Dr 3562 - 3597
Hyd 3486 - 3491

James Raney.

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

next Dr

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:

507. FKH. 57°01' N. 136°46' W

No. 3486 Hyd. Date Sept. 17, 1893

Sigsbee Machine. #2 Reel. Navy

Turns 1194 Cor. + 76 Depth 1270

Shot ~~or lead~~ 60 lbs.

Bottom Sr. M.

Bottom temperature 35.0

No. of thermometer 63919 Cor. +0.1

Corrected temperature 35.1

Air 53° Surface 52° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5-17-05	41-20	0	~~4183~~	~~159~~
18-00	40-15	100	~~1194~~	~~77~~
18-50	39-35	200	~~2989~~	~~82~~
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 1.8 mi. while reeling in.

2—571 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:

TKH
~~507.~~ √ 57°00' N. 136°12'30" W

No. 3487 Hyd Date Sept 17, 1893.
Sigsbee 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	52-20	0	4183	159
38-33	51-10	100	710	113
39-25	50-20	200	3473	46
40-17	49-30	300		710
41-15	48-40	400		756
42-10	47-50	500		
43-15	47-00	600		
44-20	46-05	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

2—571 P. Log: 7.4

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

REMARKS:

507. NRB 56°58'40" N : 135°47'30" W.

No. 3488 Hyd Date Sept 17/93

Tanner Machine. Reel.

Turns 53 Cor. + 2 Depth 55 fms

~~Shot or~~ lead 28 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		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

P Log = 20.5

		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		546 33 192		
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

San Diego Bay

No. 3562 D. Date Mar 19th, 1894.

Hand ~~Machine~~. ~~Reel.~~

Turns Cor. + Depth 7 fm

~~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 boat — 15 minutes

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			a m	a m
		0	9.25	9.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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:

Numerous small shells, one worm bottom specimen saved, consisting of very small shells & sand, one sand dollar.

507.

San Diego Bay.

No. 3563 D. Date Mar 19-1894.

Machine. Reel.

Turns Cor. + Depth 6½

~~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

~~Traul or~~ dredge Bad.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			a.m.	a.m.
		0	10.25	10.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

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

507. San Diego Bay

No. 3564 D - Date Mar 19" 1894.

Machine. Reel.

Turns Cor. + Depth 5 fms.

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

Bottom fm S.M. blk sh.

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature

Air 66 Surface 58 Drift 200 yds

~~Trawl or dredge~~ boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			a m	a m
		0	10.50	11.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL 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

507. San Diego Bay

No. 35655 - Date Mar 19 1894.

Machine. Reel.

Turns Cor. + Depth 4½ fms

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

Bottom fm S. M, brk shs

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

Air 64 Surface 58 Drift 200 yds.

~~Trawl or~~ dredge boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
a m	a m		a m	a m
		0	11, 28	11.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		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:

Entire haul saved in one bottle, Great many small shells & sand,

507. 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 & bk shs

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

Air 60 Surface 58 Drift 200 yds

~~Trawl or~~ dredge bool

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			a m	p m
		0	11.56	12.10
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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 one shrimp
bottom specimen saved.

507. San Diego Bay

No. 3567 Dr Date Mar 21/94

Machine. Reel.

Turns Cor. + Depth 3 fms

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

Bottom fine S. & brk. Sh

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature }

Air 57. Surface 57. Drift 200 yds

~~Trawl or~~ dredge boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	A.M. 9.37	9.47
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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 shrimps, few Ascidians, few small crabs, few small Crustacea,

507. San Diego Bay

No. 3568 Dr. Date Mar 21/94

Machine. Reel.

Turns Cor. + Depth 4 fms

~~Shot or~~ lead 14 lb. Hand

Bottom Hrd & brk Sh

Bottom temperature } none

No. of thermometer } taken, Cor.

Corrected temperature }

Air 57 Surface 57 Drift 200 yds

~~Trawl or~~ dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	A.M. 9.57	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		

2—571

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

SERIAL TEMPERATURES.

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

REMARKS:

Few small shells, one shrimp,

507. San Diego Bay

No. 3569 D. Date March 21/94

Machine. Reel.

Turns Cor. + Depth 6 fms.

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

Bottom fine S. but Sh.

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

Air 59 Surface 57 Drift 200 yd

~~Trawl or~~ dredge boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	Am. 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		

2—571

		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 shrimp.

507.

San Diego Bay

No. 3570 D. 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	A.M. 10.24	10.45.
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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:

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

507.

San Diego Bay

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

Machine. Reel.

