8th April 1897.
3d August 1897.
Hyd 3721 - 3742.
Dr 3664 - 3676.

		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:

807 RBS

No. No Station. Date April 897.

Tanner Machine. Reel.

Turns 45 Cor. + 1 Depth 46 fms.

~~Shot or~~ lead 7 lb

Bottom fine gy S.

Bottom temperature 53.0

No. of thermometer 78511. Cor. −0.3

Corrected temperature 52.7

Air 70 Surface 58 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm UP.		DOWN.	UP.
1. 3. 20	5. 00.	0		
4. 00	1. 4. 05	45 ~~100~~		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Santa Catalina Isa.

		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. MB

No. No station Date April 8 97.

Tanner Machine. Reel.

Turns 54 Cor. + 1 Depth 55 fms.

~~Shot or~~ lead 16 lb

Bottom fine gy S

Bottom temperature 52.

No. of thermometer 78511 Cor. −0.3

Corrected temperature 51.7

Air 70 Surface 58 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
PM DOWN.	PM UP.		DOWN.	UP.
1.17.40	19.12	0		
18.20	1.18.25	~~100~~ 54		
		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:

507. SRS.

No. 3664 D2 Date April 8 '97.

Tanner Machine. Reel.

Turns 79 Cor. + 1 Depth 80 fms.

~~Shot or~~ lead 26 lb

Bottom Fine gy S.

Bottom temperature 50°

No. of thermometer 78511 Cor. -0.3

Corrected temperature 49.7

Air 70 Surface 58 Drift

Trawl ~~or dredge~~ 11 ft beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm UP.		Pm DOWN.	Pm UP.
1 28.50	31.00	0	1 31 30	57.50
29.45	1 29 47	79 ~~100~~	36 04	53.45
		150 ~~200~~	38.45	1.51.40
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

2 miles off Acacon

Santa Catalina Id.

		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		Caught		
500				
600	1 large soft star, not cared			
700	1 Holothurian			
800	1 Naked Mollusk			
900	1 Worm			
1000	1 Young Hermit Crab			

REMARKS:

1. Red Sculpin
2 lge Flounders 2 sp.
Many Urchins, 2 sp.
1 lge shell, dead
few sm Flounders
Several sm Sculpins
2 Alligator Fish
1/2 doz Young Red Rock Fish

Small shells, tryozoa, coral &c.
few sm shrimps
1 Young Butter Fish
1 Spider Crab, very sm
1 pc Pinna Branchiid Coral
1 short arm soft star
Several Hard stars
Skate Egg cases

507. SRS.

No. 110 Station. Date April 1897

Tanner Machine. Reel.

Turns 160 Cor. + 2 Depth 162 fms.

~~Shot or lead~~ 36 lb.

Bottom fine gy S.

Bottom temperature 47°

No. of thermometer 78511 Cor. −0.3

Corrected temperature 46.7

Air 71 Surface 58 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Fm DOWN.	Fm. UP.		DOWN.	UP.
2-11.50	17.50	0		
13.10	15.40	100		
14.10	2-14.15	160 200		
		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:

507. SRS

No. No Station. Date April 8 '97

Tanner Machine. Reel.

Turns 79 Cor. + 1 Depth 80 fms.

~~Shot or~~ lead 26 lb

Bottom Fuegy Sobrinos Ch

Bottom temperature 50°

No. of thermometer 78511 Cor. -0.3

Corrected temperature 49.7

Air 72 Surface 59 Drift

Trawl or dredge 11 ft beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm UP.		DOWN.	UP.
2.22.43	2500	0	2.26.00	50.12
23.32	2.23.35	(79.) ~~100~~	30.30	46.20
		(150.) ~~200~~	33.20	2.43.45
		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:

507. JKH

No. 3721 Hyd. Date April 9. 1897.

Tanner Machine. Reel.

Turns 76 Cor. + 1 Depth 77

~~Shot~~ or lead 26 lbs.

Bottom Rky

Bottom temperature

No. of thermometer _____ Cor.

