb. Hand.

Bottom fm gy s.

Bottom temperature } none
 No. of thermometer } taken Cor.
 Corrected temperature

Air 63 Surface 57 Drift 7/10 mile

Trawl or dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	P. M. 1.50	P. M. 2.15
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
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 2800
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 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:

Trawl filled with grass, &
 fine sand, two naked
 Mollusk, 3 shrimp,

607.

San Diego Bay.

No. 3587 Date Mar 24/94

Machine. Reel.

Turns Cor. + Depth 3 fms,

~~Shot or lead~~ 14 lb. Hand-

Bottom fine gy. S.

Bottom temperature

No. of thermometer

Corrected temperature

Air 64 Surface 57 Drift $\frac{2}{10}$ mile

Trawl or dredge boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	2.30	2.45
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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	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:

*Not filled with fine sand
No specimens,*

507.

San Diego Bay

No. 3588 D - Date Mar 24, 1894

Machine. Reel.

Turns Cor. + Depth $2\frac{1}{2}$ fms,~~Shot or lead~~ 14 lb. Hand,

Bottom Rky Oystis

Bottom temperature } none

No. of thermometer } taken, Cor.

Corrected temperature

Air 64 Surface 57 Drift $\frac{3}{10}$ m

Trawl or dredge boat,

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	P. M 3.05	P. M 3.20
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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		1400		
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		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

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

REMARKS:

Many Oysters dead & alive
 (Rock) Sponges, few
 flounders, Aphirians,
 & Crabs, Ascidians

507.

San Diego Bay

No. 3589 S - Date Mar 24 1894

Machine. Reel.

Turns Cor. + Depth 3 fms

~~Shot or lead~~ 14 lb. Hard.

Bottom Rky, oysters

Bottom temperature

No. of thermometer

Corrected temperature

Air 64 Surface 57 Drift $\frac{3}{10}$ m

Trawl or dredge boat

} none
taken, Cor.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	3.25	3.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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3700

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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:

Ascidians, Cystic shells,
 Sponges few found, Sculpin
 1 Turbot few specimens,
 small water mollusks, few
 shrimp, & small crabs,

607.

San Diego Bay

No.

3590 S Date Mar 24 1894

Machine.

Reel.

Turns

Cor. +

Depth

3 1/2 fms

~~Shot or lead~~

14 lb Hand

Bottom

Rhy bk sh

Bottom temperature

none

No. of thermometer

taken. Cor.

Corrected temperature

Air

65

Surface

57

Drift

3/10 m.

Trawl or dredge

rawl

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	P.M. 3.50	P.M. 4.05
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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	4000	

SERIAL TEMPERATURES.

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

REMARKS:

Ascidians, Oyster shells
 2 sculpin, sponge, one
 flounder, one ophiuroid
 few crabs, 1 shrimp,

807.

San Diego Bay

No. 35915 - Date Mar. 24th 1894

Machine. Reel.

Turns Cor. + Depth 4 1/2 fms

~~Shot or~~ lead 14 lb. Hand.

Bottom Rky bk sh.

Bottom temperature

No. of thermometer

Corrected temperature

} none taken Cor.

Air 64 Surface 57 Drift 9/10 m.

Trawl or dredge boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	P.M. 4.25	P.M. 4.45
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

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

REMARKS:

few *Stomatopoda*, *Ascidium*
Crabs, 3 naked mollusks
sponge, 1 small sculpin
& small shells; 2 shrimps

807.

S.P.S. 4871 *Wilson bearing S. 41. E.*
dist 1 1/2 miles

No. *3092* Dr. Date *April 30/94*
James Machine. Reel.

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

Shot or lead *26 lbs*

Bottom *A. r. c.*

Bottom temperature

No. of thermometer } *none* Cor.