Turns Cor. + Depth 2 fms

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

Bottom Hard

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

Air 60. Surface 57 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		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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:

Dredge empty.

507. San Diego Bay

No. 3592 S - Date March 21 1904

Machine. Reel.

Turns Cor. + Depth 2 fms

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

Bottom Mo 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	11-18	11.26
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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 bot. bottom specimen sand consisting of small shells, worm tubes

507. San Diego Bay

No. 5573 D. Date Mch 21/94

Machine. Reel.

Turns Cor. + Depth 1½ 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		
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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:

Many small shells & worm tubes, 1 crab

607. San Diego Bay

S.

No. 3574 D. Date Mar 21 94

Machine. Reel.

Turns Cor. + Depth 5 3/4 fm's

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

Bottom fine S.

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature }

Air 64 Surface 57 Drift 1/4 M.

Trawl ~~or dredge~~ boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	2.45	3.00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
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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:

1 qt shells & Ascidians, Egg Cases, sponge, few crabs, 3 small flounders, 1 worm, 1 naked mollusk, 1 shrimp,

507. San Diego Bay

No. 3575 D. Date Mar 21" 94

Machine. Reel.

Turns Cor. + Depth 6 3/4 fins

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

Bottom fine S.

Bottom temperature } none

No. of thermometer } taken Cor.

Corrected temperature }

Air 64 Surface 57 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		
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		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 - Ascidians, Egg cases, Sponge, 1 small flounder, few shrimp, few chaetes, 3 sp.

507. S. San Diego Cal.

No. 3576 S. Date Mar 21" 9x

Machine. Reel.

Turns Cor. + Depth 5 fms

~~Shot or~~ lead 14 lb. Hand

Bottom fre S. X brn Sh 3

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

Air 64 Surface 38 Drift 1/4 M.

Trawl ~~or dredge~~ boat.

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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		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 gt Crabs & sp. Sponge, two Ophiuras, few shrimps, 1 worm. 1 pennatula,

507. S. San Diego Bay

No. 3577 D Date Mar 21" 9x

Machine. Reel.

Turns. Cor. + Depth 6 fins

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

Bottom Ave S. & Okn Sh.

Bottom temperature } none

No. of thermometer } taken Cor.

Corrected temperature }

Air 65 Surface 57 Drift 1/4 M.

Trawl ~~or dredge~~ Bad X.

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

Two holothurians, one sponge
1 small fish, few shrimp,
1 gt crabs, 3 sp. 2 small shrimp,

507. S. San Diego Bay

No. 3578 D Date Mar 21 90

Machine. Reel.

Turns Cor. + Depth 6 fins,

~~Shot or~~ lead 14 lb. Hand

Bottom fine S X bkn S.

Bottom temperature } none

No. of thermometer } taken Cor.

Corrected temperature

Air 39 Surface 56 Drift 1/4 M.

Trawl ~~or dredge~~ boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	4.45	5.10
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
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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:

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

507. San Diego Bay

S.

No. 3579 Dr. Date Mar 22 92

Machine. Reel.

Turns Cor. + Depth 9 fms

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

Bottom Rock.

Bottom temperature } none

No. of thermometer } taken Cor.

Corrected temperature }

Air 57 Surface 53 Drift 2/10 M.

Trawl ~~or dredge~~ Road.

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		
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		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:

Empty.

507. S. San Diego Bay

No. 3580 S. Date Mar 22 94

Machine. Reel.

Turns Cor. + Depth 7 fms

~~Shot or~~ lead 14 lb Hand -

Bottom Rid.

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

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		
		1200		
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		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 gt Sand dollars, few crabs,

S. San Diego Bay

507.

No. 358 / 15 - Date Mar 22 9/24

Machine. Reel.

Turns Cor. + Depth 12 fms

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

Bottom fine S. X R.K.S.

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature }

Air 56 Surface 53 Drift 2/10 M.

Trawl ~~or dredge~~ boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.29	10.40
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
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		3100		
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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:

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

507. S. San Diego Bay

No. 3582 D Date Mar 27 92

Machine. Reel.

Turns Cor. + Depth 6 3/4 fins

~~Shot or~~ lead 14 lb. Hand

Bottom fine S X Rk's.

Bottom temperature } none

No. of thermometer } taken Cor.

Corrected temperature }

Air 59 Surface 54 Drift 3/10 M,

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		
		1200		
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		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

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

REMARKS:

Few shrimp & dead shells,

507. S. San Diego Bay

No. 3583; D- Date Mar. 27th 92

Machine. Reel.