Corrected temperature

Air 67 Surface 59 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
am DOWN.	am UP.		DOWN.	UP.
9.46.30	49.05	0		
47.35	9.47.40	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

33 17 20 N
118 24 40 W

		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600	530	5
		3700	76	
		3800	454	
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Weights and Sex of Rockfish			
50	1st haul	7 3½	7 4½	2
100	2d	7 5½ m 7½	7 5 m 8	4
200	3d	7 6½ m 6¼	7 8	3
300	4th	7 5 m 4½	7 4	3
400	5th	m 4½	(1 lost)	1
500				13
600	following lengths are 3 inches too much.			
700	Lengths.			
800	26" 25	26 25 26	20½	27 23 23
900	25 27	27½ 27		
1000	stomach contents. 1 saved			

REMARKS:

1 line over at 9.50, 1 at 10.00
135 fms reached at 2nd sounding at 10.05 a.m.
Hauled in both lines at 10.00 and put two over at 10.20, another at 10.35, another at 10.45 another at 10.55, 5 in all.
Hauled them in at 11.15; caught 13 rockfish and 2 dog fish.

507. BRH

No. 3721a Hyd. Date Apr. 9, 1897

Tanner Machine. Reel.

Turns 130 Cor. + 2 Depth 132

~~Shot or~~ lead 26 lbs.

Bottom Rky

Bottom temperature

No. of thermometer ——— Cor.

Corrected temperature

Air 72 Surface 60 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
am. 11.34.50	38.45	0		
35.50	36.50	100		
36.15	11.36.20	130 ~~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

Near preceding position.

Pinniger					Elongatus			
8	24"	m.	yes	2500	3	21	f	nit.
8 lbs.	21"	f.	nit	2600	4	23	f	nit.
10 "	24"	f	"	2700	3	21	f	"
5	20	f	"	2800	2½	21	f	"
9	24	f	"	2900	4½	26	f	"
7	21	f.	"	3000	4	23	m	"
6	21	m	"	3100	3½	22	f	"
7	21	m	"	3200	4½	23	f	"
8	22	m	"	3300	6½	24	f	"
6	21	m	"	3400	33.5	23		
7	22	m	"	3500				
6½	22	m	"	3600				
5	20	f	"	3700				
5	20	m	"	3800				
5	20	f.	"	3900				
6	20	m	"	4000				
108.5	23							

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Weights + Sex of Rockfish			
50	1st haul			1
100	2d "			1
200	3d "			3
300	4th "			3
400	5th "			5
500	6th "			3
600	7th			3
700	8th			3
800	9th			5
900	10th			4
1000				

REMARKS:

5 lines over at 11.40

Took in hand lines at 12 & 21 P.M.

507. SRS

No. 3665 D — Date April 9th 1897

Tanner Machine. Reel.

Turns 58 Cor. + 1 Depth 59 fms

~~Shot or~~ lead Hlb

Bottom fine gy S.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature

Air 76 Surface 61 Drift

Trawl ~~or dredge~~ 11 ft

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm UP.		Pm DOWN.	Pm UP.
12.42.30	44.20	0	12.52.30	24.15
43.20	12.43.25	59. ~~100~~	58.35	19.15
		120 ~~200~~	59.30	
		150 ~~300~~	1.07.10	1.16.30
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Off Santa Catalina Id

Near preceding position.

Approx. pos^n
33°17'N. 118°24'W.

		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		Caught: —		
50		3 doz. Sm Flounders, 2 or 3 sp: several Flounder Jrs.		
		1. Sculpin, several sm Sculpins, several sp.		
100		3 Alligator Fish.		
		Many Urchins, 2 sp. 2 sm Urchins.		
200		Several Red Holothurians.		
		1 hard warty Holothurian.		
300		1/2 doz Young Red Rock Fish.		
		1 Smooth Ray		
400		1 small Octopus		
		2 doz sm Hard Stars, 3 species.		
500		1/2 " " Shrimps.		
		1 Sge Worm and Tube.		
600		2 Sea Spiders		
		2 Naked Mollusks.		
700		1 sm Naked Worm, resembles a leach.		
		1 sm Ophiurian.		
800				
900				
1000				

REMARKS:

Towed six min. at 120 fms.

S/
507.

No. Date Apr 13" 97

Tanner Machine. Reel.

Turns 48. Cor. + 1 Depth 49 fms

~~Shot or~~ lead 26 lb.

Bottom Bk Br M.

Bottom temperature 49°

No. of thermometer 78511 Cor. -0.3

Corrected temperature 48.7

Air 64 Surface vel Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Aug 9.09 30	910.45	0		
10.00	10.15	48 ~~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	J 30	J
		3000	+8	
		3100	482	
		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:

MY

8.
507.

No. Date Apr 13" 97

Tanner Machine. Reel.

Turns 104 Cor. + 1 Depth 105 fms.

~~Shot or lead~~ 26 lb.

Bottom Bk & br Mo.

Bottom temperature 47.