Corrected temperature } *taken*

Air Surface Drift *W by N*

Trawl or dredge *9 ft beam*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.44</i>	<i>9.45</i>	0	<i>9.50.22</i>	<i>9.59.10</i>
		10	<i>9.54.26</i>	<i>9.56.20</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		

9.45.3

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:

~~One hand~~ One Astropyler
 One Sea urchin,

Beam trawl was torn away from
 net & lost.

S. 1 Right *W. N. W. 2 N.*
 48-11-30, 122-48.

No. 35930 Date April 30 1914
 Cannon Machine. Reel.

Turns 35 Cor. + 0 Depth 37 fms

Shot or lead 26 lb.

Bottom Rky.

Bottom temperature 46.

No. of thermometer 66724 Cor. WNW 1/2 W

Corrected temperature
 Air Surface Drift .3 miles

Trawl or dredge Skipper dredge.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10, 27	10, 27.45	0	10, 29	10, 42.00
		5	10, 31.45	10, 40.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Part Log 100,

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

SERIAL TEMPERATURES.

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

REMARKS:

1 Astrophyton; 2 Urchins; 1 qt. Holothurians; few Shrimps; Worms; small Hermits; few Lcp Barnacles - Sm Stars, and Ophiurans - 1 qt. small shells, sev'l sps, including Brachiopods. Few small Cup - corals and Sponges -

48-12, 122.50, 30
 No. 3594 Date Apr 30 94
 Sigsbee Machine. Reel.

Turns 34 Cor. + 02 Depth 36 fms

Shot or lead 26 lb

Bottom S. x Peby

Bottom temperature 46

No. of thermometer 66722 Cor.

Corrected temperature

Air Surface Drift .4 West

Trawl or dredge Tangles.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10, 42, 30	10, 43, 00	0	10, 47, 30	11, 04, 00
		70	54, 50	11, 01, 00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500		
	2600		
	2700	5745	10
	2800	34	10
	2900	511	7
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

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

REMARKS:

4 Stars (3 ops); 1 pick Thomas -

48,13.00, 122,5236

8: 307
PMH

No. 3595 Date April 30 94

Sigsbee, Machine. Reel.

Turns 457 Cor. + 2 Depth 49 fms

Shot or lead 26 lb

Bottom Bek gy s

Bottom temperature 21.5

No. of thermometer 69280 Cor.

Corrected temperature

Air 51 Surface 46 Drift

Trawl or dredge Tangles

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.38.20	11.39.20	0	11.56.00	15-10
11.39.	11.40.00	73	11.57.30	12-12-25
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000'		
		2100		
		2200		
		2300		
		2400		

P. Plug 4.2

Two min 12 m.

Run 3 miles while dredging

	2500	
	2600	
	2700	5745. 15
	2800	47 10
	2900	495 7
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
5	46	66724		
25				
15	46	66665		
50				
25	45	69480		
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

$\frac{1}{2}$ bu. Sea Urchins, 12 Starfish
 (3 species) 1 Bryozoa, 1 Sand lance

J. H. A. 4F, 14, 30, 132, 58

No. 3596 Date Apr 30, 1894
Tanner Machine. Reel.

Turns 78 Cor. + 3 Depth 81 fms

Shot or lead 26 lbs

Bottom br M

Bottom temperature 44.5

No. of thermometer 66724 Cor.

Corrected temperature

Air Surface Drift $S 1 \frac{1}{2} W$
 $\frac{7}{8}$ mi

Trawl or dredge large beam, mud bag

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-58-25	1-01-30	0	1-08-40	36-15
59-00	12-59-40	100	-13-00	33-45
		150	15-55	1-30-55
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

P. Log 8.9

Surface net over at 109; in at 131

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
548	3100	
78	3200	
467	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:

5 small fishes (Agonidae) 2 species
 20 Ratfish, 2 deep sea Sole King Cod
 3 skates (2 species), 1 very large
 2 herring 1 packurchins
 1 pack scallops, few small
 starfish, 1 qt. small shells
 (several species, 1 qt. Shrimps
 " " "