Turns Cor. + Depth 4 fms

~~Shot or~~ lead 14 lb. Hand

Bottom fine S & R.K.S.

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

Air 59 Surface 53 Drift 0/10 M.

Trawl ~~or dredge~~ bad X.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	11.10	11.20
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
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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:

Travel filled with kelp, and few dead shells,

501. S. San Diego Bay
Bell buoy

No. 3584 L - Date Mar 7 '94

Machine. Reel.

Turns Cor. + Depth 8 fms

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

Bottom fine S. & Rks

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

Air 58 Surface 54 Drift 3/10 M.

Trawl ~~or dredge~~ boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE. Bell	
DOWN.	UP.		DOWN.	UP.
		0	11.25	11.35
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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		3000		
		3100		
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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 Ophiuras, 1 small flounder 1 Crab, 1 small shell, few worms,

507. San Diego Bay

No. 38855 - Date March 24" /94

Machine. Reel.

Turns Cor. + Depth 4 fm

Shot or lead 14 lbs Hand.

Bottom fine gy. b.

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

Air 63 Surface 57 Drift 3/10 mile

Trawl ~~or dredge~~ boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P.M.	UP. P.M.
		0	1.30	1.46
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
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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:

Trawl filled with grass.
One flounder.

507. San Diego Bay.

No. 3586 B 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.
			~~P. in~~	~~P. in~~
		0	1.50	2.15
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
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		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,

507. San Diego, Bay.

No. 3587 D Date Mar 24/94

Machine. Reel.

Turns Cor. + Depth 3 fms,

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

Bottom fine gy. S.

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

Air 64 Surface 57 Drift 2/10 mile

Trawl ~~or dredge~~ boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			P.M.	P.M.
		0	2.30	2.45
		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:

Not filled with fine sand
No specimens,

507. San Diego Bay

No. 3588 D Date Mar 24, 1894

Machine. Reel.

Turns Cor. + Depth 2½ fms,

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

Bottom Rky Oyster

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

Air 64 Surface 57 Drift 3/10 m

Trawl ~~or dredge~~ boat,

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P. M	UP. P. M
		0	3.05	3.20
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
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		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) Sponge, few flounders, Ophiuraus & Crabs, Ascidians

507. San Diego Bay

No. 3589 D Date Mar 24" 1894

Machine. Reel.

Turns Cor. + Depth 3 fms

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

Bottom Rky, oyster

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature }

Air 64 Surface 57 Drift 2/10 m

Trawl ~~or dredge~~ boat

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P.M.	UP. P.M.
		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		

2—571

		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:

Ascidians, Oyster shells, Sponge, few foraminifers, Scalpel, 1 Luvatta, few ophiuroids, small naked mollusks, few shrimp, & small crabs,

507. San Diego Bay

No. 3590 D Date Mar 24 1894

Machine. Reel.

Turns Cor. + Depth 3½ fm.

~~Shot or~~ lead 14 lb Hand.

Bottom Rky blk sh.

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

Air 65 Surface 57 Drift 3/10 m.

Trawl ~~or dredge~~ trawl

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			P.M.	P.M.
		0	3.50	4.05
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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:

Ascidian, Oysters shells 2 sculpin, sponge, one flounder, one ophiura few crabs, 1 shrimp,

507. San Diego Bay

No. 3591 S. Date Mar. 24" 1894

Machine. Reel.

Turns Cor. + Depth 4½ fms

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

Bottom Rky trk Sh.

Bottom temperature } none

No. of thermometer } taken. Cor.

Corrected temperature }

Air 64 Surface 57 Drift 3/10 m.

Trawl ~~or dredge~~ boat.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			P. M.	P. M.
		0	4.25	4.45
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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:

fin flounders, Ascidians
Crabs, 3 naked mollusks
sponge, 1 small sculpin
2 small shells, 2 shrimps,

507. SRS 48 10 - Pt Wilson bearing S¾E dist 1½ miles

No. 3592 Dr. Date April 30/94

Tanner Machine. Reel.

Turns 27 Cor. + 0 Depth 27 fms

Shot or lead 26 lbs

Bottom R. & S.

Bottom temperature } None taken

No. of thermometer Cor.

Corrected temperature

Air Surface Drift W by N

Trawl ~~or dredge~~ 9 ft beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
a.m. 9.44	9.45	0	9.50.22	9.59.10
		~~100~~ 70	9.54.26	9.56.20
		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. 98.3

2—571

		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:

~~[illegible]~~ One Astrophyton
One Sea urchin,

Beam frame was torn away from
net & lost.