No. of thermometer 78571 Cor. -0.3

Corrected temperature 46.7

Air 64 Surface 52 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.23.10	25.30	0		
24.15	24.30	100		
24.20	9.24.25	104 ~~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	N-30	V-
		2900	104	4
		3000	426	1
		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.

No. Date Apr 13 1897

Tanner Machine. Reel.

Turns 110 Cor. + .1 Depth 111 fms

~~Shot or~~ lead 26 lb

Bottom Dk. Br M.

Bottom temperature 47°

No. of thermometer 78571 Cor. -0.3

Corrected temperature 46.7

Air 64 Surface 54 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am DOWN.	UP.		DOWN.	UP.
9.36.00	9.40.00	0		
38.00	38.20	100		
38.10	9.38.15	110		
		~~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	130	5
		2900	110	4
		3000	420	
		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:

MH

507.

No. Date April 13" 1897

Tanner Machine. Reel.

Turns 47 Cor. + 1 Depth 48.7 ms

~~Shot or lead~~ 26 lbs

Bottom Dk Br Mo

Bottom temperature 49°

No. of thermometer 78551 Cor. -0.3

Corrected temperature 48.7

Air 64 Surface 55 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Am. 10.10.00	11.50	0		
11.00	10.11.10	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	C30	
		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.

No. Date Apr 13" 1897

Tanner Machine. Reel.

Turns 66 Cor. + 1 Depth 67 fms

~~Shot or~~ lead 26 lb

Bottom Fn M. Bk Sh 7.5

Bottom temperature 48°

No. of thermometer 78511 Cor. -0.3

Corrected temperature 47.7

Air 62 Surface 55 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.27.30	29.15	0		
28.30	10.28.40	66 ~~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	530	5
		2900	66	4
		3000	464	1
		3100		66
		3200		67
		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:

N. G.

507.

No. 3666 ~~D~~ Date Apr 13" / 897.

Tanner Machine. Reel.

Turns 67 Cor. + 1 Depth 68 fms

Shot ~~or lead~~ 35 lb + Specimen Cup

Bottom gn m + S Blds.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 64 Surface 55 Drift

Trawl ~~or dredge~~ 11 ft

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.34.00	36.10			
35.00	35.00	67	10.55.30	17.00
		~~100~~	11.01.30	11.20
		120 ~~200~~	02.00	11.10.00
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

1 36 45 30 N
121 53 00 W

		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	Scattering boulders over			
300	bottom. Rock size of barrel			
400	brought up in net.			
500				
600	4 Rat fish, 3 Red Rock Fish			
700	2 Cultus Cod, 1 S Kate			
800	1 Sea Anemone, 3 Sm Flounders			
900	1 Crawn, 1 Doz Shrimps 2 Sp.			
1000	1 Doz Young Rock fish.			

REMARKS:

2 Sm Holothurian 2 Sp.
1 " Crab, 1 Hermit Crab,
Several Small Shells, 8 Sp.
Cup Coral. Norm's Tubes & many.
1 Small Crustacean, 2 Sm Octopii
3 Stars, 3 Sp Sm.
1 Tot Spec from Net
1 " " " Cup.

507. 5.68 F.K.H.

No. 3667 D Date Apr. 13" 1897

Tanner Machine. Reel.

Turns 89 Cor. + 1 Depth 90 fms

~~Shot or lead~~ 26 lb.

Bottom Gn M, Gro. & Gy S. Cr.

Bottom temperature 48°

No. of thermometer 78571 Cor. -0.3

Corrected temperature 47.7

Air 64 Surface 55 Drift

Trawl ~~or dredge~~ 11 ft

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.50.00	53.00	0	11.53.15	24.30
57.00	11.57.10	89 ~~100~~	59.00	19.50
		180 ~~200~~	12.03.45	12.15.45
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

√ 36° 44' 52" N
121 51 50 W

		2500		
		2600		
		2700		
		2800	530	5
		2900	89	4
		3000	441	1
		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:

Net badly torn. Scattering boulders on bottom
8 small Red Rockfish, 3 sp.
2 Urchins, broken, not saved.
1 Eel pout, 1 Holothurian
1 small Octopus, 1 small Nemerter
Bottom spec. from net.

No. 3722 Hyd. Date April 13, 1897.

Tanner Machine. Reel.

Turns Cor. + Depth 45 fms.