J. H. 1071

No. *3596* *Dr* *Contd* Date *Apr 30, 1894*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift *S x E (mag) 1/2 mi.*

Trawl or dredge *Tanner Intermediate*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	1-45-45	2-03-25
		50		2-01-00
		100	48-15	1-57-25
		200		
		300		
		400	<i>Towed at a depth of 40 fms</i>	
		500		
		600	<i>Hauled in 10 fms and dropped messenger</i>	
		700		
		800	<i>struck in 15 sec</i>	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

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

REMARKS:

Abundance of small sagittae
& larval crustacea in both
parts.

See

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

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

next page

	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:

J. W. A. 1894

48,15, 123,60

No. 3597 Dr. Date Apr. 30, 1894

Tanner Machine. Reel.

Turns 64 Cor. + 3 Depth 67 fms

Shot or lead 26 lbs

Bottom cre bk S

Bottom temperature 45

No. of thermometer 66724 Cor.

Corrected temperature

Air Surface Drift 1 mi *S x W 1/2 W*

Trawl or dredge large beam mud bag

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-06-10	07-56	0	2-08-05	41-45
06-40	2-06-50	100	13-40	38-10
		150	15-50	2-36-20
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

545
64
581

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:

10 Flounders (Parophrys) and 1 ditto
(Atheresthes); 1 Tom Cod; few small
Agonidae; 1 Skate; 1/2 pk Urchin
1/2 pk Shells (several sps) mostly Priene
with Urnites.
1 qt. Shrimps & Prawns. 1 doz Stars 4 sps
1 Lge Naked Mollusk. 7/2 pk Scallops

F. K. H. 4 F, 14 - 123, 00

No. *3-89 Hyd* Date *Apr 30, 1894*
Sigsbee Machine. 2 Reel. *Navy*
 Turns *56* Cor. + *4* Depth *60 fms*
 Shot or lead *26 lb.*
 Bottom *fine gy. S*
 Bottom temperature _____
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air _____ Surface _____ Drift _____
 Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-15-55</i>	<i>50-05</i>	0		
<i>17-00</i>	<i>2-19-00</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
<i>118.3</i>	<i>107</i>	800		
<i>36</i>	<i>155</i>	900		
<i>4127</i>	<i>4</i>	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

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

REMARKS:

Preceding pages cut out
 on account of having
 incorrect records of
 correction tables for
 sounding nets.

H.C.F.

No. _____ Date **17 May 1894.**
Sigsbee Machine. Reel.

Turns _____ Cor. + _____ Depth _____
 Shot or lead _____
 Bottom _____
 Bottom temperature _____
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air _____ Surface _____ Drift _____
 Trawl or dredge _____

Correction table No. 2 Navy Reel.

SOUNDING WIRE.			TURNS.	DREDGE ROPE.	
<i>Fms.</i>	<i>Fms.</i>	<i>Fms.</i>		<i>Fms.</i>	
0	50	50	15	1400	1415
0	100	100	16	50	1466
0	50	50	17	1500	1517
0	200	200	18	50	1568
0	50	50	19	1600	1619
1	300	301	21	50	1671
1	50	351	23	1700	1723
1	400	401	25	50	1775
1	50	451	27	1800	1827
2	500	502	29	50	1879
2	50	552	31	1900	1931
2	600	602	33	50	1983
2	50	652	35	2000	2035
3	700	703	37	50	2087
3	50	753	39	2100	2139
4	800	804	41	50	2191
4	50	854	43	2200	2243
5	900	905	45	50	2295
6	50	956	47	2300	2347
7	1000	1007	49	50	2399
8	50	1058	51	2400	2451
9	1100	1109	53	50	2503
10	50	1160	55	2500	2555
11	1200	1211	57	50	2607
12	50	1262	59	2600	2659
13	1300	1313	61	50	2711
14	50	1364	63	2700	2763