S. Right WNW½W. 48-11-30. 122-48.

No. 3593 Date April 30th 94.

Tanner Machine. Reel.

Turns 35 Cor. + 2 Depth 37 fms

~~Shot~~ or lead 26 lb.

Bottom Rky.

Bottom temperature 46.

No. of thermometer 66724 Cor. WNW½W

Corrected temperature

Air Surface Drift .3 miles

Trawl or dredge Ships Dredge.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.27.	10.27.45.	0	10.29.	10.42.00
		5" 100	10.31.45	10.40.00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat Log. 100.

2—571

		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 lge Barnacles — Sm Stars, and Ophiurans —
1 pt. small shells, sevl sps, including Brachiopods. Few small cup — corals and Sponges —

8 / 48-12, 122, 50, 30 West.

507.

No. 3594 Dr. Date Apr 30" 94

Tanner Machine. Reel.

Turns 34 Cor. + 0 2 Depth 36 fms

~~Shot or~~ lead 26 lb

Bottom S. X Pebb

Bottom temperature 46

No. of thermometer 66722 Cor.

Corrected temperature West

Air Surface Drift .4

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
		~~100~~ 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		

2—571

		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 Urchins -

S: 48.13.00, 122.52.36

507

FKH

No. 3595 Dr. Date April 30 94

Sarrer, Machine. Reel.

Turns 457 Cor. + 2 Depth 49 fins

Shot or lead 26 lb

Bottom Bk Gr S

Bottom temperature 45

No. of thermometer 69480 Cor.

Corrected temperature

Air 51 Surface 46 Drift

~~Trawl or dredge~~ Tangles.

Det.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		AM DOWN.	PM UP.
11.38.20	11.39.20	0	11.56.00	15-00
11.39.	11.40.00	~~100~~ 73	11 59 30	12-12-25
		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

Dis run 12 m.

Ran 3 miles while dredging

2—571

		2500		
		2600		
		2700	5245.	15
		2800	47	10
		2900	498	7
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
~~5~~ 25	46	66924		
~~15~~ 50	46	66665		
~~25~~ 100	45	69480		
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

½ bu. Sea Urchins, 12 Starfish (3 species) 1 Bryozoa, 1 Sandlance

F.K.H. 4F, 14, 30, 122, 58

507.

No. 3596 Dr Date Apr 30, 1894

Tanner Machine. Reel.

Turns 78 Cor. + 3 Depth 81 fms

~~Shot or~~ lead 26 lbs

Bottom bu M

Bottom temperature 44.5

No. of thermometer 66724 Cor.

Corrected temperature

Air Surface Drift S N ½ S 7/8 mi

Trawl ~~or dredge~~ large beam, mud bag

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	P.M. 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 ~~200~~	15-55	1-30-55
		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 1.09, in at 1.31

2—571

		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
	545	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 1 Long Cod
3 skates (2 species) 1 very large
2 herring 1 peck urchins
1 peck scallops, few small
starfish, 1 qt small shells
(several species 1 qt Shrimps
" "

507. JKH

No. 3596 Dr. Cont'd 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) ½ mi.

Trawl or dredge Tanner Intermediate

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	1-45-45	2-05-25
		40		2-00-00
		50	48-15	1-59-25
		~~100~~		
		200		
		300		
		400	Towed at a	
		500	depth of 40 fms	
		600		
		700	Hauled in	
		800	10 fms and	
		900	dropped messenger	
		1000	struck in 15 sec	
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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 sagitta & 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:

FKAH 48, 15, 123, 00

597.

No. 3597 Dr. Date Apr. 30, 1894

Tanner Machine. Reel.

Turns 64 Cor. + 3 Depth 67 fms

~~Shot or lead~~ 26 lbs

Bottom crs bk S

Bottom temperature 45

No. of thermometer 66724 Cor.

Corrected temperature

Air Surface Drift 1 mi S x W ½ W (Mag)

Trawl ~~or dredge~~ large beam mud bag

SOUNDING WIRE. PW DOWN.	UP.	TURNS.	DREDGE ROPE. PW DOWN.	UP.
2-06-10	07-55	0	2-08-05	41-45
06-40	2-06-50	100	13-40	38-10
		150		
		200	15-50	2-36-20
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
545		1200		
64		1300		
481		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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 Urchins 1/2 pk Shells (sevl sps) mostly Priene with Hermits.