~~Shot or~~ lead 26

Bottom gy. S. M.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature

Air Surface Drift —

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
fm. DOWN.	UP.		DOWN.	UP.
12-44-00	12-45-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

36° 44' 30" N
121° 51' 50" W

		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	1.12			

REMARKS:

Put 10 hand lines over at 12.45 P.M. for 27 min. Caught nothing.

45 fms.
gy. S.M.

507.

No. Date Apr. 13, 1897

Tanner Machine. Reel.

Turns 42 Cor. + 1 Depth 43

~~Shot or~~ lead 26 lbs.

Bottom gy s M.

Bottom temperature 49.5

No. of thermometer 78511 Cor. -0.3

Corrected temperature 49.2

Air 57 Surface 56 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
PM 2-05-55	PM 2-07-30	0		
06.30	06.25	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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:

571.

No. 3148 D. Date April 12, 1897.

Tanner Machine. Reel.

Turns 39 Cor. + —— Depth 39

~~Shot or~~ lead 26 lbs.

Bottom S. Mica.

Bottom temperature 49.0

No. of thermometer 78571 Cor. −0.3

Corrected temperature 48.7

Air 57 Surface 56 Drift

Trawl ~~or dredge~~ Iq beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M. 2.20-10	P.M. 2.22.50	0	P.M. 2.38.20	P.M. 3.00.45
21.00	2.21.05	80 ~~100~~	44.20	2.55.50
		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

✓36 39 30 N
121 53 00 W

		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	1 large fine Sole,			
1000	1/2 Dogfish " "			

REMARKS:

3 " Shrimps.
2 Shells. 2 sp.
1 Parsite Crustacean.
1 Small fish
1 Ophuridan broken not saved
Inner net fouled over
brick rope

507 SRS T.K.S.

No. 3669 Dr Date April 16 97

Tanner Machine. Reel.

Turns 275 Cor. + 3 Depth 278 fms

~~Shot or~~ lead 26 lb

Bottom gn M & fine S.

Bottom temperature 43°

No. of thermometer 78571. Cor. −0.3

Corrected temperature 42.7

Air 55 Surface 57 Drift

Trawl ~~or dredge~~ Ige beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm UP.		P.M. DOWN.	UP.
3.32.20	40.45	0	4.20.00	5.29.00
33.35	38.50	100	25.00	23.30
34.40	36.55	200	28.10	20.00
35.20	3.35.30	275 300	31.30	16.00
		400	34.30	12.30
		500	38.00	06.50
		600	4.48.00	5.02.30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Plug 01.9

2—571

✓ { 36 47 00 N
122 11 00 W

		2500		
		2600		
		2700		
		2800		
		2900		
		3000	030	5
		3100	275	2
		3200	305	
		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. J.R.H. S.R.S.

No. 3670 Dr. Date Apr. 17, 1897.

Sigsbee Machine. Reel. Navy No. 2

Turns 542 Cor. + 39 Depth 581

Shot ~~or lead~~ 35 lbs., lashed to cup

Bottom gn M. S.

Bottom temperature 38.0

No. of thermometer 78511 Cor. -0.2

Corrected temperature 37.8

Air 58 Surface 54 Drift

Trawl ~~or dredge~~ 11 ft beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
am 10.21.15	37.00	0	am 11.11.05	Pm 12.45
22.35	35.55	100	14.35	08.10
23.40	34.55	200	17.20	1.03.30
24.37	33.50	300	19.45	58.40
25.45	32.40	400	21.55	53.20
27.20	31.15	500	24.55	47.00
28.05	10.30.25	~~600~~ 542	28.20	36.50
		700	31.25	27.00
		800	34.40	21.40
		900	38.55	16.10
		1000	44.10	12.10.50
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

36° 42' 45" N
122 12 00 W

2500			
2600			
2700			
2800			
2900			
3000			
3100	4159	157	
3200	542	118	
3300	3617	39	
3400		542	
3500		581	
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.

No. 3671 Date Apr. 21st 97.

Tanner Machine. Reel.

Turns 55 Cor. + 1 Depth 56 fms

~~Shot or~~ lead 26 lb.

Bottom gn M + S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 50 Drift

Trawl ~~or dredge~~ 11 ft. beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.34.30	9.36.10	0	10.42.30	11.17.00
35.30	35.40	~~100~~ 55.	52.30	11.06.10
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

R. Cod 26.2.

2—571

37 00 30 N
122 20 30 W

		2500		
		2600		
		2700		
		2800	530,	5
		2900	55	
		3000	475	
		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.

No. 3723 Hyd. Date Apr 22, 97

Tanner Machine. Reel.