2 fms per 100
4 fms per 100

<u>Faths.</u>	<u>Fms.</u>		<u>Faths.</u>	<u>Fms.</u>
6	2750	2816	3500	3611
69	2800	2869	50	3664
72	50	2922	3600	3717
75	2900	2975	50	3770
78	50	3028	3700	3823
81	3000	3081	50	3876
84	50	3134	3800	3929
87	3100	3187	50	4083
90	50	3240	3900	4037
93	3200	3293	50	4091
96	50	3346	4000	4145
99	3300	3399	50	4199
102	50	3452	4100	4253
105	3400	3505	50	4307
108	50	3558	4175	4361

SERIAL TEMPERATURES: 4200 - 4361

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
		173	50	4523
25		177	4000	4577
50		181	50	4631
		4185	21500	4685
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:
 Splies at 100, 295, 630, 880, 1210, 1625, 1970, 2170, 2475, 2970, 3275, 3560, 3670, 3770, and 4230 fms. - from zero.

No. *H.C.F.* Date *18 May 1894.**Tanner* Machine. Reel.Turns Cor. *4* Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Turns.	Fms.		Down.	Up.
<i>0</i>	<i>0</i>	0	<i>0</i>	
<i>25</i>	<i>25</i>	100	0	
<i>50</i>	<i>50</i>	200	0	
<i>75</i>	<i>75</i>	300	0	
<i>100</i>	<i>101</i>	400	1	
<i>25</i>	<i>126</i>	500	1	
<i>50</i>	<i>151</i>	600	1	
<i>75</i>	<i>176</i>	700	1	
<i>200</i>	<i>202</i>	800	2	
<i>25</i>	<i>227</i>	900	2	
<i>50</i>	<i>252</i>	1000	2	
<i>75</i>	<i>278</i>	1100	3	
<i>300</i>	<i>303</i>	1200	3	
<i>25</i>	<i>329</i>	1300	4	
<i>50</i>	<i>354</i>	1400	4	
<i>75</i>	<i>380</i>	1500	5	
<i>400</i>	<i>406</i>	1600	6	
<i>25</i>	<i>432</i>	1700	7	
<i>50</i>	<i>458</i>	1800	8	
<i>75</i>	<i>484</i>	1900	9	
<i>500</i>	<i>510</i>	2000	10	
<i>25</i>	<i>536</i>	2100	11	
<i>43</i>	<i>555</i>	2200	12	
		2300		
		2400		

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

SERIAL TEMPERATURES.

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

5.26
26
5.62
1.36

REMARKS:

Measured to bitter end
of stray line.

Record of Bassett Soundings
 Off Aggatu Id, Alaska.
 No. _____ Date June 6, 1894
 Tanner Machine. Reel.

Turns _____ Cor. + _____ Depth _____
 Shot or lead _____
 Bottom _____
 Bottom temperature _____
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air _____ Surface _____ Drift _____
 Trawl or dredge _____

SOUNDING WIRE-		TURNS.	DREDGE ROPE.	
DOWN.	UP		DOWN	UP
Time	Time	0	Bottom P. Log	
6.30	14 $\frac{3}{4}$	100	by hand lead	
6.31	18	200	stey	19.0
6.34	17 $\frac{1}{2}$	300	"	19.1
6.36	17	400	"	19.3
6.37.30	23	500	fne gy s stey	19.6
6.39.40	26	600	"	19.8
6.41.20	31	700	"	20.0
6.44.10	32	800	"	20.2 $\frac{1}{2}$
6.45.15	31 (?)	900	"	20.5
6.54.10	38 $\frac{1}{2}$	1000	"	20.8
6.56.25	41	1100	gy s	21.0
6.58.50	46	1200	fne gy s stey	21.3
7.01.10	36	1300	stey	21.5 $\frac{1}{2}$
7.03.03	41	1400	fne gy s stey	21.8
7.05.50	46	1500	"	22.1
7.08.20	38 $\frac{1}{2}$	1600	"	22.4
7.10.50	33	1700	stey	22.7 $\frac{1}{2}$
7.13.30	33 $\frac{1}{2}$	1800	fne gy s	23.0
7.17.40	38 $\frac{1}{2}$	1900	"	23.4 $\frac{1}{2}$
7.21.10	36	2000	stey	23.8
7.24.50	33 $\frac{1}{2}$	2100	fne gy s stey	24.2
		2200		
		2300		
		2400		