1 qt. Shrimps & Prawns - 1 doz Stars 4 sps

1 Lge Naked Mollusk. 1/2 pk Scallops

507. F.K.H. 48,14 - 123,00

No. 3489 Hyd Date Apr 30, 1894

Sigsbee Machine. 2 Reel. Navy

Turns 56 Cor. + 4 Depth 60 fms

~~Shot or~~ lead 26 lb.

Bottom fne 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.
2-45-55	50-05	0		
47-00	2-49-00	100		
		200		
		300		
		400		
		500		
		600		
		700		
418 3	159	800		
56	155	900		
4127	4	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		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 page cut out on account of having incorrect records of correction tables for sounding reels.

H. C. J.

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

1 turn for 100

2 turns for 100

4 turns for 100

Turns.		Fms.		Turns.	Fms.
			2500		
66	2750	2816	111	3500	3611
			2600		
69	2800	2869	114	50	3664
			2700		
72	50	2922	117	3600	3717
			2800		
75	2900	2975	120	50	3770
			2900		
78	50	3028	123	3700	3823
			3000		
81	3000	3081	126	50	3876
			3100		
84	50	3134	129	3800	3929
			3200		
87	3100	3187	133	50	3563 ~~4083~~
			3300		
90	50	3240	137	3900	4037
			3400		
93	3200	3293	141	50	4091
			3500		
96	50	3346	145	4000	4145
			3600		
99	3300	3399	149	50	4199
			3700		
102	50	3452	153	4100	4253
			3800		
105	3400	3505	157	50	4307
			3900		
108	50	3558	159	4175	4334
			4000		

6 fms for 100

8 fms for 100

161 4200 4361

165 4250 4415

169 4300 4469

173 50 4523

177 4400 4577

181 50 4631

4 185 4500 4685

SERIAL TEMPERATURES.

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

REMARKS:

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

607.

No. H.C.J. Date 18 May 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

Correction Table Tanner Reel.

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

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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				5·36
700				2·6
800				5·62
900				1·3
1000				

REMARKS:

Measured to bottom end of stray line.

501.

Record of Bassnett Soundings

J.K.H. Off Aggitu 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 3/4	100	by hand	lead
6.31	18	200	shy	19.0
6.34	17 1/2	300	"	19.1
6.36	17	400	"	19.3
6.37.30	23	500	fne gy S shy	19.6
6.39.40	26	600	"	19.8
6.41.20	31	700	"	20.0
6.44.10	32	800	"	20.2 1/2
6.45.15	81 (?)	900	"	20.5
6.54.10	38 1/2	1000	"	20.8
6.56.25	41	1100	gy S	21.0
6.58.50	46	1200	fne gy S shy	21.3
7.01.10	36	1300	shy	21.5 1/2
7.03.03	41	1400	fne gy S shy	21.8
7.05.50	46	1500	"	22.1
7.08.20	38 1/2	1600	"	22.4
7.10.50	38	1700	shy	22.7 1/2
7.13.30	33 1/2	1800	fne gy S	23.0
7.17.40	38 1/2	1900	"	23.4 1/2
7.21.10	36	2000	shy	23.8
7.24.50	33 1/2	2100	fne gy S shy	24.2
		2200		
		2300		
		2400		

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

N½W 8'

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	NPt NNW – SxW ¾W.			
700				
800	7.10.50			
900	Mean at machine did not re-			
1000	place bottom plug of sounder.			

REMARKS:

NPt SPt.

NNW ¾W – SW½S

8
~~501~~

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

1 fy.d.

No. 3490 Date June 6th 92

Sigsbee Machine. 2 Reel. Moory

Turns 2115 Cor. + 122 Depth 2237

Shot ~~or lead~~ 235

Bottom No specimen in cup

Bottom temperature

No. of thermometer No thermo Cor. on

Corrected temperature

Air 44 Surface 40 Drift

Trawl or dredge

PM. SOUNDING WIRE. DOWN.	UP.	TURNS.	DREDGE ROPE. 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	32.45	500		
20.20	31.15	600		
22.15	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	18.50	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	8.45	2100		
45	913.10	~~2200~~ 15		
		2300		
		2400		

P. Log. 36.2

2—571

		2500		
		2600		
		2700		
		2800		
		2900	41 75	159
		3000	21 15	37
		3100	2060	122
		3200		115
		3300		237
		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. F.H.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~~ 35 lbs.

Bottom br M fne 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.	
A.M. DOWN.	A.M. UP.		DOWN.	UP.
4-32-00	59-05	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

2—571

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
2185	117
	1990
	2107

57. 54
60. 55