Turns — Cor. + — Depth 26.

~~Shot or~~ lead 26 lb.

Bottom 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.
am 8-33-00	8-34-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

36° 56' 30 N 122° 09' W.

		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:

11 handlines over at 8.55 AM.
2 " " " 8.45 "
In at 9.07, caught 2 flounders

13 hand lines for 30 minutes.
26 fish. gy. S.

~~501~~ S.R.S.

No. 3672 D. Date April 24th 1897

Tanner Machine. Reel.

Turns 67 Cor. + 1 Depth 68 fms

~~Shot or~~ lead Hills

Bottom gn. ~~Mud~~ Co. Seat. R.

Bottom temperature 49°

No. of thermometer 78511 Cor. —

Corrected temperature 49

Air 56. Surface 49. Drift

Trawl ~~or dredge~~ 11 ft beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am. DOWN.	Am. UP.		Am. DOWN.	Am. UP.
10.9.50	.12.15	0	10.39.20	.18.30
.10.55	10.11.00	(67) ~~100~~	.45.00	.10.50.
		(130) ~~200~~	.47.10	11.08.30.
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

37 37 30 N
123 02 15 W

		2500		
		2600		
		2700		
		2800		
		2900		
		3000	530	5
		3100	67	
			460	
		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:

S.

Fishing Station

No. 3724 Hy- Date Apr 22" 97

Tanner Machine. Reel.

Turns — Cor. + — Depth 68 fms

Shot or lead

Bottom E + Co. + Seat Rts.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 56 Surface 49 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
pm. 1-05-00	1-06-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Same as Dr Sta. preceding 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				

12 Land lines over for 17"

REMARKS:

Caught Q Red Rock Fish.

~~507.~~ S. Fishing station

No. 3725 Hy. Date Apr. 24 97

Tanner Machine. Reel.

Turns — Cor. + — Depth 45 fms, ms

~~Shot or~~ lead 26 lb.

Bottom Sky.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 60 Surface 51 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
pm. 1.25-00	1-26-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

37 41 00 N
123 03 00 W

		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				

P.M.

REMARKS:

1.26 - Put over 12 hand lines, in at 1-03. Caught - 2 Rock Fish.

507. E. Fishing Station

No. 3726 Hyd. Date Apr 24" 97.

Tanner Machine. Reel.

Turns — Cor. + — Depth 50 fms.

~~Shot or~~ lead 26.

Bottom rky.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 60 Surface 57 Drift

Trawl or dredge

P.m. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-10-00	2-11-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

37° 41' 00" N
123 03 40 W

	2500		
	2600		
	2700	VBU.	V.
	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:

P.M.
at 2.10 Put over 1/2 hand lines
in at 3.40 Caught 4 Rock
fish and 1 Dog fish.

Fishing Station

No. 3727 Hyd. Date Apr. 24. 97

Sounder Machine. Reel.

Turns — Cor. + — Depth 30-40.

~~Shot or~~ lead 26 lbs.

Bottom Sky.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M. 4-25-00	4-25-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

37° 40' 45" N
122 59 45 W

		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				

Average 12 lines 1 hr. 46 min.

REMARKS:

Set over 6 handlines at 4.25 PM. in 30 fms., 4 more at 4.40, 2 at 4.50. Hauled in 10 lines at 5.30. At 6.00, had 9 lines out. All lines in at 7.00

Caught 15 Rockfish
1 Halibut
1 Flounder
1 Cultus Cod
1 Lge Sandoor Skate

507. S.R.S.

No. 3673 Dr. Date May 14 97.

Tanner Machine. Reel. —

Turns 76 Cor. + 1 Depth 77 fms.

~~Shot or~~ lead 26 lb

Bottom gn M & S.

Bottom temperature 45°

No. of thermometer 78511. Cor.

Corrected temperature

Air 54 Surface 47 Drift

Trawl ~~or dredge~~ 11 ft beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am. DOWN.	Am. UP.		Am. DOWN.	Am. UP.
9.38.12	40.10	0	9.42.40	11.40
39.00	9.39.10	(76) ~~100~~	47.30	07.30
		(150) ~~200~~	50.20	10.05.10
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

48° 21' 45" N.
124° 50' 30" W.

		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. Barn Door Skate 8 lb not saved.
1. Large Flounder, young shrimp in Stomach
4. Chimiacra, 2 saved.
2. Sm Alligator Fish.
2 Flounder Fry
1. Sm Fish.
1. Young Squid.
Several shells, few with Hermit.
Few Hermit
Several very small crabs, 2 rials
Several shrimps & Prawns, Several Ophiuroids
Few fragment Sponge. 1 lge 10 ft multiarm Star not saved.