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

KPT
N 1/2 W 6'

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	6.45.15			
100	Wire jumped reel when lead			
200	struck bottom. Ship stopped			
300	and wire replaced			
400				
500		SPT		
600	KPT	N 1/2 W - S x W 4 W.		
700				
800	7.10.50			
900	Man at machine did not re-			
1000	place bottom plug of sounder.			

REMARKS:

KPT
SPT
N 1/2 W 4 W - S x W 2 S

81

52-46-30 or
175-27-00 E

Hyd.

No. 2490 Date June 6 1912

Sigsbee Machine. 2 Reel. No. 1

Turns 2115 Cor. + 122 Depth 2237

Shot or lead 335

Bottom No. specimen in cups

Bottom temperature

No. of thermometer No. therm Cor.

Corrected temperature

Air 44 Surface 40 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.10.30	37.30	0		
11.50	36.30	100		
13.30	35.50	200		
15.00	35.00	300		
16.35	33.50	400		
18.35	32.40	500		
20.20	31.15	600		
24.15	29.30	700		
24.10	27.45	800		
26.15	25.30	900		
28.40	23.10	1000		
31.15	21.40	1100		
33.15	20.15	1200		
36.15	18.30	1300		
38.50	17.30	1400		
42.00	15.40	1500		
44.05	14.30	1600		
46.45	13.20	1700		
49.45	12.15	1800		
52.30	11.00	1900		
55.35	10.00	2000		
59.00	8.40	2100		
1.45	9.15	2200		
		2300		
		2400		

O. Log. 36.2

	2500	
	2600	
	2700	
	2800	
	2900	4175 159
	3000	2115 37
	3100	<u>2060</u> 122
	3200	2115
	3300	<u>2237</u>
	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:

J. W. H.

52-41-30 N
176-24 E

No. 3491 Hyd Date June 7, 1894

Sigsbee Machine. 2 Reel. Navy

Turns 1990 Cor. + 117 Depth 2107.

Shot or lead 30-lbs.

Bottom br M fine S.

Bottom temperature 35.0

No. of thermometer 63902 Cor.

Corrected temperature

Air 40 Surface 39 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4-32-00	57-05	0		
33-15	57-55	100		
34-20	57-05	200		
35-30	56-15	300		
36-45	55-25	400		
38-00	54-40	500		
39-15	53-45	600		
40-40	52-45	700		
42-15	51-40	800		
43-45	50-30	900		
45-30	49-15	1000		
47-15	48-00	1100		
49-15	46-30	1200		
51-15	44-50	1300		
53-15	43-00	1400		
55-20	40-50	1500		
57-30	36-45	1600		
59-40	35-10	1700		
5-01-45	18-15	1800		
04-00	10-15	1900		
06-15	5-08-00	2000		
		2100		
		2200		
		2300		
		2400		

R Log 774

Remarks.

At 1830 turns, engine belt broke, wire jumped from reel. Time 5.11.45. Started to reel in again 5.17.30

At 1723 turns, drain pipe blew out. Time 5.19.35. Replaced it and started reeling in at 5.34.35.

5.19.35 1723
5.34.35

5.11.45 1830
5.17.30

4175	159
1990	42
<hr/> 2185	<hr/> 117
	199.0
	<hr/> 2107

57. 54

60. 55