Arts. Fishing Station.

No. Hy. 3728. Date June 25th 1897

Machine. Reel.

Turns Cor. + Depth 23 ~~f~~ fms.

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 66 Surface 57 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		

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:

At 4.58 PM put over 16 hand lines.
in at 5.16 pm: Caught 1 Halibut 17 lbs.

S.R.S.

507. Fishing Station

No. Same no. & pos. Date June 25th 1897.

Machine. Reel.

Turns Cor. + Depth 25½ fms.

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 66 Surface 57 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		

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:

At 5.31 P.M. put over the hand line, and at 5.54 p.m. Caught nothing.

507. S.Rt.

NG

No. Date July 10 '97

Tanner Machine. Reel.

Turns 95 Cor. + 1 Depth 96

~~Shot or lead~~ 26 lb.

Bottom - Gregg S Pet.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am. DOWN.	UP.		DOWN.	UP.
8. 30	33.10	0		
31 25.	8.31.29.	(95) ~~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:

507. [illegible]

No. Hy. 3729. Date July 10th 1897

Tanner Machine. Reel.

Turns 48 Cor. + Depth 48 fms

~~Shot or~~ lead 26 lb

Bottom fine gy C & Pet.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am DOWN.	Am UP.		DOWN.	UP.
8 42.15	43.35	0		
42.40	8.42.42	48 ~~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:

At 8.43 put over 16 hand lines for 43 minutes. Caught 1 Halibut 45 lbs. and 1 Red Rock Fish 22 lbs.

507.

No. Same pos + no. as preadg. Date July 10th 97

Tannan Machine. Reel.

Turns 26 Cor. + Depth 26 fms

~~Shot or~~ lead 26 lbs.

Bottom fne gy S + pb

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.06. 30	58.10	0		
57. 30	9 58.05	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:

At 10.00 put over 14 hand lines for 1:30" Caught. 66 Holibut on deck —
Caught 22 - Holibut. Dory 3 lines
" 44 - " Flat boat 4 lines.

507. ARS.

No. NG. Date July 10. 1897

Tanner Machine. Reel.

Turns 87 Cor. + 1 Depth 88 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.	
Am DOWN.	UP.		DOWN.	UP.
11.59.40	01.30	0		
12.00.15	12.00.20	~~100~~ 87		
		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:

507. S.R.S.

No. 3674 D. Date July 19. 1897.

Tanner Machine. Reel.

Turns 31 Cor. + Depth 31 fms

Shot or lead 26 lbs

Bottom gy S. & Sh.

Bottom temperature 46°

No. of thermometer 62358 Cor.

Corrected temperature

Air 55 Surface 50 Drift

Trawl or dredge 11 ft beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am DOWN.	Am UP.		Am DOWN.	UP.
8.29.10	8.29.50	0	8.33.00	8.55.00
29.25	29.27	(75) ~~100~~	37.15	8.52.30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Plug - not over

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		Caught		
300	Pecten with sponge attached,			
400	Numerous Gastropods. Hermit & other			
500	Crabs. 3 Starfish. 2 Sea Urchins:			
600	Some coral. 2 Rays. 5 Flounder,			
700	6 Cottoids. 3 Agonids. 1 Blenny:			
800				
900				
1000				

REMARKS:

FLATTERY BANK

507. S. ARS.

No. 3678 Dr. Date July 19th 1897

Tanner Machine. Reel.

Turns 109 Cor. + 1 Depth 110 fms.

~~Shot~~ or lead 26 lb

Bottom gr. Mud.

Bottom temperature 39°

No. of thermometer 62358 Cor.

Corrected temperature

Air 54 Surface 50 Drift

Trawl ~~or dredge~~ 11 ft beam.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am. DOWN.	UP.		Am. DOWN.	UP.
9.27.05	30.30	0	9.30.30.	06.30.
28.20	28.50	100	34.40	10.02.35
28.29	9.28.35	~~200~~ 109	40.25	58.23
		~~300~~ 220	41.25	9.57.20
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

P. log = not over

2—571

		2500		
		2600		
		2700		
		2800		
		2900	530	5
		3000	109	
		3100	421	
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200		Caught		
300				
400	Starfish, Hermit Crabs, Shrimps.			
500	Crabs, Ophiuroids.			
600	Gastropods.			
700	Lamellibranchs very few.			
800	few worms. some barnacles.			
900				
1000	3 Lypodids. 3 smells 5 Carpocks.			

REMARKS:

507 ARA

No. 3676 D — Date July 19 97

Tanner Machine. Reel.

Turns 120 Cor. + 2 Depth 122 fms

~~Shot or~~ lead 26 lbs

Bottom gn ms

Bottom temperature 39°

No. of thermometer 62358 Cor.

Corrected temperature

Air 54 Surface 50 Drift

Trawl or dredge 11 ft beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am DOWN.	Am UP.		Am DOWN.	Am UP.
10 54.00	57.20	0	10.57.00	40.35
55.00	55.29	100	11.01.50	33.25
55.10	10.55.20	120 ~~200~~	06.15	26.10
		(240) 300	08.10	11.23.50
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Log: 99.2

2—571

		2500		
		2600	530	5
		2700	120	
		2800	410	
		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		Caught: —		
500	12 Basket Starfish. 2 Sea Pen			
600	large Shrimp numerous: 4 Red			
700	Rockfish: 1 Skate: 4 Lycodides:			
800	1 Cottoid. 6 Worms!			
900				
1000				

REMARKS:

507.

No. 3730 Dy. Date Aug 2nd 1897

Tanner. Machine. Reel.

Turns 27 Cor. + Depth 27 fms

~~Shot or~~ lead 26 lb

Bottom Rky

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 59 Surface 50 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm. UP.		DOWN.	UP.
2.33.30	34.30	0		
33.50	2.33.55	27 ~~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. log 12.6

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:

507. NRS

No. 3731 Hyd. Date Aug. 2nd 1897

Tanner Machine. Reel.

Turns 56 Cor. + 1 Depth 57 fms

Shot or lead 26 lb

Bottom gn M & fne S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 55 Surface 49. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Thr DOWN.	Thr UP.		DOWN.	UP.
3.10.03.	11.35	0		
10.45	3.10.48.	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Plug = 1577

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:

507. SRS

No. 3732 Hyd. Date Aug 2nd 1897

Tanner Machine. Reel.

Turns 35 Cor. + Depth 35 fms

~~Shot or~~ lead Hlb

Bottom gn M & Coral.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 55 Surface 49 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm UP.		DOWN.	UP.
3.57.15	52.22	0		
57.42	3.57.45	~~100~~ 35		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Plug 19.2

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:

507.

No. 3722 [illegible] Date Aug. 2d 97

Tanner Machine. Reel.

Turns 73 Cor. + 1 Depth 74 fms.

~~Shot or~~ lead 26 lb.

Bottom Gn M & Bk. Spk.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 48. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M.	P.M.			
4.40.50	4.42.30	0		
4.41.25	4.41.35	~~100~~ 73		
		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	530	5
		2900	73	4
		3000	457	
		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.

A. S.

No. 3734 Date Aug 2d 97

Tanner Machine. Reel.

Turns 50 Cor. + 1 Depth 51 fms

~~Shot or~~ lead 26 lb.

Bottom Rky.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 48. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	P.M. UP.		DOWN.	UP.
6.00.05	01.10	0		
00.30	6.00.40	50 ~~100~~		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

P. Log 31.2

2—571

		2500		
		2600		
		2700		
		2800		
		2900	530	5
		3000	50	4
		3100	480	1
		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:

Atkulik Id N 1/2 W (mag) dist. 3.6 m

Course N E 1/4 E (mag) p.l. 31.2

K Aghiyuk I N E by E 1/4 E (mag)

X " " E N E 1/2 E "

507.

No. 3735 Date Aug 2d 97

Tanner Machine. Reel.

Turns 67 Cor. + 1 Depth 68 fms

Shot or lead 26 lb

Bottom fn M + fne S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 48 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Pm 6.32.50	Pm 6.35.00	0		
33.50.	33.55	67 ~~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. Log 247

2—571

	2500		
	2600		
	2700	530	5
	2800	67	4
	2900	462	1
	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:

3½ mi NE½E from preceding position.

Note: All points of land are undetermined - bearings useless for plotting on chart.

507.

No. 3726 Date Aug 2d 97

Tanner Machine. Reel.

Turns 79 Cor. + 1 Depth 80 fms.

~~Shot or lead~~ 26 lb.

Bottom gr M & fne S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 48 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M. 7.02.25	P.M. 04.30	0		
03.30	7.03.40	~~100~~ 79		
		200		
		300	mistake	
W. End sounding E NE 1/2 E		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	NEU	U
		2800	79	4
		2900	40 1	
		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:

3½ mi NE¼E (mag) from preceding pos.

No pos could be obtained.

507. SRS

No. 3726 Hyd. Date August 2nd 1897.

Tanner Machine. Reel.

Turns 65 Cor. + 1 Depth 66 fms

Shot or lead 26 lb.

Bottom gn M.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 54 Surface 50 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Am DOWN.	Am UP.		DOWN.	UP.
8.01.50	03.20.	0		
02.30	8.02.32	~~100~~ 65		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Plog 45.5

2—571

		2500	6	1
		2600		
		2700		
		2800	530	5
		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:

7.3 mi N E 1/4 E from preceding.

Bearings Latitude (Mag.)
Foggy Cape N by E 3/4 E
Atkulik I. S by W 5/8 W
N End Aghinguk I E by N 1° E

507. SRS

No. 3728 Sig. Date Aug 2nd 1897

Sauner Machine. Reel.

Turns 94 Cor. + 1 Depth 95 fms

~~Shot or~~ lead 26 lb

Bottom gn M.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 50 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Fm DOWN.	Fm UP.		DOWN.	UP.
9.00.05	02.15	0		
01.00	9.01.02	94 ~~100~~		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Flog 57.6

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:

7.1 mi N E 1/4 E (mag) from preceding.

Bearings. (Mag)
Foggy Cape N 3/8 E
Atkulik Rk. S W x W 1/4 W
N End Aghiyuk I E 1/4 S

507. [illegible]

No. 3739 [illegible] Date August 2nd 1897

Tanner Machine. Reel.

Turns 75 Cor. + 1 Depth 76 fms

~~Shot or~~ lead 2 lbs

Bottom gn M

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 49 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Pm UP.		DOWN.	UP.
10.00.00	01.35	0		
00.50	10.00.55	75 ~~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. Log = 60.6

		2500	[illegible]	E
		2600		
		2700		
		2800	530	S
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	#	At 10.15	Foggy Cape	
50	bore abeam	NW 1/4 N mag. dist.		
100	10 miles by bow & beam bearings			
200	and the N point of Aghiyuk			
300	bore SE 1/4 E dist also 10 miles			
400	by the same method.			
500	Changed course to N 28° E			
600	mag. (N 45° E true) for			
700	Karluk Head. and con-			
800	tinued line of soundings.			
900				
1000				

REMARKS:

8 mi NE 1/4 E from breaking.

Bearings: (mag)

Foggy Cape NNW 5/8 W

Akulik I SW by W

Aghiyuk I SE 5/8 E

see note above.

507. SRS

No. [illegible] Date Aug 2nd 1897

Tanner Machine. Reel.

Turns 100 Cor. + 1 Depth 101 fms

Shot or lead 26 lb

Bottom gn M

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 51 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Pm DOWN.	Am UP.		DOWN.	UP.
11.58.00	12.01.00	0		
.59.00	11.59.05	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

P. Log 76.8

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:

507. P. L. B.

No. 3738 [illegible] Date Aug 3d 97.

Tanner Machine. Reel.

Turns 106 Cor. + 1 Depth 107 fms

~~Shot or~~ lead 26 lb

Bottom Gr M.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 54 Surface 52 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Ave	Ave.			
1.59.30	2.02.05	0		
2 00.35	00.55	100		
00.40	2 00.45	106 ~~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 93.7

2—571

		2500		
		2600		
		2700		
		2800	V-30	V-
		2900	106	
		3000	424	
		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.

No. 37-42 Date Aug 3d 97

Tanner Machine. Reel.

Turns 162 Cor. + 2 Depth 164 fms.

~~Shot or~~ lead 26 lb.

Bottom gr. M.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 54. Surface 51. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Aug	Aug			
3.56.50	4.01.30	0		
58.15	4.00.00	100		
59.00	3.59.15	162 ~~200~~		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

11.5

2—571

V30.V
162.3
388 2

$\sqrt{30}$, $\sqrt{\ }$

$\frac{109}{4.2}$ 93.7

109 + 1 = 110

93.7

2.62.05

1.59.30

0.03.35

1.62.65

60

12

9.27.05

9.30.30

26.50

2.02.05 = 20

1.59.30

10.35

120

1.27.05

65

1.40

Smith
Vfm.

Hfm
Hfm Hfm Hf

530.5
106
4
42

45.6
16.9
4.7
66.5
130
64.

106
1
107